



CURRICULUM VITAE

ALI HASSAN ABDULRAHMAN BAHKALI

Prof. of Physiological Fungal Ecology



Department	Botany and Microbiology Department
College of	Science
Name	Ali Hassan Abdul-Rahman Bahkali,
Nationality	Saudi
Current Academic Rank	Professor

Academic Degrees:

B.Sc. (B.Sc. Botany – Chemistry)

University	King Saud University
College	College of Science
University Location	(City/State/Country: Riyadh, Saudi Arabia
Date of Obtaining Degree	19/8/1392 Hijra - 26/9/1972 Gregorian

Ph.D.

University	University of Wales
College	University College of Swansea
University Location	Swansea, United Kingdom
Date of Obtaining Degree	15/6/1403 Hijra 29/3/1983 Gregorian
Title of Ph.D. Dissertation	"Studies of the Pectic Enzyme Complex Produced by <i>Verticillium</i> Species.
Advisor's Name	Dr. J.M. Milton
Applicant's Major and Minor	Physiological Fungal Ecology

EMPLOYMENT HISTORY (IN DESCENDING ORDER-LAST GIVEN FIRST):

- Head of Botany and Microbiology, Dept., College of Science, King Saud University, 2007 to 2011.
- **Editor in Chief of Saudi Journal of Biological Sciences, 2003 to 2013**
- Professor: Botany and Microbiology, Dept., College of Science, King Saud University, 2000 to date.
- Associate Professor: Botany and Microbiology, Dept., College of Science, King Saud University, 26-9-1993 to 2000.
- Assistant Professor: Botany and Microbiology, Dept., College of Science, King Saud University, 17-8-1983 to 26-9-1993.
- Scholarship Student: 17-7-1973 – to 16-8-1983
- Demonstrator: Botany Dept., College of Science, King Saud University, 26-9-1972- to 17-7-1973.

SCHOLARSHIPS AND AWARDS

- King Saud University Scholarship (1973-1983)
- Lifetime Achievement Award (1436/1435H) from King Saud University Award for Scientific Excellence.
- Research Quality Award (1433/1434H) from King Saud University Award for Scientific Excellence.
- Highly Cited Researcher of 2018 from Web of Science Group
- Highly Cited Researcher of 2019 from Web of Science Group.
- Highly Cited Researcher of 2020 from Web of Science Group.
- Highly Cited Researcher of 2021 from Web of Science Group.



Web of Science



2018 HIGHLY CITED RESEARCHER

presented to

Ali Bahkali

In recognition of exceptional research performance demonstrated by production of multiple highly cited papers, those that rank in the top 1% by citations for field and year, in

Plant and Animal Science

Annette Thomas
CEO, Web of Science Group
Clarivate Analytics

Date November 27, 2018



Highly Cited Researcher 2019

presented to

Ali Bahkali

in recognition of exceptional research performance demonstrated by production of multiple highly cited papers that rank in the top 1% for field and year in Plant and Animal Science



Signed Mukhtar Ahmed, President
Date 19 November 2019

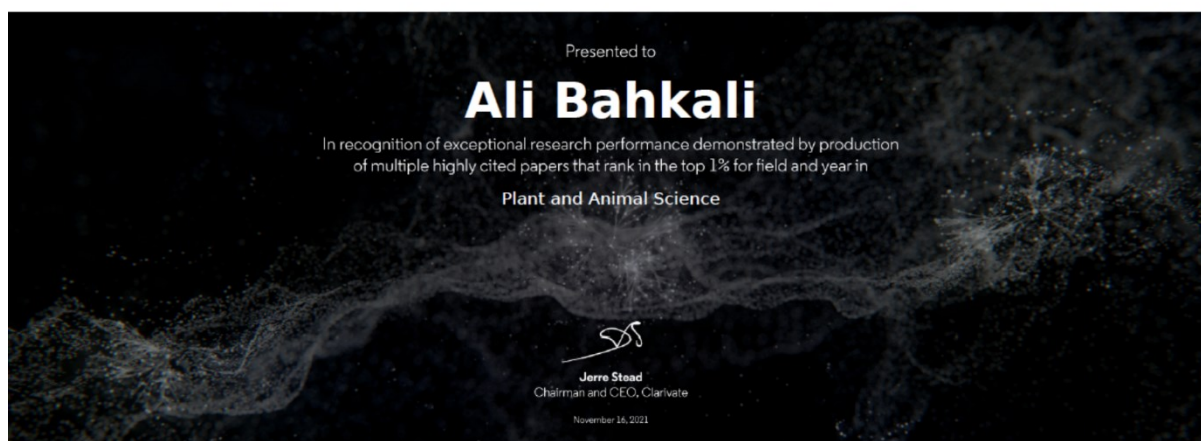
A Clarivate Analytics company



Highly Cited Researcher 2020



Highly Cited Researcher 2021



PARTICIPATION IN CONFERENCES, SYMPOSIA AND OTHER ACTIVITIES

CONFERENCES

- The First Arab Gulf Conference on Biotechnology and Applied Microbiology, Riyadh, Saudi Arabia. 12-15, November, 1984. The Participation was by attending the sessions.
- The Sixth Joint Saudi-Japanese Conference on Biotechnology and Membrane Separation. Held on December, 5-6-1998, at King Abdulaziz city for Science and Technology (KACST) Riyadh, Saudi Arabia. The Participation was by giving talk on cellulolytic and pectolytic enzymes of *Colletotrichum lindemuthianum* and *Verticillium tricorpus*, specificities of production and influence of various carbohydrates.
- EPS Global Shenzhen Internaional High-Technology from February 25-26, 2011.
- CBS Symposium Fungus: Which Name (1F:~N). CBS, Netherland, From April 12-13, 2012.

SYMPOSIA

- I have attended the annual symposia of the Saudi Biological Society from 1989-1999. Nine Papers were presented.
- Co-Chairman of the Microbiology Session of the Twelfth Symposium (19-21, December, 1989, held at King Saud University, Riyadh, Saudi Arabia..
- The National Seminar on Biotechnology and Genetic Engineering (KACST/UNIDO), held at King Saud University, on 5-9, December, 1987. The participation was by attending the session.
- Collaboration with The laboratory of Phytopathology, Department of plant sciences of Wageningen University and King Saud University as a project entitled " Bioinformatics analysis of different fungal pathogens belonging to the class of Dothideomycetes including *Cladosporium fulvum*"

OTHER ACTIVITIES

MEMBERSHIP OF SCIENTIFIC ASSOCIATION

- Member of Saudi Biological Society (since 1984).
- Member of the Indian Phytopathology (since 1985).
- Member of Transactions of the Mycological Society of Japan (since 1988).
- Member of the Journal of the International Union of Microbiological Societies & of the MIRCEN Network in Association with UNESCO (since 1991).
- Member of the British Mycological Society (since 1993)
- Member of the Pakistan Journal of Biological Sciences (since 1998).

COMMITTEES

- Member of the Faculty of Academic Supervision Board for one year commencing (29-9-1985).
- Department representative at the Faculty of Libraries Committee (1985-1986).
- Member of the Equipment & Chemicals Committee for one year (1987-1988).
- Member of the Examination Committee during Academic year (1986-1987).
- Dept., Representative at the Community Services & Continuing Education Center (1992).
- Supervisor, Department of Botany and Microbiology Library, (1987-1989).
- Supervisor, Department of Botany & Microbiology Laboratories (1989).
- Chairman of Microbiology Unit (1988-1989).
- Academic Coordinator of 101 Mic (General Microbiology), Botany and Microbiology, Department (1996-to date).
- Academic Advisor of many students in Biology & Microbiology.
- Senior Advisor of M.Sc. students in Botany and Microbiology Department, College of Science, King Saud University.
- Senior Advisor of M.Sc. student in cooperation with King Faisal Specialist Hospital and Research Centre.

GRADUATE STUDIES SUPERVISION

- Senior advisor of M.Sc. Studies on seed-borne fungi of some cereal crops in Saudi Arabia (Degree awarded in February, 1991).
- Senior advisor of M.Sc. A study of airborne-viable fungi in Riyadh and the possible role as aero-allergens. (Degree awarded, February, 1992).
- Senior Advisor of M.Sc. Properties and characterization of polysaccharidase complex of fungi associated with soft rot of fruits and vegetable foods in Riyadh city (Degree awarded, June 1995).
- Senior advisor of M.Sc. Experimental studies on the regulation and repression of cellulolytic enzymes of some filamentous fungi (Degree awarded, December, (1994).
- Senior advisor of M.Sc. Production and partial characterization of an extracellular pectolytic enzymes of different isolates of yeasts. (1999)
- Co-advisor of M.Sc. student. Comparative study of protease enzymes production by different species of *Aspergillus*.
- Senior Advisor for M.Sc Role of some fungi in bioremediation and degradation of the explosive TNT (2,4,6 trinitrotoluene)(2003).

Isolation and identification of anaerobic rumen fungi and the properties of secreted cellulolytic and xylanolytic enzymes. (2004). (1425 H).

- Senior Advisor of Ph.D. An allergological and immunochemical studies of airborne fungal allergens in homes and schools in Riyadh city (2005) .
- Senior Advisor for M.Sc. Identification of toxigenic fungi recovered from dried fruits. (2011) Hanan Alomari
- Senior Advisor for M.Sc. Distribution, characterization and toxigenicity of fungal species isolated from feed (2012) Hasan Muamar
- Senior Advisor for M.Sc. PCR-Based Identification of Mycotoxigenic Fungi in Rice Grains (2012) Haysam Alasiri
- Screening of airborne fungi in Hail city (2013) Abeer Alrakis
- Senior Advisor of Ph.D. Microbial bioremediation of some nitroaromatic explosives (2013) Fahad Dhakaan
- Senior Advisor of Ph.D. Morphological, virulence, and molecular characterization of toxicogenic fungi from banana fruits imported into Saudi. (2013) Mousa Abdullah Alghuthaymi
- Senior Advisor of Ph.D. نزع الكولسترول من البيئات الميكروبية و تحمل الحموضة و أملاح الصفراء (2014). MOHAMMED HAMZA M ABUTARBOUSH و الالتصاق لبعض الخمائر
- Senior Advisor of M.Sc. isolating microorganisms forming biopolymer PHB polyhydroxybutyrate and PHA polyhydroxyalkanoate compounds and its identification by DNA sequence analysis. (2013) RAYAN YOUSEF EBEAHIEM BOOQ
- Senior Advisor of M.Sc. Diversity of marine fungi of arabian gulf , saudi arabia : studies at morphological and molecular levels (2014) Mohammed Omar Al-Hebshi
- Senior Advisor of M.Sc. Enhancing the antimicrobial activity of Gentamicin and Tobramycin and reducing its toxicity by encapsulate it inside nano-liposomal formulation (2015) Majed Abdullah Majrashi
- Senior Advisor of Ph.D. Molecular analysis of the microflora associated with camel milk In Riyadh region. (2016) Abdurahman Hajinur Hirad
- Senior Advisor of M.Sc. Rapid Molecular Identification of Candida Species from Clinical Blood Samples (2017) Khaled Al-Saif
- Senior Advisor of Ph.D. Phytochemical characterizations and antimicrobial bioactivity of some selected Saudi medicinal plants. (2017) Hind Abdalrhman Abdallah AL-Shwaiman
- Senior Advisor of M.Sc. BIOSYNTHESIS OF SEMICONDUCTOR NANOMATERIALS BY FUNGI: STRUCTURAL CHARACTERIZATION AND BIOASSAY (2018) Marzouq Hussin Alsaedi
- Senior Advisor of Ph.D. Bioactivity and phytochemical analysis of some medicinal plants extracts against pathogens causing nosocomial infection (2019) Saud Meshal Hussain Alghamdi
- Senior Advisor of Ph.D. Fungi mediated nanomaterials Bioinspired synthesis characterization and applications (2020) Helal Farag Saed Al-harhi
- Senior Advisor of Ph.D. Enhancing biodegradation potential of some marine yeasts isolated from Red Sea by genetic transformation (2021) Ahmed Ebrahim A Alsabri
- Senior Advisor of Ph.D. Effective Treatment of Opportunistic Respiratory Mycoses associated with immunocompromised individuals using Biosynthesized Nanoparticles (2022) Abobakr Mahmood Q Almansob

- Senior Advisor of Ph.D. Evaluation of silver titanium dioxide nanoparticles and their synergy with fluconazole against *Candida albicans* (2022) Najla Abdulaziz Abdulrahman Alshaikh

COUNCILS

- Member of Botany & Microbiology Department Council since 1983 date.
- Chairman of Microbiology Unit (1988-1989).
- Secretary of Botany & Microbiology Department Council (1989-1990).

UNIVERSITY AND COMMUNITY SERVICE

- Reviewer of research proposals and research reports submitted to King Abdul Aziz University, Jeddah, Saudi Arabia.
- Referee of research papers submitted for publications in Local Journals in Microbiology.
- Reviewer of proposals and reports presented by Saudi Arabian Standards Organization (SASO).
- Department representative for coordination with the University Studio Supervisor & TV Video Distribution Center Manager aimed at producing a TV Documentary film on each of the University facilities (1986).
- Collaboration with King Faisal Islamic Researches & Studies Centre (1987).
- Participated in Organizing the Teacher's Advanced Secondary Education Training course covering curricula on Applied Biology & Applied Chemistry during the period of (27-8-1985 to 20-12-1985).
- Academic advisor of many students in Biology and Microbiology.
- Advisor of M.Sc. students in Botany and Microbiology. Dept. College o Science, King Saud University.
- Translation into Arabic a Book of "Microbiology of Health carrers" by Elizabeth Fong & E.F. Ferris. 1987.
- International examiner for a number of M.Sc. students in the Department of Botany and Microbiology.
- External examiner for a Ph.D. degree to general presidency for higher education for girls, General Education Riyadh, 1994.
- Referee of research papers submitted for publications in International Journals in Microbiology.

LIST OF AUTHORED BOOK

1. علي بن حسن بهكلي . 1431 هـ. تقنية النانو : الواقع والنظرة المستقبلية .محمد بن عبده أحمد مسلم وآخرون . ISBN. 789960556734



LIST OF TRANSLATED BOOK

1. أ.د. كامل أحمد عبدالسلام - أ.د. علي بن حسن عبدالرحمن بهكلي. 2019. م. التنوع الحيوي للفظويات. دار جامعة الملك سعود للنشر. ISBN 9786035077170.

2. علي بن حسن بهكلي. 1429. هـ. علم الاحياء الدقيقة للمهن الصحية، إليزابيث فونج؛ الفيرا ب. فيرس. ISBN. 1322559960978



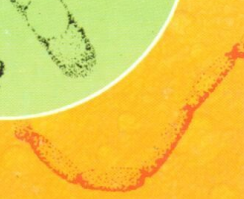
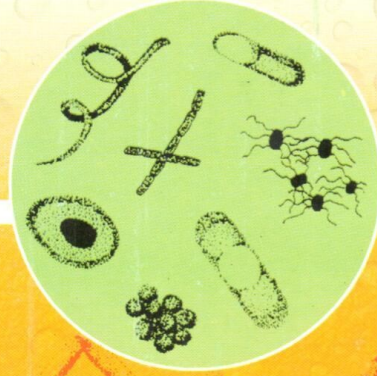
علم الأحياء الدقيقة للمهنة الصحية

تأليف

إليزابيث فونج ألفيرا ب. فيرس

ترجمة

الدكتور علي حسن عبد الرحمن بهكلي



النشر العلمي و المطابع
جامعة الملك سعود



Clarivate

English

Products

Web of Science™

Search

>1

MENU

Search >

Author Records >

Author Profile

Share

Submit a correction

Ali Bahkali ✓

(Bahkali, Ali H.)

 Highly Cited Researcher

King Saud University

 Web of Science ResearcherID: E-3720-2014

Published names

Bahkali, Ali H. Bahkali, A. H. Bahkali, Ali Hassan Bahkali, AH
 Bahkali, Ali [Show more](#)

Published Organizations

King Saud University, Yeungnam University, King Saudi Univ
[Show more](#)

Subject Categories

Mycology; Plant Sciences; Chemistry; Biotechnology & Applied Microbiology;
 Science & Technology - Other Topics

Awards

 Highly Cited Researcher in the field of Plant and Animal Science - 2021
 Highly Cited Researcher in the field of Plant and Animal Science - 2020 [Show more](#)

Metrics

Open dashboard

Profile summary

330

Total documents

329

Web of Science Core Collection publications

0

Preprints

0

Dissertations or Theses

0

Verified peer reviews

0

Verified editor records

Web of Science Core Collection metrics

55

H-Index

329

Publications in Web of Science

14,105

Sum of Times Cited

6,921

Citing Articles

46

Sum of Times Cited by Patents

46

Citing Patents

		Rankings for Scientist		World Scientist and University Rankings 2024		
		University, Subject, Country, Region, World		King Saud University Ali Bahkali		
  			In King Saud University (915)	In Saudi Arabia (7,231)	In Asia (436,523)	World (1,443,846)
			Scores	Rankings		
	Total H	68	#9	#67	#3,429	#30,385
	Last 6 year H	52	#12	#75	#2,772	#16,055
	Last 6 year H / total H	0.765				
	Total i10	253	#13	#83	#3,215	#17,834
	Last 6 years i10	206	#12	#71	#2,263	#11,097
	Last 6 years i10 / Total i10	0.814				
	Total Citation	19,950	#12	#84	#3,933	#36,424
	Last 6 years Citation	12,361	#17	#88	#3,014	#20,181
	Last 6 years Citation / Total Citation	0.620				
	Medical and Health Sciences *		#3 (254) *	#4 (1,302) *	#305 (33,679) *	#5,314 (130,217) *
	Physiology *		#1 🥇 (5) *	#1 🥇 (23) *	#1 🥇 (550) *	#70 (2,640) *

www.adscientificindex.com

Date : 26.01.2024

* Source and Methodology: <https://www.adscientificindex.com/scientist/ali-bakkali/301572>



Scopus Preview

Author Search

Sources



Create account

Sign in

This author profile is generated by Scopus. [Learn more](#)

Bahkali, A. Hassan A.

[College of Sciences, Riyadh, Saudi Arabia](#) [6602587860](#) [Connect to ORCID](#)

[Is this you? Connect to Mendeley account](#)

16,378

Citations by 8,426 documents

421

Documents

60

h-index View *h*-graph

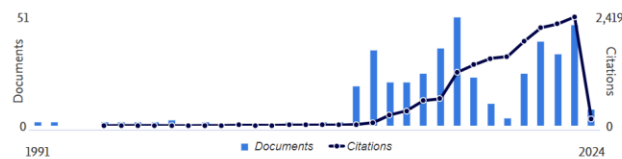
[View all metrics >](#)

[Set alert](#)

[Edit profile](#)

[More](#)

Document & citation trends



Scopus Preview

Scopus Preview users can only view a limited set of features. Check your institution's access to view all documents and features.

[Check access](#)

421 Documents

[Author Metrics](#)

New

Cited by 8,426 documents

4 Preprints

1,311 Co-Authors

0 Topics

0 Awarded Grants

Beta

Google Scholar



Ali Bahkali

Professor of Physiological Fungal Ecology, Dept. of Botany and Microbiology, [King Saud University](#)

Verified email at ksu.edu.sa - [Homepage](#)

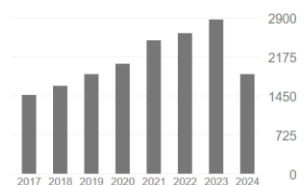
[Physiological Fungal Ecology](#)

[FOLLOW](#)

Cited by

[VIEW ALL](#)

	All	Since 2019
Citations	21186	13774
<i>h</i> -index	70	55
<i>i10</i> -index	276	232



Public access

[VIEW ALL](#)

15 articles	71 articles
not available	available

Based on funding mandates

TITLE	CITED BY	YEAR
Families of Dothideomycetes: In loving memory of Majorie Phyllis Hyde (affectionately known as Mum or Marj), 29 August 1921–18 January 2013—without mum's determination, a ... KD Hyde, EBG Jones, JK Liu, H Ariyawansa, E Boehm, S Boonmee, ... Fungal diversity 63, 1-313	763	2013
The Faces of Fungi database: fungal names linked with morphology, phylogeny and human impacts SC Jayasiri, KD Hyde, HA Ariyawansa, J Bhat, B Buyck, L Cai, YC Dai, ... Fungal diversity 74, 3-18	734	2015
Fungal diversity notes 111–252—taxonomic and phylogenetic contributions to fungal taxa HA Ariyawansa, KD Hyde, SC Jayasiri, B Buyck, KWT Chethana, DQ Dai, ... Fungal diversity 75, 27-274	570	2015
The genus <i>Phomopsis</i>: biology, applications, species concepts and names of common phytopathogens D Udayanga, X Liu, EHC McKenzie, E Chukeatirote, AHA Bahkali, ... Fungal diversity 50, 189-225	495	2011
Fungal diversity notes 1–110: taxonomic and phylogenetic contributions to fungal species JK Liu, KD Hyde, EBG Jones, HA Ariyawansa, DJ Bhat, S Boonmee, ... Fungal diversity 72, 1-197	491	2015

LIST OF PUBLICATIONS (490 ARTICLES)

1. Li, Y.; Awasthi, M.K.; Syed, A.; Bahkali, A.H. The measurement and insight of bacterial community structure succession in cyanobacteria biochar co-composting based on basic carbon and nitrogen indices. *Journal of Environmental Management* 2025, 373, doi:10.1016/j.jenvman.2024.123774.
2. Barazzouq, A.; Ouzebila, D.; Hsissou, R.; Daoudi, M.; Bahkali, A.H.; Zeroual, A.; Wang, S.; Syed, A.; El Idrissi, M. Theoretical anti-tuberculosis activity and molecular docking investigation of N-silylated heterocyclic compounds with benzyl chloride catalyzed by ammonium sulfate-doped red algae (AS@CRA). *Current Chemistry Letters* 2025, 14, 59-68, doi:10.5267/j.ccl.2024.10.001.
3. Zhou, Y.; Awasthi, M.K.; Syed, A.; Bahkali, A.H. Engineered biochar combined clay for microplastic biodegradation during pig manure composting. *Environmental Pollution* 2024, 356, doi:10.1016/j.envpol.2024.124372.
4. Zain, M.; Yasin, K.A.; Haq, S.; Shujaat, S.; Syed, A.; Elgorban, A.M.; Bahkali, A.H.; Razzokov, J.; Rehman, Z.U. Solvent free fabrication and thermal tuning of copper oxide-zirconium dioxide nanocomposite for enhanced photocatalytic efficacy. *Materials Research Express* 2024, 11, doi:10.1088/2053-1591/ad3db3.
5. Zahid, Z.; Saeed, S.; Arif, S.; Waseem, M.; Haq, S.; Syed, A.; Mena, F.; Bahkali, A.H.; Wong, L.S. Green synthesis of NiO/ZnO nanocomposites for the adsorption of various dyes. *Materials Research Express* 2024, 11, doi:10.1088/2053-1591/ad3462.
6. Waheed, T.; Min, P.; Shujaat, S.; Haq, S.; ud Din, S.; Hossain, M.K.; Rehman, F.U.; Syed, A.; Bahkali, A.H.; Wong, L.S.; Razzokov, J. Enhanced Photocatalytic Performance of Cr/Ni/Mg/Al Layered Double Hydroxides against Methyl Orange in Aqueous Solution. *Desalination and Water Treatment* 2024, 319, doi:10.1016/j.dwt.2024.100495.
7. Syed, A.; Taki, A.G.; Bahkali, A.H.; Wang, S.; Adhab, A.H.; Wong, L.S.; Amer, R.F.; Janani, B.J. Gold nanoparticles supported on chitosan and the ameliorative response on Raman scattering sensing, catalytic reduction, antibacterial and cytotoxicity activities. *European Physical Journal Plus* 2024, 139, doi:10.1140/epjp/s13360-024-05022-4.
8. Syed, A.; Badraddin, S.Q.; Bahkali, A.H.; Mohammed, S.; Athab, A.H.; Wang, S.; Wong, L.S.; Fallah Amer, R.; Janani, B.J. Green synthesis of nano zero-valent iron doped on bimetallic Ti/Mo-MOF for highly sensitive Peroxidase like colorimetric detection of Cholesterol and antioxidant/antimicrobial efficiencies. *Physica Scripta* 2024, 99, doi:10.1088/1402-4896/ad579e.
9. Sun, X.; Awasthi, M.K.; Syed, A.; Bahkali, A.H. Effect of cyanobacteria biochar addition on humification, fungal dynamics and its mechanism of action in pig manure composting. *Journal of Environmental Chemical Engineering* 2024, 12, doi:10.1016/j.jece.2024.113755.
10. Sohail, M.; Ayyob, M.; Wang, A.; Sun, Z.; Syed, A.; Elgorban, A.M.; Bahkali, A.H.; Zairov, R.; Ahmad, I. Cobalt-based CoSe/CoO heterostructure: A catalyst for efficient oxygen evolution reaction. *International Journal of Hydrogen Energy* 2024, 67, 1000-1008, doi:10.1016/j.ijhydene.2023.12.278.

11. Sivaprakasam, A.; Normamatov, A.S.; Gunganathan, L.; Ibragimov, A.B.; Suppuraj, P.; Syed, A.; Bahkali, A.H.; Wong, L.S.; Mohammad, M.R.; Balakrishnan, C. Self-assembled tin(IV) organic-inorganic hybrids: Synthesis, spectral, structural, and Hirshfeld surface analysis of bis(thiomorpholinium) hexahalostannate(IV). *Journal of Molecular Structure* 2024, 1318, doi:10.1016/j.molstruc.2024.139382.
12. Singhal, M.; Loveleen, L.; Manchanda, R.; Syed, A.; Bahkali, A.H.; Wong, L.S.; Nimesh, S.; Gupta, N. Design, synthesis and optimization of silver nanoparticles using *Azadirachta indica* bark extract and its antibacterial application. *Journal of Agriculture and Food Research* 2024, 16, doi:10.1016/j.jafr.2024.101088.
13. Siddhardha, B.; Pandey, U.; Kaviyarasu, K.; Pala, R.; Syed, A.; Bahkali, A.H.; Elgorban, A.M. Correction to: Chrysin-Loaded Chitosan Nanoparticles Potentiates Antibiofilm Activity against *Staphylococcus aureus* (Pathogens, (2020), 9, 2, (115), 10.3390/pathogens9020115). *Pathogens* 2024, 13, doi:10.3390/pathogens13010029.
14. Shakoor, I.; Jabeen, U.; Ahmad, I.; Riaz, S.; Tayyab, M.; Syed, A.; Bahkali, A.H.; Riaz, M.; Zairov, R.R.; Zafar, M.N. ZnS and Fe-doped ZnS photocatalysts for improved visible light driven photocatalytic degradation of methylene blue. *Inorganica Chimica Acta* 2024, 560, doi:10.1016/j.ica.2023.121837.
15. Shahzadi, A.; Ashfaq, U.A.; Khurshid, M.; Nisar, M.A.; Syed, A.; Bahkali, A.H. Deciphering Multi-target Pharmacological Mechanism of Cucurbita pepo Seeds against Kidney Stones: Network Pharmacology and Molecular Docking Approach. *Current Pharmaceutical Design* 2024, 30, 295-309, doi:10.2174/0113816128271781231104151155.
16. Shafqat, S.S.; Zafar, B.; Masood, S.A.; Shafqat, S.R.; Khan, H.U.; Syed, A.; Bahkali, A.H.; Mutahir, S.; Khan, M.A.; Xu, G.; Zafar, M.N. Nitrophenylfurfural grafted amino functionalized silica nanoparticles for adsorptive removal of tartrazine dye from water. *Materials Advances* 2024, 5, 7296-7311, doi:10.1039/d4ma00618f.
17. Ryachi, K.; idrissi, M.E.; Mohammad-Salim, H.; Bahkali, A.H.; de Julián-Ortiz, J.V.; Zeroual, A.; Wang, S.; Wong, L.S.; Syed, A.; Tounsi, A. Molecular docking, expounding the chemo-, regio-selectivity, and the mechanism of [3 + 2] cycloaddition reaction between nitrile-imine and (thio)-chalcone. *Monatshefte fur Chemie* 2024, 155, 697-707, doi:10.1007/s00706-024-03221-4.
18. Matine, A.; Lizoul, B.; El Alaoui El Abdallaoui, H.; Bahkali, A.H.; Wang, S.; Syed, A.; idrissi, M.E.; Zeroual, A. Investigation of 2-ethoxy-4-(oxiran-2-ylmethyl)phenol as a potentially effective anti-corrosion agent for C38 steel. *International Journal of Electrochemical Science* 2024, 19, doi:10.1016/j.ijoes.2024.100816.
19. Matine, A.; Es-Sounni, B.; Bakhouch, M.; Bahkali, A.H.; El Alaoui El Abdallaoui, H.; Wang, S.; Syed, A.; Wong, L.S.; Saleh, N.; Zeroual, A. Design, synthesis, and evaluation of a pyrazole-based corrosion inhibitor: a computational and experimental study. *Scientific Reports* 2024, 14, doi:10.1038/s41598-024-76300-5.
20. Matine, A.; Bakhouch, M.; Mohammad-Salim, H.; Elgorban, A.M.; Bahkali, A.H.; Abdallaoui, H.E.A.E.; Syed, A.; Idrissi, M.E.; Verma, M.; Zeroual, A.; de Julián-Ortiz, J.V. Exploring the synthesis and application of a pyrazole derivative in corrosion protection: Theoretical modeling and experimental investigations. *Journal of Molecular Structure* 2024, 1312, doi:10.1016/j.molstruc.2024.138458.
21. Maryam, I.; Iqbal, T.; Syed, A.; Bahkali, A.H.; Tehseen, A.; Afsheen, S.; Sultan, M.S. Facile green synthesis of novel tantalum doped tungsten trioxide for photocatalytic degradation:

Correlation with COMSOL simulation. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy* 2024, 314, doi:10.1016/j.saa.2024.124191.

22. Liu, H.; Awasthi, M.K.; Zhang, Z.; Syed, A.; Bahkali, A.H. Evaluation of gases emission and enzyme dynamics in sheep manure compost occupying with peach shell biochar. *Environmental Pollution* 2024, 351, doi:10.1016/j.envpol.2024.124065.
23. Liaqat, M.; Younas, A.; Iqbal, T.; Afsheen, S.; Zubair, M.; Kamran, S.K.S.; Syed, A.; Bahkali, A.H.; Wong, L.S. Synthesis and characterization of ZnO/BiVO₄ nanocomposites as heterogeneous photocatalysts for antimicrobial activities and waste water treatment. *Materials Chemistry and Physics* 2024, 315, doi:10.1016/j.matchemphys.2024.128923.
24. Kim, D.Y.; Yang, T.; Srivastava, P.; Nile, S.H.; Seth, C.S.; Jadhav, U.; Syed, A.; Bahkali, A.H.; Ghodake, G.S. Alginic acid-functionalized silver nanoparticles: A rapid monitoring tool for detecting the technology-critical element tellurium. *Journal of Hazardous Materials* 2024, 465, doi:10.1016/j.jhazmat.2023.133161.
25. Kim, D.Y.; Kim, M.; Sung, J.S.; Koduru, J.R.; Nile, S.H.; Syed, A.; Bahkali, A.H.; Seth, C.S.; Ghodake, G.S. Extracellular synthesis of silver nanoparticle using yeast extracts: antibacterial and seed priming applications. *Applied Microbiology and Biotechnology* 2024, 108, doi:10.1007/s00253-023-12920-7.
26. Khan, M.; Salman, M.; Ullah, A.; Ullah, N.; Syed, A.; Bahkali, A.H.; Shah, A.; Ali, R.; Ling, Y.; Khan, M. Effect of hydrothermal reaction temperature on MoO₃ nanostructure properties for enhanced electrochemical performance as an electrode material in supercapacitors. *Ceramics International* 2024, 50, 34943-34955, doi:10.1016/j.ceramint.2024.06.303.
27. Jain, S.; Sharma, M.K.; Syed, A.; Bahkali, A.H.; Nimesh, S.; Gupta, N.; Chatterjee, S. Synergistic therapeutic effect of Guggul gum resin on antidiabetic activity of saxagliptin. *Journal of Agriculture and Food Research* 2024, 18, doi:10.1016/j.jafr.2024.101462.
28. Hyde, K.D.; Baldrian, P.; Chen, Y.; Thilini Chethana, K.W.; De Hoog, S.; Doilom, M.; de Farias, A.R.G.; Gonçalves, M.F.M.; Gonkhom, D.; Gui, H.; Hilário, S.; Hu, Y.; Jayawardena, R.S.; Khyaju, S.; Kirk, P.M.; Kohout, P.; Luangharn, T.; Maharachchikumbura, S.S.N.; Manawasinghe, I.S.; Mortimer, P.E.; Niego, A.G.T.; Phonemany, M.; Sandargo, B.; Senanayake, I.C.; Stadler, M.; Surup, F.; Thongklang, N.; Wanasinghe, D.N.; Bahkali, A.H.; Walker, A. Current trends, limitations and future research in the fungi? *Fungal Diversity* 2024, 125, 1-71, doi:10.1007/s13225-023-00532-5.
29. Gul, S.; Syed, A.; Bahkali, A.H.; Ali, R.; Ling, Y.; Sardar, B.; Khan, M. Investigating the structural, morphological, optical, and electrical properties of MoS₂ nanostructures with PANI integration. *Materials Science and Engineering: B* 2024, 307, doi:10.1016/j.mseb.2024.117542.
30. Elgorban, A.M.; Debnath, S.; Shakeel, A.; Bahkali, A.H.; Eswaramoorthy, R.; Verma, M.; Kesari, K.K.; Sharma, R.; Syed, A. Plant-derived compounds to boost soybean oil quality and stress resistance by modulating Heme Oxygenase-1 protein: A novel technique for ensuring food security. *South African Journal of Botany* 2024, 170, 97-104, doi:10.1016/j.sajb.2024.05.007.
31. Diany, R.; Kerraj, S.; Aboulouard, A.; Syed, A.; Zeroual, A.; Bahkali, A.H.; El Idrissi, M.; Salah, M.; Tounsi, A. Enhancing dye sensitized solar cells performance through quinoxaline based organic dye sensitizers. *Journal of Computational Electronics* 2024, 23, 1195-1208, doi:10.1007/s10825-024-02211-3.

32. Dey, B.; Ahmad, M.W.; Syed, A.; Bahkali, A.H.; Verma, M.; Choudhury, A. Iron metal organic framework decorated carbon nanofiber-based electrode for electrochemical sensing platform of chlorpyrifos in fruits and vegetables. *Materials Science in Semiconductor Processing* 2024, 181, doi:10.1016/j.mssp.2024.108669.
33. Debnath, S.; Elgorban, A.M.; Bahkali, A.H.; Eswaramoorthy, R.; Verma, M.; Syed, A.; Subramaniyan, V.; Kamaraj, C.; Wong, L.S.; Kumarasamy, V. Enhancing drought tolerance in cauliflower (*Brassica oleracea* var. botrytis) by targeting LFY transcription factor modulation via the ethylene precursor, ACCA: an innovative computational approach. *Frontiers in Plant Science* 2024, 15, doi:10.3389/fpls.2024.1255979.
34. Choudhury, A.; Anand, S.; Syed, A.; Bahkali, A.H.; Wong, L.S.; Yoon, K.B.; Yang, D.J.; Ahmad, M.W. Synthesis of 2D bi-metallic Zn/Cu metal-organic framework integrated graphene nanocomposites for all-solid-state asymmetric supercapacitors. *Diamond and Related Materials* 2024, 141, doi:10.1016/j.diamond.2023.110613.
35. Bahkali, A.H.; Syed, A.; Elgorban, A.M.; Abdel-Wahab, M.A.; Srivastava, N.; Kumar Gupta, V. Valorization of waste date pulp and seeds in sustainable fabrication of Al₂O₃ nanocatalyst and bio-oil production. *Process Safety and Environmental Protection* 2024, 184, 823-833, doi:10.1016/j.psep.2024.01.104.
36. Bahkali, A.H.; Syed, A.; Elgorban, A.M.; Abdel-Wahab, M.A.; Srivastava, N.; Gupta, V.K. Novel strategy to elevate solid state fermentation to produce alkilophilic endoglucanase using date waste feedstocks and peapod extract based nutrient media and expired probiotic strain: Application in fermentable sugar production. *Process Safety and Environmental Protection* 2024, 183, 580-586, doi:10.1016/j.psep.2024.01.017.
37. Ayub, H.; Jabeen, U.; Ahmad, I.; Aamir, M.; Ullah, A.; Mushtaq, A.; Behlil, F.; Javaid, B.; Syed, A.; Elgorban, A.M.; Bahkali, A.H.; Zairov, R.; Ali, A. Enhanced anticancer and biological activities of environmentally friendly Ni/Cu-ZnO solid solution nanoparticles. *Heliyon* 2024, 10, doi:10.1016/j.heliyon.2024.e39912.
38. Atif, M.; Barhoumi, A.; Syed, A.; Bahkali, A.H.; Chafi, M.; Tounsi, A.; Zeroual, A.; Paray, B.A.; Wang, S.; El Idrissi, M. ADME Study, Molecular Docking, Elucidating the Selectivities and the Mechanism of [4 + 2] Cycloaddition Reaction Between (E)-N ((dimethylamino)methylene)benzothioamide and (S)-3-acryloyl-4-phenyloxazolidin-2-one. *Molecular Biotechnology* 2024, 10.1007/s12033-024-01105-w, doi:10.1007/s12033-024-01105-w.
39. Anand, S.; Wasi Ahmad, M.; Syed, A.; Bahkali, A.H.; Verma, M.; Hye Kim, B.; Choudhury, A. Walnut shell derived N, S co-doped activated carbon for solid-state symmetry supercapacitor device. *Journal of Industrial and Engineering Chemistry* 2024, 129, 309-320, doi:10.1016/j.jiec.2023.08.045.
40. Akhter, N.; Aqeel, M.; Irshad, M.K.; Shehnaz, M.M.; Lee, S.S.; Noman, A.; Syed, A.; Bokhari, A.; Bahkali, A.H.; Wong, L.S. Differential capacity of phragmites ecotypes in remediation of inorganic contaminants in coastal ecosystems: Implications for climate change. *Environmental Research* 2024, 247, doi:10.1016/j.envres.2024.118127.
41. Ajlaoui, R.E.; Raji, H.; Ouardi, M.E.; Chakroun, A.; Zeroual, A.; Syed, A.; Bahkali, A.H.; Elgorban, A.M.; Verma, M.; Benharref, A.; Varma, R.S. MEDT Study, hemisynthesis via regioselective ring opening of α -Himachalene-Epoxides, ADME survey and docking studies designed to target coronavirus and HIV-1. *Journal of Molecular Liquids* 2024, 394, doi:10.1016/j.molliq.2023.123707.

42. Aitouna, A.O.; Mazoir, N.; Zeroual, A.; Syed, A.; Bahkali, A.H.; Elgorban, A.M.; Verma, M.; idrissi, M.E.; Jasiński, R. Molecular docking, expounding the regiospecificity, stereoselectivity, and the mechanism of [5+2] cycloaddition reaction between ethereal ether and oxidopyrylium. *Structural Chemistry* 2024, 35, 841-852, doi:10.1007/s11224-023-02239-4.
43. Ait braim, I.; Rafik, A.; Benharref, A.; Chekroun, A.; Mohammad-Salim, H.; Zeroual, A.; Syed, A.; Bahkali, A.H.; Wang, S.; Wong, L.S.; de Julian Ortiz, J.V. Synthesis, X-ray analysis, and antiviral evaluation of allohimachalol: Insights into stereoselectivity in epoxidation. *Journal of Molecular Structure* 2024, 1305, doi:10.1016/j.molstruc.2024.137660.
44. Ahmad, M.W.; Singh, J.; Syed, A.; Bahkali, A.H.; Subramaniam, M.; Yang, D.J.; Choudhury, A. Bimetallic Manganese-Nickel Metal-Organic Framework Anchored Hexyl-Aminated Carbon Nanotube Hybrid as an Anodic Material for Solid-State Asymmetric Supercapacitors. *Energy and Fuels* 2024, 38, 14672-14684, doi:10.1021/acs.energyfuels.4c01639.
45. Ahmad, M.W.; Anand, S.; Syed, A.; Bahkali, A.H.; Wong, L.S.; Shrivastava, A.; Choudhury, A.; Yang, D.J. Synthesis of graphene nanocomposites integrated with 3D bimetallic magnesium/cobalt metal-organic framework as anodic material for solid-state asymmetric supercapacitors. *Surfaces and Interfaces* 2024, 44, doi:10.1016/j.surfin.2023.103834.
46. Abdel-Wahab, M.A., A.M. Elgorban, and A.H. Bahkali, *The use of macroalgal hydrolysate as a carbon source in the lipid production of the marine heterotrophic dinoflagellate Crypthecodinium AL-05*. *Botanica Marina*, **2023**. 66(6): p. 567-578.
47. Abdel-Wahab, M.A., A.M. Elgorban, and A.H. Bahkali, *Single cell oil of oleaginous marine microbes from Saudi Arabian mangroves as a potential feedstock for biodiesel production*. *Journal of King Saud University-Science*, **2023**. 35(4): p. 102615.
48. Ahmad, M.W., S. Anand, A. Syed, A.H. Bahkali, L.S. Wong, A. Shrivastava, A. Choudhury, and D.-J. Yang, *Synthesis of Graphene Nanocomposites Integrated with 3D Bimetallic Magnesium/Cobalt Metal-Organic Framework as Anodic Material for Solid-State Asymmetric Supercapacitors*. *Surfaces and Interfaces*, **2023**: p. 103834.
49. Ahmad, M.W., B. Dey, A. Syed, A.H. Bahkali, M. Verma, D.-J. Yang, and A. Choudhury, *MOFs-derived niobium oxide nanoparticles/carbon nanofiber hybrid paper as flexible binder-free electrode for solid-state asymmetric supercapacitors*. *Journal of Alloys and Compounds*, **2023**. 957: p. 170269.
50. Aitouna, A.O., N. Mazoir, A. Zeroual, A. Syed, A.H. Bahkali, A.M. Elgorban, M. Verma, M.E. idrissi, and R. Jasiński, *Molecular docking, expounding the regiospecificity, stereoselectivity, and the mechanism of [5+ 2] cycloaddition reaction between ethereal ether and oxidopyrylium*. *Structural Chemistry*, **2023**: p. 1-12.
51. Aitouna, A.O., H. Mohammad-Salim, A. Zeroual, A. Syed, A.H. Bahkali, and J.V. de Julián-Ortiz, *Investigation of the molecular mechanism and diastereoselectivity in the [3+ 2] cycloaddition reaction between acetonitrile oxide and Cis-3, 4-Dichlorocyclobutene: Insights from MEDT and docking study*. *Computational and Theoretical Chemistry*, **2023**. 1228: p. 114283.
52. Al-Harthi, H.F., A.M. Elgorgan, B. Ahmed, A.H. Bahkali, M. ElSheshtawi, J.P. Shaik, A.M. Al-Falih, and A. Syed, *Identification, molecular characterization, and plant growth promoting activities of endophytic fungi of Jasminum sambac, Camellia sinensis, and Ocimum basilicum*. *Journal of King Saud University-Science*, **2023**. 35(3): p. 102558.

53. Alshaikh, N.A., K. Perveen, and A.H. Bahkali, *Effect of silver nanoparticles alone and in combination with fluconazole on Candida albicans*. Journal of King Saud University-Science, **2023**. 35(1): p. 102399.
54. Amin, A., M. Manzoor, M.W. Ramay, A. Hassan, K. Hina, A. Syed, A.H. Bahkali, and M. Arshad, *Metallic nanoparticles photodegraded antibiotics and co-application improved wheat growth and nutritional quality through stress alleviation*. Chemosphere, **2023**. 323: p. 138189.
55. Awasthi, S.K., S. Verma, T. Liu, M.K. Awasthi, Z. Zhang, A. Syed, and A.H. Bahkali, *Regulation of fungal communities during pig manure composting*. Bioresource Technology, **2023**. 389: p. 129823.
56. Azam, A., G. Muhammad, M.S. Aslam, M.M. Iqbal, M.A. Raza, N. Akhtar, M.A. Hussain, N. Sajjad, A. Syed, and A.H. Bahkali, *Enhanced bactericidal and in vivo wound healing potential of biosynthesized zinc oxide nanoparticles from psyllium mucilage*. Applied Organometallic Chemistry, **2023**. 37(1): p. e6923.
57. Azeem, K., F. Naz, F. Nadeem, H.M. Jhanzab, A. Sher, Y. Bibi, A. Syed, A.H. Bahkali, A.M. Elgorban, and M. Hussain, *Deciphering of Microbes× Nitrogen source fertilizers Interaction for improving nitrogen use efficiency in spring maize*. Journal of King Saud University-Science, **2023**. 35(4): p. 102633.
58. Bahkali, A.H., A. Syed, A.M. Elgorban, M.A. Abdel-Wahab, N. Srivastava, and V.K. Gupta, *Date seed waste derived nanocatalyst and its application in production of hydrolytic enzyme, fermentative sugars and biohydrogen*. Bioresource Technology, **2023**. 390: p. 129837.
59. Balaji, N., A.M. Elgorban, A.H. Bahkali, and N.S. Zaghloul, *Biodegradable cow dung for brake friction material: a preliminary investigation*. Materials Research Express, **2023**. 10(1): p. 015102.
60. Balasurya, S., A.M. Elgorban, A.H. Bahkali, M. Yassin, R. Balakrishnaraja, R.S. Varma, A. Syed, and S.S. Khan, *Novel self-propelled CuCr2O4-BiI3O9 nanojets for the efficient photodegradation of organics in wastewater: A non-genotoxic nanomaterial for water treatment*. Journal of Water Process Engineering, **2023**. 53: p. 103657.
61. Basri, R., S. Fatima, S. Jalil, A. Imran, N. Fatima, A. Syed, A.H. Bahkali, J. Iqbal, and Z. Shafiq, *2 - Oxoquinoline - based - thiosemicarbazones as multitargeting neurotherapeutics against Alzheimer's disease: In vitro and in silico studies of MAO and ChE inhibitors*. Archiv der Pharmazie, **2023**. 356(11): p. 2300430.
62. Chavan, G., R.U. Amate, H. Lee, A. Syed, A.H. Bahkali, A.M. Elgorban, and C.-W. Jeon, *Rational design of 3D hollow cube architecture for next-generation efficient aqueous asymmetric supercapacitors*. Journal of Energy Storage, **2023**. 61: p. 106757.
63. Debnath, S., A. Elgorban, A.H. Bahkali, R. Eswaramoorthy, M. Verma, and A. Syed, *Exploring the efficacy of 1-amino-cyclopropane-1-carboxylic acid (ACCA) as a natural compound in strengthening maize resistance against biotic and abiotic stressors: an empirical computational study*. Frontiers in microbiology, **2023**. 14: p. 1232086.
64. Devadatha, B., E.G. Jones, D.N. Wanasinghe, A.H. Bahkali, and K.D. Hyde, *Characterization of novel estuarine Ascomycota based on taxonomic and phylogenetic evaluation*. Botanica Marina, **2023**(0).

65. Duan, Y., X. Zhang, M.K. Awasthi, H. Li, L. Zhang, A. Syed, A.H. Bahkali, and M. Verma, *Bacterial community diversity and co-occurrence networks in biochar as a sustainable soil amendment material for apple orchards*. Industrial Crops and Products, **2023**. 206: p. 117723.
66. Elgorban, A.M., S. Debnath, A.H. Bahkali, R. Eswaramoorthy, M. Verma, M.L. Battaglia, and A. Syed, *Inhibition of tomato spotted wilt virus nucleocapsid protein using phytochemical lupenone as spraying agent: A cutting-edge computational approach*. Physiological and Molecular Plant Pathology, **2023**. 126: p. 102033.
67. Elgorban, A.M., S. Debnath, A.H. Bahkali, R. Eswaramoorthy, M. Verma, S. Wang, and A. Syed, *Exploring the potency of curcumin and phyto-compounds as inhibitors of tomato yellow leaf curl virus-sardinia's DNA-binding domain: A computational approach*. Physiological and Molecular Plant Pathology, **2023**. 127: p. 102098.
68. Elgorban, A.M., D. Sivaganesh, M. Arunpandian, A.H. Bahkali, R. Eswaramoorthy, N.S. Zaghloul, M. Verma, and A. Syed, *Visible light-embedded CuO/ZnO twofold execution for photocatalysis and photoluminescence*. Journal of Electroceramics, **2023**: p. 1-16.
69. Fareed, N., S. Nisa, Y. Bibi, A. Fareed, W. Ahmed, M. Sabir, S. Alam, A. Sajjad, S. Kumar, and M. Hussain, *Green synthesized silver nanoparticles using carrot extract exhibited strong antibacterial activity against multidrug resistant bacteria*. Journal of King Saud University-Science, **2023**. 35(2): p. 102477.
70. Hyde, K., M. Abdel-Wahab, J. Abdollahzadeh, P. Abeywickrama, S. Absalan, N. Afshari, A. Ainsworth, O. Akulov, V. Aleoshin, and A. Al-Sadi, *Global consortium for the classification of fungi and fungus-like taxa*. Mycosphere, **2023**. 14(1).
71. Janani, B., R. Balakrishnaraja, A.M. Elgorban, A.H. Bahkali, R.S. Varma, A. Syed, and S.S. Khan, *Eco-friendly cubic-ZnS coupled Cu₇S₄ spines on chitosan matrix: Unravelling defect-engineered nanoplatform for the photodegradation of p-chlorophenol*. Journal of Environmental Management, **2023**. 326: p. 116615.
72. Jiao, M., X. Ren, X. Zhan, C. Hu, J. Wang, A. Syed, A.H. Bahkali, and Z. Zhang, *Exploring gaseous emissions and pivotal enzymatic activity during co-composting of branch and pig manure: The effect of particle size of bulking agents*. Bioresource Technology, **2023**. 382: p. 129199.
73. Katepogu, H., Y.J. Wee, S.V. Chinni, S.C. Gopinath, A. Syed, A.H. Bahkali, A.M. Elgorban, and V.R. Lebaka, *Lactic acid production from sugarcane field residue as renewable and economical bioresource by newly isolated *Pediococcus pentosaceus* HLV1*. Biomass Conversion and Biorefinery, **2023**. 13(16): p. 14927-14937.
74. Kumar, A., C.J. Raorane, A. Syed, A.H. Bahkali, A.M. Elgorban, V. Raj, and S.C. Kim, *Synthesis of TiO₂, TiO₂/PANI, TiO₂/PANI/GO nanocomposites and photodegradation of anionic dyes Rose Bengal and thymol blue in visible light*. Environmental Research, **2023**. 216: p. 114741.
75. Liu, H., M.K. Awasthi, Z. Zhang, A. Syed, A.H. Bahkali, R. Sindhu, and M. Verma, *Microbial dynamics and nitrogen retention during sheep manure composting employing peach shell biochar*. Bioresource Technology, **2023**. 386: p. 129555.
76. Liu, H., M.K. Awasthi, Z. Zhang, A. Syed, A.H. Bahkali, R. Sindhu, and M. Verma, *Evaluation of fungal dynamics during sheep manure composting employing peach shell biochar*. Bioresource Technology, **2023**. 386: p. 129559.

77. Muhammad, G., A. Manaf, A. Khalid, A. Sher, C.J. Lovatt, A. Syed, A.H. Bahkali, A.M. Elgorban, and A. Qayyum, *Allometric dynamics of Sinapis alba under different ecological conditions*. Journal of King Saud University-Science, **2023**. 35(1): p. 102403.
78. Ouled Aitouna, A., A. Barhoumi, H. El Alaoui El Abdallaoui, N. Mazoir, M. Elalaoui Belghiti, A. Syed, A.H. Bahkali, M. Verma, and A. Zeroual, *Explaining the selectivities and the mechanism of [3+ 2] cycloaddition reaction between isoalantolactone and diazocyclopropane*. Journal of Molecular Modeling, **2023**. 29(9): p. 280.
79. Pal, D.B., A.K. Tiwari, N. Prasad, A. Syed, A.H. Bahkali, N. Srivastava, R.P. Singh, and V.K. Gupta, *Sustainable valorization of water hyacinth waste pollutant via pyrolysis for advance microbial fuel investigation*. Chemosphere, **2023**. 314: p. 137602.
80. Pang, K.-L., E.G. Jones, M.A. Abdel-Wahab, S.J. Adams, A. Alves, E. Azevedo, A.H. Bahkali, M. Barata, G. Burgaud, and M.F. Caeiro, *Recent progress in marine mycological research in different countries, and prospects for future developments worldwide*. Botanica Marina, **2023**(0).
81. Pappathi, M., P. Vajeeston, A.S. Sahaya Raja, A. Vignesh, A. Syed, A.H. Bahkali, L. Cathrine, J. Antoflorin Sekar, A. Roveena, and S.-M. Phang, *Trimetallic ZIF-Derived Ni-Cu/NC Rhombic Dodecahedron Nanostructures on Butter Sheet Paper as a Flexible Electrochemical Probe for Nonenzymatic Glucose Sensors*. ACS Applied Nano Materials, **2023**. 6(16): p. 14628-14644.
82. Raklami, A., F. Quintas-Nunes, F.X. Nascimento, M. Jemo, K. Oufdou, A. Syed, A.H. Bahkali, M. Verma, and A. Nafis, *Assessing the growth-promoting traits of actinobacteria spp. isolated from Cleome africana: Implications on growth and root enhancement of Medicago sativa*. Journal of King Saud University-Science, **2023**. 35(6): p. 102722.
83. Ren, X., M. Jiao, Z. Zhang, A. Syed, and A.H. Bahkali, *The efficient solution to decline the greenhouses emission and enrich the bacterial community during pig manure composting: Regulating the particle size of cornstalk*. Bioresource Technology, **2023**. 387: p. 129596.
84. Shafiq, I., M. Khalid, M.A. Asghar, M. Adeel, M.F. ur Rehman, A. Syed, A.H. Bahkali, A.M. Elgorban, and M.S. Akram, *Exploration of photovoltaic behavior of benzodithiophene based non-fullerene chromophores: first theoretical framework for highly efficient photovoltaic parameters*. Journal of Materials Research and Technology, **2023**. 24: p. 1882-1896.
85. Shahid, M., M.T. Zeyad, A. Syed, A.H. Bahkali, J. Pichtel, and M. Verma, *Assessing phytotoxicity and cyto-genotoxicity of two insecticides using a battery of in-vitro biological assays*. Mutation Research/Genetic Toxicology and Environmental Mutagenesis, **2023**. 891: p. 503688.
86. Shahzadi, A., U.A. Ashfaq, M. Khurshid, M.A. Nisar, A. Syed, and A.H. Bahkali, *Deciphering Multi-target Pharmacological Mechanism of Cucurbita pepo Seeds against Kidney Stones: Network Pharmacology and Molecular Docking Approach*. Current Pharmaceutical Design, **2023**.
87. Sivaranjani, P., A. Syed, A.M. Elgorban, A.H. Bahkali, R. Balakrishnaraja, R.S. Varma, and S.S. Khan, *Fabrication of ternary nano-heterojunction via hierarchical deposition of α -Fe₂O₃ and β -La₂S₃ on cubic CoCr₂O₄ for enhanced photodegradation of doxycycline*. Journal of Industrial and Engineering Chemistry, **2023**. 118: p. 407-417.
88. SU, P., Y. CHEN, A. SYED, A.H. BAHKALI, and S.S. MAHARACHCHIKUMBURA, *Taxonomic novelty in Sichuan Province, China: Veronaea polyconidia sp. nov.(Herpotrichiellaceae), a new addition to hyphomycetous fungi*. Phytotaxa, **2023**. 632(2): p. 118-130.

89. Syed, A., A.M. Elgorban, A.H. Bahkali, R. Eswaramoorthy, R.K. Iqbal, and S. Danish, *Metal-tolerant and siderophore producing Pseudomonas fluorescence and Trichoderma spp. improved the growth, biochemical features and yield attributes of chickpea by lowering Cd uptake*. Scientific Reports, **2023**. 13(1): p. 4471.
90. Syed, A., A.M. Elgorban, A.H. Bahkali, R. Eswaramoorthy, M. Verma, R.S. Varma, and B.J. Janani, *Highly-impressive performances of novel NiCo₂O₄/Bi₂O₃/Ag₂ZrO₃ nanocomposites in photocatalysis system, removal pathway, toxicity estimation, and antibacterial activities*. Journal of the Taiwan Institute of Chemical Engineers, **2023**. 149: p. 105004.
91. Verma, S., M.K. Awasthi, T. Liu, S.K. Awasthi, A. Syed, A.H. Bahkali, M. Verma, and Z. Zhang, *Influence of biochar on succession of fungal communities during food waste composting*. Bioresource Technology, **2023**. 385: p. 129437.
92. WU, K., W. TIAN, A. SYED, A.M. ELGORBAN, A.H. BAHKALI, and S.S. MAHARACHCHIKUMBURA, *Description of two new species of Roussoella (Roussoellaceae, Pleosporales) associated with bamboo from Sichuan Province, China*. Phytotaxa, **2023**. 607(4): p. 235-248.
93. Xu, C., S. Debnath, A. Syed, A.M. Elgorban, A.H. Bahkali, R. Eswaramaathy, M. Verma, M.M. Uddin Helal, and X. Jian, *Action of the plant-based essential oil-derived compound Taxol for improvising drought tolerance in Eucalyptus by modulating the VIT1 channel protein: a cutting-edge computational approach*. Frontiers in Genetics, **2023**. 14: p. 1165518.
94. Xu, Z., W. Liang, X. Zhang, X. Yang, S. Zhou, R. Li, A. Syed, A.H. Bahkali, M.K. Awasthi, and Z. Zhang, *Effects of magnesite on nitrogen conversion and bacterial community during pig manure composting*. Bioresource Technology, **2023**: p. 129325.
95. Yang, X., R. Li, J. Wang, W. Xu, Y. Wang, G. Yi, X. Zhang, J. Zhu, M. Mazarji, and A. Syed, *Exploring carbon conversion and balance with magnetite-amended during pig manure composting*. Bioresource Technology, **2023**. 388: p. 129707.
96. Syed, A.; Al Saedi, M.H.; Bahkali, A.H.; Elgorgan, A.M.; Kharat, M.; Pai, K.; Pichtel, J.; Ahmad, A. α Au₂S nanoparticles: Fungal-mediated synthesis, structural characterization and bioassay. *Green Chemistry Letters and Reviews* **2022**, 15, 59-68.
97. Srivastava, N.; Singh, R.; Srivastava, M.; Syed, A.; Pal, D.B.; Bahkali, A.H.; Mishra, P.; Gupta, V.K. Impact of mixed lignocellulosic substrate and fungal consortia to enhance cellulase production and its application in NiFe₂O₄ nanoparticles mediated enzymatic hydrolysis of wheat straw. *Bioresource Technology* **2022**, 345, 126560.
98. Sivaranjani, P.; Syed, A.; Elgorban, A.M.; Bahkali, A.H.; Balakrishnaraja, R.; Varma, R.S.; Khan, S.S. Fabrication of ternary nano-heterojunction via hierarchical deposition of α -Fe₂O₃ and β -La₂S₃ on cubic CoCr₂O₄ for enhanced photodegradation of doxycycline. *Journal of Industrial and Engineering Chemistry* **2022**.
99. Singhal, M.; Manchanda, R.; Syed, A.; Bahkali, A.H.; Nimesh, S.; Gupta, N. Design, synthesis and optimization of silver nanoparticles using Azadirachta indica bark extract and its antibacterial application. **2022**.
100. Shakeel, F.; Fazal, M.W.; Zulfiqar, A.; Zafar, F.; Akhtar, N.; Ahmed, A.; Ahmad, H.B.; Ahmed, S.; Syed, A.; Bahkali, A.H. Melamine-derived N-rich C-entrapped Au nanoparticles for sensitive and selective monitoring of dopamine in blood samples. *RSC advances* **2022**, 12, 26390-26399.

101. Shahid, M.; Zeyad, M.T.; Syed, A.; Singh, U.B.; Mohamed, A.; Bahkali, A.H.; Elgorban, A.M.; Pichtel, J. Stress-tolerant endophytic isolate *Priestia aryabhattai* BPR-9 modulates physio-biochemical mechanisms in wheat (*Triticum aestivum* L.) for enhanced salt tolerance. *International Journal of Environmental Research and Public Health* **2022**, *19*, 10883.
102. Saratale, G.D.; Shin, H.-S.; Shinde, S.K.; Kim, D.-Y.; Saratale, R.G.; Kadam, A.A.; Kumar, M.; Bahkali, A.H.; Syed, A.; Ghodake, G.S. Significance of Immune Status of SARS-CoV-2 Infected Patients in Determining the Efficacy of Therapeutic Interventions. *Journal of Personalized Medicine* **2022**, *12*, 349.
103. Saleem, T.; Khan, S.; Yaqub, M.; Khalid, M.; Islam, M.; ur Rehman, M.Y.; Rashid, M.; Shafiq, I.; Braga, A.A.; Syed, A. Novel quinoline-derived chemosensors: synthesis, anion recognition, spectroscopic, and computational study. *New Journal of Chemistry* **2022**, *46*, 18233-18243.
104. Rajeshwari, M.R.; Syed, A.; Bahkali, A.H.; Elgorban, A.M.; Rahiman, M.K.; Varma, R.S.; Khan, S.S. Enhanced photo-Fenton assisted photocatalytic degradation of atenolol using a novel rGO embedded double Z-scheme nano-heterojunction: Mechanism, kinetics and toxicity studies. *Journal of Industrial and Engineering Chemistry* **2022**, *115*, 402-415.
105. Pal, D.B.; Tiwari, A.K.; Mohammad, A.; Prasad, N.; Srivastava, N.; Srivastava, K.; Singh, R.; Yoon, T.; Syed, A.; Bahkali, A.H. Enhanced Biogas Production Potential Analysis of Rice Straw: Biomass characterization, Kinetics and Anaerobic Co-Digestion investigations. *Bioresource Technology* **2022**, 127391.
106. Nayab, D.-e.; Akhtar, S.; Bangash, N.; Nisa, W.-u.; Hayat, M.T.; Zulfiqar, A.; Niaz, M.; Qayyum, A.; Syed, A.; Bahkali, A.H. Production of Glucoamylase from Novel Strain of *Alternaria Alternata* under Solid State Fermentation. *BioMed Research International* **2022**, 2022.
107. Manikandan, V.; Packialakshmi, J.S.; Bharti, B.; Jayanthi, P.; Dhandapani, R.; Velmurugan, P.; Elango, D.; Paramasivam, R.; Mohanavel, V.; Syed, A. Efficient One-Pot Synthesis of TiO₂/ZrO₂/SiO₂ Ternary Nanocomposites Using *Prunus× Yedoensis* Leaf Extract for Enhanced Photocatalytic Dye Degradation. *Oxidative Medicine and Cellular Longevity* **2022**, 2022.
108. Kumar, A.; Raorane, C.J.; Syed, A.; Bahkali, A.H.; Elgorban, A.M.; Raj, V.; Kim, S.C. Synthesis of TiO₂, TiO₂/PANI, TiO₂/PANI/GO nanocomposites and photodegradation of anionic dyes Rose Bengal and thymol blue in visible light. *Environmental Research* **2022**, 114741.
109. Kokilavani, S.; Syed, A.; Thomas, A.M.; Elgorban, A.M.; Bahkali, A.H.; Zaghloul, N.S.; Raju, L.L.; Khan, S.S. Ag⁰ decorated Cr₂S₃ NPs embedded on PVP matrix: A colorimetric probe for selective and rapid detection of sulphide ions from environmental samples. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* **2022**, *264*, 120253.
110. Kokilavani, S.; Syed, A.; Elgorban, A.M.; Bahkali, A.H.; Al-Shwaiman, H.A.; Varma, R.S.; Das, A.; Khan, S.S. Designing Z-scheme AgIO₄ nanorod embedded with Bi₂S₃ nanoflakes for expeditious visible light photodegradation of congo red and rhodamine B. *Chemosphere* **2022**, *294*, 133755.
111. Kim, D.-Y.; Shinde, S.K.; Kadam, A.A.; Saratale, R.G.; Saratale, G.D.; Kumar, M.; Syed, A.; Bahkali, A.H.; Ghodake, G.S. Advantage of Species Diversification to Facilitate Sustainable Development of Aquaculture Sector. *Biology* **2022**, *11*, 368.
112. Khan, M.M.H.; Ahmed, N.; Naqvi, S.A.H.; Ahmad, B.; Dawar, K.; Rahi, A.A.; Shoaib, S.; Datta, R.; Fahad, S.; Syed, A. Synchronization of zinc and boron application methods and rates

for improving the quality and yield attributes of *Mangifera indica* L. on sustainable basis. *Journal of King Saud University-Science* **2022**, *34*, 102280.

113. Katepogu, H.; Wee, Y.J.; Chinni, S.V.; Gopinath, S.C.; Syed, A.; Bahkali, A.H.; Elgorban, A.M.; Lebaka, V.R. Lactic acid production from sugarcane field residue as renewable and economical bioresource by newly isolated *Pediococcus pentosaceus* HLV1. *Biomass Conversion and Biorefinery* **2022**, 1-11.
114. Jones, E.G.; Ramakrishna, S.; Vikineswary, S.; Das, D.; Bahkali, A.H.; Guo, S.-Y.; Pang, K.-L. How Do Fungi Survive in the Sea and Respond to Climate Change? *Journal of Fungi* **2022**, *8*, 291.
115. Janani, B.; Syed, A.; Raju, L.L.; Bahkali, A.H.; Al-Rashed, S.; Elgorban, A.M.; Ahmed, B.; Thomas, A.M.; Khan, S.S. Designing intimate porous Al₂O₃ decorated 2D CdO nano-heterojunction as enhanced white light driven photocatalyst and antibacterial agent. *Journal of Alloys and Compounds* **2022**, *896*, 162807.
116. Harini, G.; Syed, A.; Rahiman, M.K.; Bahkali, A.H.; Elgorban, A.M.; Varma, R.S.; Khan, S.S. Enhanced photodegradation of rifampicin and co-trimoxazole by ZnO/ZnMn₂O₄/ZnS-PVA and its genotoxicity studies on *Allium cepa*. *Chemosphere* **2022**, *308*, 136238.
117. Fareed, N.; Nisa, S.; Bibi, Y.; Fareed, A.; Ahmed, W.; Sabir, M.; Alam, S.; Sajjad, A.; Kumar, S.; Hussain, M. Green Synthesized Silver Nanoparticles Using Carrot Extract Exhibited Strong Antibacterial Activity against Multidrug Resistant Bacteria. *Journal of King Saud University-Science* **2022**, 102477.
118. Dawar, K.; Khalil, Z.; Mian, I.A.; Khan, B.; Ali, S.; Rahi, A.A.; Tahir, M.S.; Ahmed, N.; Fahad, S.; Danish, S. Effects of Farmyard Manure and Different Phosphorus Inorganic Fertilizer Application Rates on Wheat Cultivation in Phosphorus-Deficient Soil. *Sustainability* **2022**, *14*, 9030.
119. Azam, A.; Muhammad, G.; Aslam, M.S.; Iqbal, M.M.; Raza, M.A.; Akhtar, N.; Hussain, M.A.; Sajjad, N.; Syed, A.; Bahkali, A.H. Enhanced bactericidal and in vivo wound healing potential of biosynthesized zinc oxide nanoparticles from *psyllium mucilage*. *Applied Organometallic Chemistry* **2022**, e6923.
120. Arif, N.; Shafiq, Z.; Mahmood, K.; Rafiq, M.; Naz, S.; Shahzad, S.A.; Farooq, U.; Bahkali, A.H.; Elgorban, A.M.; Yaqub, M. Synthesis, Biological Evaluation, and In Silico Studies of Novel Coumarin-Based 4 H, 5 H-pyrano [3, 2-c] chromenes as Potent β -Glucuronidase and Carbonic Anhydrase Inhibitors. *ACS omega* **2022**, *7*, 28605-28617.
121. Ansary, A.A.; Syed, A.; Elgorban, A.M.; Bahkali, A.H.; Varma, R.S.; Khan, M.S. Neodymium Selenide Nanoparticles: Greener Synthesis and Structural Characterization. *Biomimetics* **2022**, *7*, 150.
122. Almansob, A.; Bahkali, A.H.; Ameen, F. Efficacy of Gold Nanoparticles against Drug-Resistant Nosocomial Fungal Pathogens and Their Extracellular Enzymes: Resistance Profiling towards Established Antifungal Agents. *Nanomaterials* **2022**, *12*, 814.
123. Almansob, A.; Bahkali, A.H.; Albarrag, A.; Alshomrani, M.; Binjomah, A.; Hailan, W.A.; Ameen, F. Effective treatment of resistant opportunistic fungi associated with immunocompromised individuals using silver biosynthesized nanoparticles. *Applied Nanoscience* **2022**, 1-12.
124. AL-Shwaiman, H.A.; Akshhayya, C.; Syed, A.; Bahkali, A.H.; Elgorban, A.M.; Das, A.; Varma, R.S.; Khan, S.S. Fabrication of intimately coupled CeO₂/ZnFe₂O₄ nano-heterojunction for

visible-light photocatalysis and bactericidal application. *Materials Chemistry and Physics* **2022**, 279, 125759.

125. Al-Harathi, H.F.; Baker, A.; Elgorban, A.M.; Bahkali, A.H.; Shaikh, A.M.; Kovács, B.; Khan, M.S.; Syed, A. Novel Bioengineered Antibacterial and Anticancer ZnO Nanoparticles. *Journal of Biomedical Nanotechnology* **2022**, 18, 1106-1120.
126. Akshhayya, C.; Swedha, M.; Elgorban, A.M.; Bahkali, A.H.; Varma, R.S.; Younus, M.; Balakrishnaraja, R.; Syed, A.; Khan, S.S. Intimate coupling of 3D MnFe₂O₄ cubes on 1D ZnO nanorods for sustainable photocatalysis under visible light: Computational analysis of reactive sites and degradation pathway. *Journal of the Taiwan Institute of Chemical Engineers* **2022**, 141, 104558.
127. Akbar, R.; Khan, I.A.; Faheem, B.; Azad, R.; Zaman, M.; Altaf, R.; Usman, A.; Fawad, M.; Farid, A.; Saljoqi, A.U.R. Biorational Control of *Callosobruchus maculatus* (Coleoptera: Bruchidae) in Stored Grains with Botanical Extracts. *BioMed Research International* **2022**, 2022.
128. Ahmed, B.; Elgorban, A.M.; Bahkali, A.H.; Lee, J.; Syed, A. SPR based gold nano-probe as optical sensor for cysteine detection via plasmonic enhancement in the presence of Cr³⁺. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* **2022**, 265, 120356.
129. Abdel-Wahab, M.A.; Jones, E.; Elgorban, A.M.; Bahkali, A.H. *Torpedospora yanbuensis* sp. nov. (Torpedosporales, Sordariomycetes), a new marine fungus from the Red Sea mangroves, Saudi Arabia. *Nova Hedwigia* **2022**, 393-404.
130. Abdel-Wahab, M.A.; El-Samawaty, A.E.-R.M.; Elgorban, A.M.; Bahkali, A.H. Utilization of low-cost substrates for the production of high biomass, lipid and docosahexaenoic acid (DHA) using local native strain *Aurantiochytrium* sp. YB-05. *Journal of King Saud University-Science* **2022**, 34, 102224.
131. Venkatachalapathy, D.; Shivamallu, C.; Prasad, S.K.; Thangaraj Saradha, G.; Rudrapathy, P.; Amachawadi, R.G.; Patil, S.S.; Syed, A.; Elgorban, A.M.; Bahkali, A.H. Assessment of Chemopreventive Potential of the Plant Extracts against Liver Cancer Using HepG2 Cell Line. *Molecules* **2021**, 26, 4593.
132. Syed, A.; Ghodake, G.; Elgorban, A.M.; Bahkali, A.H.; Alkhelaiwi, F. Development of Ag decorated Au core-shell nanospheres for the detection of Cr (III) from environmental sample. *Optical Materials* **2021**, 120, 111409.
133. Syed, A.; Elgorban, A.M.; Bahkali, A.H.; Zaghloul, N.S. Coupling of nano-spinel MgFe₂O₄ on Co₃O₄ for heterogeneous photocatalysis and antibacterial applications: Insights of optoelectrical properties. *Colloid and Interface Science Communications* **2021**, 44, 100467.
134. Syed, A.; Elgorban, A.M.; Bahkali, A.H.; Sillanpää, M. Visible-light sensitization and recombination delay through coupling CaFe₂O₄ on Bi₂O₃ nanocomposite for high performance photocatalytic and antibacterial applications. *Surfaces and Interfaces* **2021**, 26, 101336.
135. Syed, A.; Elgorban, A.M.; Bahkali, A.H. Improved visible-light driven photocatalysis of a novel heterostructure by the decoration of CuS on Ag₂MoO₄ nanorod: Synthesis, characterization, elucidation of photocatalytic mechanism and anti-microbial application. *Colloids and Surfaces A: Physicochemical and Engineering Aspects* **2021**, 629, 127371.
136. Syed, A.; Elgorban, A.; Bahkali, A.; Khan, S. Mesoporous CdO/Al₂O₃ nanocomposite with enhanced optoelectronic properties for visible-light photocatalysis and bactericidal applications. **2021**.

137. Syed, A.; Bahkali, A.H.; Elgorban, A.M. Enhanced antibacterial and visible light driven photocatalytic activity of CaFe₂O₄ doped CdO heterojunction nanohybrid particles prepared by sono-chemical method. *Optical Materials* **2021**, *113*, 110595.
138. Syed, A.; Al Saedi, M.H.; Bahkali, A.H.; Elgorban, A.M.; Kharat, M.; Pai, K.; Ghodake, G.; Ahmad, A. Biological synthesis of α -Ag₂S composite nanoparticles using the fungus *Humicola* sp. and its biomedical applications. *Journal of Drug Delivery Science and Technology* **2021**, *66*, 102770.
139. Syed, A.; Ahmed, B.; Elgorban, A.M.; Bahkali, A.H.; Lee, J.; Rajput, V.D.; Minkina, T. Designing spinel CoFe₂O₄ loaded sheet-like Bi₂O₃ nano-heterostructure for synergetic white-light photocatalysis with recombination delay and antibacterial applications. *Colloids and Surfaces A: Physicochemical and Engineering Aspects* **2021**, *629*, 127449.
140. Singhal, M.; Chatterjee, S.; Kumar, A.; Syed, A.; Bahkali, A.H.; Gupta, N.; Nimesh, S. Exploring the Antibacterial and Antibiofilm Efficacy of Silver Nanoparticles Biosynthesized Using *Punica granatum* Leaves. *Molecules* **2021**, *26*, 5762.
141. Shinde, S.K.; Kim, D.-Y.; Saratale, R.G.; Kadam, A.A.; Saratale, G.D.; Syed, A.; Bahkali, A.H.; Ghodake, G.S. Histidine Functionalized Gold Nanoparticles for Screening Aminoglycosides and Nanomolar Level Detection of Streptomycin in Water, Milk, and Whey. *Chemosensors* **2021**, *9*, 358.
142. Shetgaonkar, S.E.; Kollur, S.P.; Pillai, R.R.; Thangavel, K.; Armaković, S.J.; Armaković, S.; Shivamallu, C.; Amachawadi, R.G.; Syed, A.; Elgorban, A.M. Investigation of Pharmaceutical Importance of 2H-Pyran-2-One Analogues via Computational Approaches. *Symmetry* **2021**, *13*, 1619.
143. Shahid, M.; Khan, M.S.; Ahmed, B.; Syed, A.; Bahkali, A.H. Physiological disruption, structural deformation and low grain yield induced by neonicotinoid insecticides in chickpea: A long term phytotoxicity investigation. *Chemosphere* **2021**, *262*, 128388.
144. Pradeep, S.; Jain, A.S.; Dharmashekara, C.; Prasad, S.K.; Akshatha, N.; Pruthvish, R.; Amachawadi, R.G.; Srinivasa, C.; Syed, A.; Elgorban, A.M. Synthesis, Computational Pharmacokinetics Report, Conceptual DFT-Based Calculations and Anti-Acetylcholinesterase Activity of Hydroxyapatite Nanoparticles Derived From *Acorus Calamus* Plant Extract. *Frontiers in chemistry* **2021**, 826.
145. Patil, S.S.; Shinduja, R.; Suresh, K.P.; Phukan, S.; Kumar, S.; Sengupta, P.P.; G. Amachawadi, R.; Raut, A.; Roy, P.; Syed, A.; Marraiki, N.; Elgorban, A.M.; Al-Harthi, H.F.; Bahkali, A.H.; Shivamallu, C.; Shiva Prasad, K. A systematic review and meta-analysis on the prevalence of infectious diseases of Duck: A world perspective. *Saudi Journal of Biological Sciences* **2021**, <https://doi.org/10.1016/j.sjbs.2021.05.034>, doi:<https://doi.org/10.1016/j.sjbs.2021.05.034>.
146. Patil, S.S.; Shinduja, R.; Suresh, K.P.; Phukan, S.; Kumar, S.; Sengupta, P.P.; Amachawadi, R.G.; Raut, A.; Roy, P.; Syed, A. A systematic review and meta-analysis on the prevalence of infectious diseases of Duck: A world perspective. *Saudi journal of biological sciences* **2021**, *28*, 5131-5144.
147. Paramanantham, P.; Siva, G.; Syed, A.; Elgorban, A.M.; Gani, M.A.; Bahkali, A.H.; Kandaswamy, R.; Muthupandi, P.; Kumar, Y.S. Sulfonated PVdF-HFP/shuttle-like SrBaWO₄ nanocomposite membranes for the evolution of high performance and durable DMFCs. *Solid State Ionics* **2021**, *372*, 115776.

148. Kusale, S.P.; Attar, Y.C.; Sayyed, R.; El Enshasy, H.; Hanapi, S.Z.; Ilyas, N.; Elgorban, A.M.; Bahkali, A.H.; Marraiki, N. Inoculation of *Klebsiella variicola* Alleviated Salt Stress and Improved Growth and Nutrients in Wheat and Maize. *Agronomy* **2021**, *11*, 927.
149. Kumari, M.; Sharma, N.; Manchanda, R.; Gupta, N.; Syed, A.; Bahkali, A.H.; Nimesh, S. PGMD/curcumin nanoparticles for the treatment of breast cancer. *Scientific reports* **2021**, *11*, 1-17.
150. Kokilavani, S.; Syed, A.; Thomas, A.M.; Elgorban, A.M.; Bahkali, A.H.; Marraiki, N.; Raju, L.L.; Das, A.; Khan, S.S. Development of multifunctional Cu sensitized Ag-dextran nanocomposite for selective and sensitive detection of mercury from environmental sample and evaluation of its photocatalytic and anti-microbial applications. *Journal of Molecular Liquids* **2021**, *321*, 114742.
151. Kokilavani, S.; Syed, A.; Rajeshwari, M.R.; Subhiksha, V.; Elgorban, A.M.; Bahkali, A.H.; Zaghloul, N.S.; Das, A.; Khan, S.S. Decoration of Ag₂WO₄ on plate-like MnS for mitigating the charge recombination and tuned bandgap for enhanced white light photocatalysis and antibacterial applications. *Journal of Alloys and Compounds* **2021**, *889*, 161662.
152. Kokilavani, S.; Syed, A.; Kumar, B.H.; Elgorban, A.M.; Bahkali, A.H.; Ahmed, B.; Das, A.; Khan, S.S. Facile synthesis of MgS/Ag₂MoO₄ nanohybrid heterojunction: Outstanding visible light harvesting for boosted photocatalytic degradation of MB and its anti-microbial applications. *Colloids and Surfaces A: Physicochemical and Engineering Aspects* **2021**, *127097*.
153. Kizhakkumpat, A.; Syed, A.; Elgorban, A.M.; Bahkali, A.H.; Khan, S.S. The toxicity analysis of PVP, PVA and PEG surface functionalized ZnO nanoparticles on embryonic as well as adult *Danio rerio*. *Environmental Monitoring and Assessment* **2021**, *193*, 1-11.
154. Kendaganna, P.H.; Shivamallu, C.; Shruthi, G.; Chitagudigi, M.N.; Pradeep, S.; Karunakar, P.; Raghavendra, A.G.; Patil, S.S.; Syed, A.; Elgorban, A.M. In Silico Screening and Validation of KPHS_00890 Protein of *Klebsiella pneumoniae* Proteome: An Application to Bacterial Resistance and Pathogenesis. *Journal of King Saud University-Science* **2021**, *33*, 101537.
155. Jiang, H.-B.; Hyde, K.D.; Yang, E.-F.; Kakumyan, P.; Bahkali, A.H.; Elgorban, A.M.; Karunarathna, S.C.; Phookamsak, R.; Lumyong, S. Morphological and phylogenetic appraisal of *Ophioceras* (Ophioceraceae, Magnaporthales). *PloS one* **2021**, *16*, e0253853.
156. Janani, B.; Syed, A.; Sruthi, L.; Sivaranjani, P.; Elgorban, A.M.; Bahkali, A.H.; Zaghloul, N.S.; Badawy, M.M.; Das, A.; Khan, S.S. Visible light driven photocatalytic activity and efficient antibacterial activity of ZnFe₂O₄ decorated CdO nanohybrid heterostructures synthesized by ultrasonic-assisted method. *Colloids and Surfaces A: Physicochemical and Engineering Aspects* **2021**, *628*, 127307.
157. Janani, B.; Syed, A.; Kumar, B.H.; Elgorban, A.M.; Bahkali, A.H.; Ahmed, B.; Das, A.; Khan, S.S. High performance MnO₂-Al₂O₃ nanocomposite as white light photocatalyst and bactericidal agent: Insights on photoluminescence and intrinsic mechanism. *Optical Materials* **2021**, *120*, 111438.
158. Janani, B.; Syed, A.; Elgorban, A.M.; Bahkali, A.H.; Khan, S.S. Mesoporous CdO/Al₂O₃ nanocomposite with enhanced optoelectronic properties for visible-light photocatalysis and bactericidal applications. **2021**.
159. Jabborova, D.; Kannepalli, A.; Davranov, K.; Narimanov, A.; Enakiev, Y.; Syed, A.; Elgorban, A.M.; Bahkali, A.H.; Wirth, S.; Sayyed, R. Co-inoculation of rhizobacteria promotes growth,

yield, and nutrient contents in soybean and improves soil enzymes and nutrients under drought conditions. *Scientific Reports* **2021**, *11*, 1-9.

160. Elgorban, A.M.; Al Kheraif, A.A.; Syed, A. Construction of Ag₂WO₄ decorated CoWO₄ nano-heterojunction with recombination delay for enhanced visible light photocatalytic performance and its antibacterial applications. *Colloids and Surfaces A: Physicochemical and Engineering Aspects* **2021**, *629*, 127416.
161. Devadatha, B.; Jones, E.; Pang, K.; Abdel-Wahab, M.; Hyde, K.; Sakayaroj, J.; Bahkali, A.; Calabon, M.; Sarma, V.; Sutreong, S. Occurrence and geographical distribution of mangrove fungi. *Fungal Diversity* **2021**, *106*, 137-227.
162. Baker, A.; Iram, S.; Syed, A.; Elgorban, A.M.; Bahkali, A.H.; Ahmad, K.; Khan, M.S.; Kim, J. Fruit Derived Potentially Bioactive Bioengineered Silver Nanoparticles. *International journal of nanomedicine* **2021**, *16*, 7711.
163. Baker, A.; Iram, S.; Syed, A.; Elgorban, A.M.; Al-Falih, A.M.; Bahkali, A.H.; Khan, M.S.; Kim, J. Potentially Bioactive Fungus Mediated Silver Nanoparticles. *Nanomaterials* **2021**, *11*, 3227.
164. Ashraf, A.; Islam, M.; Khalid, M.; Davis, A.P.; Ahsan, M.T.; Yaqub, M.; Syed, A.; Elgorban, A.M.; Bahkali, A.H.; Shafiq, Z. Naphthyrindine derived colorimetric and fluorescent turn off sensors for Ni²⁺ in aqueous media. *Scientific reports* **2021**, *11*, 1-13.
165. Almoammar, H.; Bahkali, A.H.; Abd-Elsalam, K.A. Fungal infestation and mycotoxin contamination in camel feedstuffs in Saudi Arabia. *Life Science Journal* **2021**, *18*.
166. Al-Rashed, S.; Marraiki, N.; Syed, A.; Elgorban, A.M.; Prasad, K.S.; Shivamallu, C.; Bahkali, A.H. Bioremediation characteristics, influencing factors of dichlorodiphenyltrichloroethane (DDT) removal by using non-indigenous *Paracoccus* sp. *Chemosphere* **2021**, *270*, 129474.
167. Al-Rashed, S.; Baker, A.; Ahmad, S.S.; Syed, A.; Bahkali, A.H.; Elgorban, A.M.; Khan, M.S. Vincamine, a safe natural alkaloid, represents a novel anticancer agent. *Bioorganic Chemistry* **2021**, *107*, 104626.
168. Ahmed, B.; Syed, A.; Rizvi, A.; Shahid, M.; Bahkali, A.H.; Khan, M.S.; Musarrat, J. Impact of metal-oxide nanoparticles on growth, physiology and yield of tomato (*Solanum lycopersicum* L.) modulated by *Azotobacter salinestris* strain ASM. *Environmental Pollution* **2021**, *269*, 116218.
169. Ahmed, B.; Shahid, M.; Syed, A.; Rajput, V.D.; Elgorban, A.M.; Minkina, T.; Bahkali, A.H.; Lee, J. Drought Tolerant *Enterobacter* sp./*Leclercia adecarboxylata* Secretes Indole-3-acetic Acid and Other Biomolecules and Enhances the Biological Attributes of *Vigna radiata* (L.) R. Wilczek in Water Deficit Conditions. *Biology* **2021**, *10*, 1149.
170. Ahmed, B.; Shahid, M.; Syed, A.; Rajput, V.; Elgorban, A.; Minkina, T.; Bahkali, A.; Lee, J. Drought Tolerant *Enterobacter* sp./*Leclercia adecarboxylata* se-cretes Indole-3-Acetic Acid and other Biomolecules and En-hances the Biological Attributes of *Vigna ra-diata* (L.) R. Wilczek in Water Deficit Conditions. *Biology* **2021**, *10*, 1149. s Note: MDPI stays neutral with regard to jurisdictional claims in ...: 2021.
171. Abdel-Wahab, M.A.; El-Samawaty, A.E.-R.M.; Elgorban, A.M.; Bahkali, A.H. Thraustochytrids from the Red Sea mangroves in Saudi Arabia and their abilities to produce docosaheanoic acid. *Botanica Marina* **2021**, *64*, 489-501.

172. Abdel-Wahab, M.A.; El-Samawaty, A.E.-R.M.; Elgorban, A.M.; Bahkali, A.H. Fatty acid production of thraustochytrids from Saudi Arabian mangroves. *Saudi Journal of Biological Sciences* **2021**, *28*, 855-864.
173. Abdel-Wahab, M.A.; Bahkali, A.H.; Elgorban, A.M.; Jones, E. High-throughput amplicon sequencing of fungi and microbial eukaryotes associated with the seagrass *Halophila stipulacea* (Forssk.) Asch. from Al-Leith mangroves, Saudi Arabia. *Mycological Progress* **2021**, *20*, 1365-1381.
174. Abdel-Wahab, M.; Bahkali, A.H.; El-Gorban, A.M.; Jones, G. Metagenomics Study of Fungi and Fungi-Like Organisms Associated With the Seagrass *Halophila Stipulacea* (Forssk.) Asch. From Al-Leith Mangroves, Saudi Arabia. **2021**.
175. Yuan, H.-S.; Lu, X.; Dai, Y.-C.; Hyde, K.D.; Kan, Y.-H.; Kušan, I.; He, S.-H.; Liu, N.-G.; Sarma, V.V.; Zhao, C.-L. Fungal diversity notes 1277–1386: taxonomic and phylogenetic contributions to fungal taxa. *Fungal Diversity* **2020**, *104*, 1-266.
176. Syed, A.; Yadav, L.S.R.; Bahkali, A.H.; Elgorban, A.M.; Abdul Hakeem, D.; Ganganagappa, N. Effect of CeO₂-ZnO Nanocomposite for Photocatalytic and Antibacterial Activities. *Crystals* **2020**, *10*, 817.
177. Suriani, N.L.; Suprpta, D.N.; Nazir, N.; Parwanayoni, N.M.S.; Darmad, A.A.K.; Dewi, D.A.; Sudatri, N.W.; Fudholi, A.; Sayyed, R.; Syed, A. Potential of Bioactive Substances of Piper caninum and Piper betle Var. Nigra Leaves as Biopesticide in Organic Bali Rice. **2020**.
178. Siddhardha, B.; Pandey, U.; Kaviyarasu, K.; Pala, R.; Syed, A.; Bahkali, A.H.; Elgorban, A.M. Chrysin-loaded chitosan nanoparticles potentiates antibiofilm activity against *Staphylococcus aureus*. *Pathogens* **2020**, *9*, 115.
179. Sharma, N.; Singhal, M.; Kumari, R.M.; Gupta, N.; Manchanda, R.; Syed, A.; Bahkali, A.H.; Nimesh, S. Diosgenin Loaded Polymeric Nanoparticles with Potential Anticancer Efficacy. *Biomolecules* **2020**, *10*, 1679.
180. Sharma, N.; Kumari, R.M.; Gupta, N.; Syed, A.; Bahkali, A.H.; Nimesh, S. Poly-(Lactic-co-Glycolic) Acid Nanoparticles for Synergistic Delivery of Epirubicin and Paclitaxel to Human Lung Cancer Cells. *Molecules* **2020**, *25*, 4243.
181. Parasuraman, P.; R Y, T.; Shaji, C.; Sharan, A.; Bahkali, A.H.; Al-Harthi, H.F.; Syed, A.; Anju, V.; Dyavaiah, M.; Siddhardha, B. Biogenic silver nanoparticles decorated with methylene blue potentiated the photodynamic inactivation of *Pseudomonas aeruginosa* and *Staphylococcus aureus*. *Pharmaceutics* **2020**, *12*, 709.
182. Marouf, S.; Moussa, I.M.; Salem, H.; Sedeik, M.; Elbestawy, A.; Hemeg, H.A.; Dawoud, T.M.; Mubarak, A.S.; Mahmoud, H.; Alsubki, R.A. A picture of *Mycoplasma gallisepticum* and *Mycoplasma synoviae* in poultry in Egypt: Phenotypic and genotypic characterization. *Journal of King Saud University-Science* **2020**, *32*, 2263-2268.
183. Luh Suriani, N.; Ngurah Suprpta, D.; Nazir, N.; Made Susun Parwanayoni, N.; Agung Ketut Darmadi, A.; Andya Dewi, D.; Sudatri, N.W.; Fudholi, A.; Sayyed, R.; Syed, A. A Mixture of Piper Leaves Extracts and Rhizobacteria for Sustainable Plant Growth Promotion and Bio-Control of Blast Pathogen of Organic Bali Rice. *Sustainability* **2020**, *12*, 8490.
184. Li, F.; Song, L.; Yang, X.; Huang, Z.; Mou, X.; Syed, A.; Bahkali, A.H.; Zheng, L. Anticancer and genotoxicity effect of (*Clausena lansium* (Lour.) Skeels) Peel ZnONPs on neuroblastoma (SH-SY5Y) cells through the modulation of autophagy mechanism. *Journal of Photochemistry and Photobiology B: Biology* **2020**, *203*, 111748.

185. Khan, S.; Shahid, M.; Khan, M.S.; Syed, A.; Bahkali, A.H.; Elgorban, A.M.; Pichtel, J. Fungicide-tolerant plant growth-promoting rhizobacteria mitigate physiological disruption of white radish caused by fungicides used in the field cultivation. *International journal of environmental research and public health* **2020**, *17*, 7251.
186. Jones, E.G.; Devadatha, B.; Abdel-Wahab, M.A.; Dayarathne, M.C.; Zhang, S.-N.; Hyde, K.D.; Liu, J.-K.J.; Bahkali, A.H.; Sarma, V.V.; Tibell, S. Phylogeny of new marine Dothideomycetes and Sordariomycetes from mangroves and deep-sea sediments. *Botanica Marina* **2020**, *63*, 155-181.
187. Janani, B.; Syed, A.; Thomas, A.M.; Bahkali, A.H.; Elgorban, A.M.; Raju, L.L.; Khan, S.S. UV-vis spectroscopic method for the sensitive and selective detection of mercury by silver nanoparticles in presence of alanine. *Optik* **2020**, *204*, 164160.
188. Jabborova, D.; Wirth, S.; Kannepalli, A.; Narimanov, A.; Desouky, S.; Davranov, K.; Sayyed, R.Z.; El Enshasy, H.; Malek, R.A.; Syed, A. Co-inoculation of rhizobacteria and biochar application improves growth and nutrients in soybean and enriches soil nutrients and enzymes. *Agronomy* **2020**, *10*, 1142.
189. Hyde, K.D.; Dong, Y.; Phookamsak, R.; Jeewon, R.; Bhat, D.J.; Jones, E.G.; Liu, N.-G.; Abeywickrama, P.D.; Mapook, A.; Wei, D. Fungal diversity notes 1151–1276: taxonomic and phylogenetic contributions on genera and species of fungal taxa. *Fungal Diversity* **2020**, *100*, 5-277.
190. Balasurya, S.; Syed, A.; Thomas, A.M.; Bahkali, A.H.; Elgorban, A.M.; Raju, L.L.; Khan, S.S. Highly sensitive and selective colorimetric detection of arginine by polyvinylpyrrolidone functionalized silver nanoparticles. *Journal of Molecular Liquids* **2020**, *300*, 112361.
191. Balasurya, S.; Syed, A.; Thomas, A.M.; Bahkali, A.H.; Al-Rashed, S.; Elgorban, A.M.; Raju, L.L.; Das, A.; Khan, S.S. Preparation of Ag-cellulose nanocomposite for the selective detection and quantification of mercury at nanomolar level and the evaluation of its photocatalytic performance. *International Journal of Biological Macromolecules* **2020**, *164*, 911-919.
192. Ankegowda, V.M.; Kollur, S.P.; Prasad, S.K.; Pradeep, S.; Dhramashekara, C.; Jain, A.S.; Prasad, A.; Srinivasa, C.; Sridhara Setty, P.B.; Gopinath, S. Phyto-mediated synthesis of silver nanoparticles using Terminalia chebula fruit extract and evaluation of its cytotoxic and antimicrobial potential. *Molecules* **2020**, *25*, 5042.
193. Alyamani, E.; Booq, R.; Bahkali, A.; Alharbi, S. Effect of Denitrifying Bacterial Biomass and Carbon Sources on Nitrate Removal. *J Pure Appl Microbiol* **2020**, *14*, 2417-2424.
194. Alyamani, E.; Booq, R.; Bahkali, A.; Alharbi, S. Biological Removal of Nitrates from Groundwater Resources in Saudi Arabia. *J Pure Appl Microbiol* **2020**, *14*, 2203-2213.
195. Alothman, Z.A.; Bahkali, A.H.; Khiyami, M.A.; Alfadul, S.M.; Wabaidur, S.M.; Alam, M.; Alfarhan, B.Z. Low cost biosorbents from fungi for heavy metals removal from wastewater. *Separation Science and Technology* **2020**, *55*, 1766-1775.
196. Alothman, Z.A.; Bahkali, A.H.; Elgorban, A.M.; Al-Otaibi, M.S.; Ghfar, A.A.; Gabr, S.A.; Wabaidur, S.M.; Habila, M.A.; Ahmed, A.Y.B.H. Bioremediation of Explosive TNT by Trichoderma viride. *Molecules* **2020**, *25*, 1393.
197. Abdelwahab, T.A.M.; Mohanty, M.K.; Sahoo, P.K.; Behera, D. Application of nanoparticles for biogas production: Current status and perspectives. *Energy sources, part a: recovery, utilization, and environmental Effects* **2020**, 1-13.

198. Abdel-Aziz, F.A.; Bahkali, A.H.; Elgorban, A.M.; Abdel-Wahab, M.A. *Pleurotheciella nilotica* sp. nov.(Pleurotheciales, Ascomycota) from freshwater habitats in Egypt. *Nova Hedwigia* **2020**, 91-98.
199. Jones, E.G.; Pang, K.-L.; Abdel-Wahab, M.A.; Scholz, B.; Hyde, K.D.; Boekhout, T.; Ebel, R.; Rateb, M.E.; Henderson, L.; Sakayaroj, J. An online resource for marine fungi. *Fungal Diversity* **2019**, 96, 347-433.
200. Elgorban, A.M.; Bahkali, A.H.; Al Farraj, D.A.; Abdel-Wahab, M.A. Natural products of *Alternaria* sp., an endophytic fungus isolated from *Salvadora persica* from Saudi Arabia. *Saudi journal of biological sciences* **2019**, 26, 1068-1077.
201. Abdel-Wahab, M.A.; Jones, E.G.; Bahkali, A.H.; El-Gorban, A.M. Marine fungi from Red Sea mangroves in Saudi Arabia with *Fulvocentrum rubrum* sp. nov.(Torpedosporales, Ascomycota). *Nova Hedwigia* **2019**, 108, 365-377.
202. Abdel-Wahab, M.A.; JONES, E.G.; Abdel-Aziz, F.A.; Bahkali, A.H. *Nia lenicarpa* sp. nov.(Niaceae, Agaricales) from Red Sea mangroves in Saudi Arabia with comments on *Nia vibrissa*. *Phytotaxa* **2019**, 406, 157-168.
203. Zahera, M.; Khan, S.A.; Khan, I.A.; Elgorban, A.M.; Bahkali, A.H.; Alghamdi, S.M.; Khan, M.S. Enhancing using glucose encapsulation, the efficacy of CdO NPs against multi-drug resistant *Escherichia coli*. *Microbial pathogenesis* **2018**, 119, 42-48.
204. Wanasinghe, D.N.; Phukhamsakda, C.; Hyde, K.D.; Jeewon, R.; Lee, H.B.; Jones, E.G.; Tibpromma, S.; Tennakoon, D.S.; Dissanayake, A.J.; Jayasiri, S.C. Fungal diversity notes 709–839: taxonomic and phylogenetic contributions to fungal taxa with an emphasis on fungi on Rosaceae. *Fungal diversity* **2018**, 89, 1-236.
205. Senwanna, C.; Phookamsak, R.; Bahkali, A.H.; Elgorban, A.M.; Cheewangkoon, R.; Hyde, K.D. *Neolinocarpon phayaoense* sp. nov.(Linocarpaceae) from Thailand. *Phytotaxa* **2018**, 362, 77-86.
206. Pradeepkumar, P.; Elgorban, A.M.; Bahkali, A.H.; Rajan, M. Natural solvent-assisted synthesis of amphiphilic co-polymeric nanomicelles for prolonged release of camptothecin delivery. *New Journal of Chemistry* **2018**, 42, 10366-10375.
207. Khan, S.T.; Ahmad, J.; Wahab, R.; Hirad, A.H.; Musarrat, J.; Al - Khedhairi, A.A.; Bahkali, A.H. An improved method of DNA preparation for PCR - based detection of *Brucella* in raw camel milk samples from Riyadh region and its comparison with immunological methods. *Journal of Food Safety* **2018**, 38, e12381.
208. Jiang, H.B.; Phookamsak, R.; Bhat, D.J.; Khan, S.; Bahkali, A.H.; Elgorban, A.M.; Hyde, K.D. *Vamsapriya yunnana*, a new species of *Vamsapriya* (Xylariaceae, Xylariales) associated with bamboo from Yunnan, China. *Phytotaxa* **2018**, 356, 061-070.
209. Hirad, A.H.; Ahmad, J.; Alkhedhairi, A.A.; Bahkali, A.H.; Khan, S.T. Bacterial isolates exhibiting multidrug resistance, hemolytic activity, and high 16S rRNA gene similarity with well - known pathogens found in camel milk samples of Riyadh region. *Apmis* **2018**, 126, 215-226.
210. Wijayawardene, N.N.; Hyde, K.D.; Rajeshkumar, K.C.; Hawksworth, D.L.; Madrid, H.; Kirk, P.M.; Braun, U.; Singh, R.V.; Crous, P.W.; Kukwa, M. Notes for genera: Ascomycota. *Fungal diversity* **2017**, 86, 1-594.

211. Tibpromma, S.; Hyde, K.D.; Jeewon, R.; Maharachchikumbura, S.S.; Liu, J.-K.; Bhat, D.J.; Jones, E.G.; McKenzie, E.H.; Camporesi, E.; Bulgakov, T.S. Fungal diversity notes 491–602: taxonomic and phylogenetic contributions to fungal taxa. *Fungal diversity* **2017**, *83*, 1-261.
212. Thambugala, K.M.; Daranagama, D.A.; Phillips, A.J.; Bulgakov, T.S.; Bhat, D.J.; Camporesi, E.; Bahkali, A.H.; Eungwanichayapant, P.D.; Liu, Z.-Y.; Hyde, K.D. Microfungi on Tamarix. *Fungal Diversity* **2017**, *82*, 239-306.
213. Somrithipol, S.; Jones, E.G.; Bahkali, A.; Suetrong, S.; Sommai, S.; Chamoi, C.; Johnston, P.R.; Cooper, J.A.; Rungjindamai, N. Lauriomyces, a new lineage in the Leotiomyces with three new species. *Cryptogamie, Mycologie* **2017**, *38*, 259-273.
214. Perera, R.H.; Maharachchikumbura, S.S.; Jones, E.G.; Bahkali, A.H.; Elgorban, A.M.; Liu, J.-K.; Liu, Z.-Y.; Hyde, K.D. Delonicicola siamense gen. & sp. nov. (Delonicicolaceae fam. nov., Delonicicolales ord. nov.), a saprobic species from Delonix regia seed pods. *Cryptogamie, Mycologie* **2017**, *38*, 321-340.
215. Lin, C.-G.; Dai, D.-Q.; Bhat, D.J.; Hyde, K.D.; Tang, L.-Z.; Lumyong, S.; McKenzie, E.H.; Bahkali, A.H. Alfaria avenellae sp. nov. from Italy. *Phytotaxa* **2017**, *332*, 67-74.
216. Li, J.-F.; Phookamsak, R.; Jeewon, R.; Bhat, D.J.; Mapook, A.; Camporesi, E.; Shang, Q.-J.; Chukeatirote, E.; Bahkali, A.H.; Hyde, K.D. Molecular taxonomy and morphological characterization reveal new species and new host records of Torula species (Torulaceae, Pleosporales). *Mycological progress* **2017**, *16*, 447-461.
217. Jayawardena, R.S.; Camporesi, E.; Elgorban, A.M.; Bahkali, A.H.; Yan, J.; Hyde, K.D. A new species of Colletotrichum from Sonchus sp. in Italy. *Phytotaxa* **2017**, *314*, 55-63.
218. Jayasiri, S.C.; Hyde, K.D.; Jones, E.G.; Ariyawansae, H.A.; Bahkali, A.H.; Elgorban, A.M.; Kang, J.-C. A new hysteriform dothideomycete (Gloniaceae, Pleosporomycetidae incertae sedis), Purpurepithecium murisporum gen. et sp. nov. on pine cone scales. *Cryptogamie, Mycologie* **2017**, *38*, 241-251.
219. Hyde, K.D.; Norphanphoun, C.; Abreu, V.P.; Bazzicalupo, A.; Chethana, K.T.; Clericuzio, M.; Dayarathne, M.C.; Dissanayake, A.J.; Ekanayaka, A.H.; He, M.-Q. Fungal diversity notes 603–708: taxonomic and phylogenetic notes on genera and species. *Fungal Diversity* **2017**, *87*, 1-235.
220. Hyde, K.D.; Maharachchikumbura, S.S.; Hongsanan, S.; Samarakoon, M.C.; Lücking, R.; Pem, D.; Harishchandra, D.; Jeewon, R.; Zhao, R.-L.; Xu, J.-C. The ranking of fungi: a tribute to David L. Hawksworth on his 70th birthday. *Fungal Diversity* **2017**, *84*, 1-23.
221. Hongsanan, S.; Maharachchikumbura, S.S.; Hyde, K.D.; Samarakoon, M.C.; Jeewon, R.; Zhao, Q.; Al-Sadi, A.M.; Bahkali, A.H. An updated phylogeny of Sordariomycetes based on phylogenetic and molecular clock evidence. *Fungal diversity* **2017**, *84*, 25-41.
222. Elsheshtawi, M.; Elkhaky, M.T.; Sayed, S.R.; Bahkali, A.H.; Mohammed, A.A.; Gambhir, D.; Mansour, A.S.; Elgorban, A.M. Integrated control of white rot disease on beans caused by Sclerotinia sclerotiorum using Contans® and reduced fungicides application. *Saudi journal of biological sciences* **2017**, *24*, 405-409.
223. Ekanayaka, A.H.; Hyde, K.D.; Jones, E.G.; Zhao, Q.; Elgorban, A.M.; Bahkali, A.H. A new species of Trichoglossum Geoglossales, Ascomycota from Thailand. *Phytotaxa* **2017**, *316*, 161-170.

224. Doilom, M.; Dissanayake, A.J.; Wanasinghe, D.N.; Boonmee, S.; Liu, J.-K.; Bhat, D.J.; Taylor, J.E.; Bahkali, A.H.; Eric, H.; McKenzie, C. Microfungi on *Tectona grandis* (teak) in Northern Thailand. *Fungal Diversity* **2017**, *82*, 107.
225. Alhariri, M.; Majrashi, M.A.; Bahkali, A.H.; Almajed, F.S.; Azghani, A.O.; Khiyami, M.A.; Alyamani, E.J.; Aljohani, S.M.; Halwani, M.A. Efficacy of neutral and negatively charged liposome-loaded gentamicin on planktonic bacteria and biofilm communities. *International journal of nanomedicine* **2017**, *12*, 6949.
226. Abdel-Wahab, M.A.; Dayarathne, M.C.; Suetrong, S.; Guo, S.-Y.; Alias, S.A.; Bahkali, A.H.; Nagahama, T.; Elgorban, A.M.; Abdel-Aziz, F.A.; Hodhod, M.S. New saprobic marine fungi and a new combination. *Botanica Marina* **2017**, *60*, 469-488.
227. Abdel-Wahab, M.A.; Bahkali, A.; El-Gorban, A.M.; Hodhod, M.S. Natural products of *Nothophoma multilocularis* sp. nov. an endophyte of the medicinal plant *Rhazya stricta*. *Mycosphere* **2017**, *8*, 1185-1199.
228. Zhu, D.; Luo, Z.-L.; Baht, D.J.; MCKENZIE, E.H.; Bahkali, A.H.; Zhou, D.-Q.; Su, H.-Y.; Hyde, K.D. *Helminthosporium velutinum* and *H. aquaticum* sp. nov. from aquatic habitats in Yunnan Province, China. *Phytotaxa* **2016**, *253*, 179-190-179-190.
229. Zhao, Q.; Zhang, X.; Li, S.; Chai, H.; Bahkali, A.H.; Hyde, K.D. New species and records of saddle fungi (Helvella, Helvellaceae) from Jiuzhaigou Natural Reserve, China. *Mycoscience* **2016**, *57*, 422-430.
230. Zhang, J.-F.; Liu, J.-K.; Hyde, K.D.; Liu, Y.-X.; Bahkali, A.H.; Liu, Z.-Y. *Ligninsphaeria jonesii* gen. et. sp. nov., a remarkable bamboo inhabiting ascomycete. *Phytotaxa* **2016**, *247*, 109-117-109-117.
231. Zhang, H.; Dong, W.; Hyde, K.D.; Bahkali, A.H.; Liu, J.-K.; Zhou, D.-Q.; Zhang, D. Molecular data shows *Didymella aptrootii* is a new genus in *Bambusicolaceae*. *Phytotaxa* **2016**, *247*, 99-108.
232. Wijayawardene, N.N.; Hyde, K.D.; Wanasinghe, D.N.; Papizadeh, M.; Goonasekara, I.D.; Camporesi, E.; Bhat, D.J.; McKenzie, E.H.; Phillips, A.J.; Diederich, P. Taxonomy and phylogeny of dematiaceous coelomycetes. *Fungal diversity* **2016**, *77*, 1-316.
233. Tibpromma, S.; Liu, J.-K.; Promputtha, I.; Camporesi, E.; Bahkali, A.H.; Hyde, K.D.; Boonmee, S. *Ophiosimulans tanacetii* gen. et sp. nov. (Phaeosphaeriaceae) on *Tanacetum* sp. (Asteraceae) from Italy. *Mycological Progress* **2016**, *15*, 1-11.
234. Tibpromma, S.; Boonmee, S.; Wijayawardene, N.N.; Maharachchikumbura, S.S.; McKenzie, E.H.; Bahkali, A.H.; GARETH, J.E.; D HYDE, K.; Promputtha, I. The holomorph of *Parasarcopodium* (Stachybotryaceae), introducing *P. pandanicola* sp. nov. on *Pandanus* sp. *Phytotaxa* **2016**, *266*, 250-260.
235. Tennakoon, D.; Phillips, A.; Phookamsak, R.; Ariyawansa, H.; Bahkali, A.; Hyde, K. Sexual morph of *Lasiodiplodia pseudotheobromae* Botryosphaeriaceae, Botryosphaeriales, Dothideomycetes from China. *Mycosp* **2016**, *7*, 990-1000.
236. Tennakoon, D.; Hyde, K.; Wanasinghe, D.; Bahkali, A.; Camporesi, E.; Khan, S.; Phookamsak, R. Taxonomy and phylogenetic appraisal of *Montagnula jonesii* sp. nov. (Didymosphaeriaceae, Pleosporales). *Mycosphere* **2016**, *7*, 1346-1356.
237. Su, H.-Y.; Luo, Z.-L.; Liu, X.-Y.; Su, X.-J.; Hu, D.-M.; Zhou, D.-Q.; Bahkali, A.H.; Hyde, K.D. *Lentithecium cangshanense* sp. nov. (Lentitheciaceae) from freshwater habitats in Yunnan Province, China. *Phytotaxa* **2016**, *267*, 61-69-61-69.

238. Su, H.; Hyde, K.D.; Maharachchikumbura, S.S.; Ariyawansa, H.A.; Luo, Z.; Promputtha, I.; Tian, Q.; Lin, C.; Shang, Q.; Zhao, Y. The families Distoseptisporaceae fam. nov., Kirschsteinioteliaceae, Sporormiaceae and Torulaceae, with new species from freshwater in Yunnan Province, China. *Fungal Diversity* **2016**, *80*, 375-409.
239. Singtripop, C.; HONGSANUN, S.; Li, J.; De Silva, N.I.; Phillips, A.J.; JONES, G.E.; Bahkali, A.H.; Hyde, K.D. Chaetothyria mangiferae sp. nov., a new species of Chaetothyria. *Phytotaxa* **2016**, *255*, 21-33.
240. SAMANTHA, C.; PETER, E.; JIE, C.; GUO-JIE LI, M.-Q.; ZHAO, R. Correct names of two cultivated mushrooms from the genus Pleurotus in China. *Phytotaxa* **2016**, *260*, 036-046.
241. Phukhamsakda, C.; Hongsanan, S.; Ryberg, M.; Ariyawansa, H.; Chomnunti, P.; Bahkali, A.; Hyde, K. The evolution of Massariaceae with Longipedicellataceae fam. nov. *Mycosphere* **2016**, *7*, 1713-1731.
242. Perera, R.H.; Maharachchikumbura, S.S.; Ariyawansa, H.; Bahkali, A.H.; Jones, E.G.; Al-Sadi, A.M.; Hyde, K.D.; Liu, Z.-Y. Two new Pseudohalonectria species on beech cupules (Fagus sylvatica) and a new genus to accommodate P. suthepensis. *Phytotaxa* **2016**, *278*, 115-131.
243. Mapook, A.; Hyde, K.D.; Dai, D.-Q.; Li, J.; JONES, E.G.; Bahkali, A.H.; Boonmee, S. Muyocoprionales, ord. nov., (Dothideomycetes, Ascomycota) and a reappraisal of Muyocoprion species from northern Thailand. *Phytotaxa* **2016**, *265*, 225-237-225-237.
244. Mapook, A.; Boonmee, S.; Liu, J.-K.; Jones, E.G.; Bahkali, A.H.; Hyde, K.D. Taxonomic and phylogenetic placement of Phaeodimeriella (Pseudoperisporiaceae, Pleosporales). *Cryptogamie, Mycologie* **2016**, *37*, 157-176.
245. Mapook, A.; Boonmee, S.; Ariyawansa, H.A.; Tibpromma, S.; Campesori, E.; Jones, E.G.; Bahkali, A.H.; Hyde, K. Taxonomic and phylogenetic placement of Nodulosphaeria. *Mycological Progress* **2016**, *15*, 34.
246. Maharachchikumbura, S.S.; Hyde, K.D.; Jones, E.G.; McKenzie, E.; Bhat, J.D.; Dayarathne, M.C.; Huang, S.-K.; Norphanphoun, C.; Senanayake, I.C.; Perera, R.H. Families of sordariomycetes. *Fungal Diversity* **2016**, *79*, 1-317.
247. Luo, Z.-L.; Yang, J.; Liu, J.-K.; Su, H.-Y.; Bahkali, A.H.; Hyde, K.D. Two new species of Helicascus (Morosphaeriaceae) from submerged wood in northern Thailand. *Phytotaxa* **2016**, *270*, 182-190.
248. Luo, Z.-L.; Bao, D.-F.; Bhat, J.D.; Yang, J.; Chai, H.-M.; Li, S.-H.; Bahkali, A.H.; Su, H.-Y.; Hyde, K.D. Sporoschisma from submerged wood in Yunnan, China. *Mycological progress* **2016**, *15*, 1145-1155.
249. Luo, Z.-L.; Bahkali, A.H.; Liu, X.-Y.; Phookamsak, R.; Zhao, Y.-C.; Zhou, D.-Q.; Su, H.-Y.; Hyde, K.D. Poaceascoma aquaticum sp. nov. (Lentitheciaceae), a new species from submerged bamboo in freshwater. *Phytotaxa* **2016**, *253*, 71-80-71-80.
250. Li, G.J.; Hyde, K.D.; Zhao, R.L.; Hongsanan, S.; Abdel-Aziz, F.A.; Abdel-Wahab, M.A.; Alvarado, P.; Alves-Silva, G.; Ammirati, J.F.; Ariyawansa, H.A. Fungal diversity notes 253-366: taxonomic and phylogenetic contributions to fungal taxa. *Fungal diversity* **2016**, *78*, 1-237.
251. Konta, S.; Phillips, A.; Bahkali, A.; Jones, E.; Eungwanichayapant, D.; Hyde, K.; Boonmee, S. Botryosphaeriaceae from palms in Thailand-Barriopsis archontophoenicis sp. nov, from Archontophoenix alexandrae. *Mycosphere* **2016**, *7*, 921-932.

252. Konta, S.; Hongsanan, S.; Tibpromma, S.; Thongbai, B.; Maharachchikumbura, S.; Bahkali, A.; Hyde, K.; Boonmee, S. An advance in the endophyte story: Oxydothidaceae fam. nov. with six new species of Oxydothis. *Mycosp* **2016**, *7*, 1425-1446.
253. Kodsueb, R.; Lumyong, S.; McKenzie, E.; Bahkali, A.; Hyde, K. Relationships between terrestrial and freshwater lignicolous fungi. *funga ecology* **2016**, *19*, 155-168.
254. Jayawardena, R.; Huang, J.; Jin, B.; Yan, J.; Li, X.; Hyde, K.; Bahkali, A.; Yin, S.; Zhang, G. An account of Colletotrichum species associated with strawberry anthracnose in China based on morphology and molecular data. *Mycosphere* **2016**, *7*, 1147-1191.
255. Jayasiri, S.C.; JONES, E.G.; Kang, J.-C.; Promputtha, I.; Bahkali, A.H.; Hyde, K.D. A new species of genus Anteaglonium (Anteagloniaceae, Pleosporales) with its asexual morph. *Phytotaxa* **2016**, *263*, 233-244.
256. Jayasiri, S.C.; Ariyawansa, H.A.; Jones, E.G.; Kang, J.-C.; Promputtha, I.; Bahkali, A.H.; Hyde, K.D. Towards a natural classification of Dothideomycetes: 8. The genera Cocconia, Dianesea, Endococcus and Lineostroma. *Phytotaxa* **2016**, *255*, 66-74.
257. Hyde, K.D.; Fryar, S.; Tian, Q.; Bahkali, A.H.; Xu, J. Lignicolous freshwater fungi along a north-south latitudinal gradient in the Asian/Australian region; can we predict the impact of global warming on biodiversity and function? *Fungal ecology* **2016**, *19*, 190-200.
258. Huang, S.-K.; Tangthirasun, N.; Phillips, A.J.; Dai, D.-Q.; Wanasinghe, D.N.; Wen, T.-C.; Bahkali, A.H.; Hyde, K.D.; Kang, J.-C. Morphology and Phylogeny of Neoscytalidium orchidacearum sp. nov. (Botryosphaeriaceae). *Mycobiology* **2016**, *44*, 79-84.
259. Hossain, M.; Rahman, M.; Bahkali, A.H.; Yahya, K.; Arefin, M.; Elgorban, A.M.; Hossen, M.; Islam, M.; Masood, Z. Temporal Variations of Sex Ratio, Length-Weight Relationships and Condition Factor of Cabdio morar (Cyprinidae) in the Jamuna (Brahmaputra River Distributary) River, Northern Bangladesh. *Pakistan Journal of Zoology* **2016**, *48*.
260. Hossain, M.; Hossen, M.; Pramanik, M.; Yahya, K.; Bahkali, A.; Elgorban, A. Length-weight relationships of Dermogenys pusilla Kuhl & van Hasselt, 1823 (Zenarchopteridae) and Labeo bata (Hamilton, 1822) (Cyprinidae) from the Ganges river (NW Bangladesh). *Journal of Applied Ichthyology* **2016**, *32*, 744-746.
261. Hongsanan, S.; Bahkali, A.H.; Chomnunti, P.; Liu, J.-K.; Yang, J.-B.; Hyde, K.D. Discopycnothyrium palmae gen. and sp. nov. Asterinaceae. *Mycotax* **2016**, *131*, 859-869.
262. Guo Jie, L.; Hyde, K.D.; Zhao, R.L.; Hongsanan, S.; Abdel Aziz, F.A.; Abdel Wahab, M.A.; Alvarado, P.; Alves Silva, G.; Ammirati, J.F.; Ariyawansa, H.A. Fungal diversity notes 253-366: taxonomic and phylogenetic contributions to fungal taxa. **2016**.
263. Goonasekara, I.D.; Maharachchikumbura, S.S.; Wijayawardene, N.N.; Phookamsak, R.; Schumacher, R.K.; Bahkali, A.H.; Gareth-Jones, E.; Hyde, K.D. Seimatosporium quercina sp. nov. (Discosporiaceae) on Quercus robur from Germany. *Phytotaxa* **2016**, *255*, 240-248.
264. Elsheshtawi, M.; Elkhaky, M.T.; Sayed, S.R.; Bahkali, A.H.; Mohammed, A.A.; Gambhir, D.; Elgorban, A.M. Integrated control of white rot disease on beans. **2016**.
265. Elgorban, A.M.; Al-Rahmah, A.N.; Sayed, S.R.; Hirad, A.; Mostafa, A.A.-F.; Bahkali, A.H. Antimicrobial activity and green synthesis of silver nanoparticles using Trichoderma viride. *Biotechnology & Biotechnological Equipment* **2016**, *30*, 299-304.

266. Elgorban, A.; Aref, S.; Seham, S.; Elhindi, K.; Bahkali, A.; Sayed, S.; Manal, M. Extracellular synthesis of silver nanoparticles using *Aspergillus versicolor* and evaluation of their activity on plant pathogenic fungi. *Mycosphere* **2016**, *7*, 844-852.
267. DongQin, D.; Bahkali, A.; Ariyawansa, H.; Li, W.; Bhat, D.; Hyde, K. *Neokalmusia didymospora* (Didymosphaeriaceae), a new species from bamboo. *Sydowia* **2016**, *68*, 17-25.
268. Daranagama, D.A.; Liu, X.; Chamyuang, S.; Stadler, M.; Bahkali, A.; HYDE, K. Towards a natural classification of Sordariomycetes: the genera *Frondisphaeria*, *Immersisphaeria*, *Lasiobertia*, *Pulmosphaeria* and *Yuea* (Sordariomycetes incertae sedis). *Phytotaxa* **2016**, *258*, 153-163.
269. Daranagama, D.; Camporesi, E.; Liu, X.; Bhat, D.; Chamyuang, S.; Bahkali, A.; Stadler, M.; Hyde, K. *Tristratiperidium microsporium* gen. et sp. nov. (Xylariales) on dead leaves of *Arundo plinii*. *Mycological progress* **2016**, *15*, 8.
270. Chen, J.; Hyde, K.D.; Bahkali, A.H.; Zhao, R.-L. *Micropsalliota brunneosquamata*, a new species from Thailand. *Chiang Mai Journal of Science* **2016**, *43*, 689-694.
271. CAMPORESI, E.G.J.; PHILLIPS, A.J.; HYDE, K.D. Sexual morph of *Seimatosporium cornii* found on *Cornus sanguinea* in Italy. *Phytotaxa* **2016**, *257*, 051-060.
272. Bagga, P.; Ansari, T.M.; Siddiqui, H.H.; Syed, A.; Bahkali, A.H.; Rahman, M.A.; Khan, M.S. Bromelain capped gold nanoparticles as the novel drug delivery carriers to aggrandize effect of the antibiotic levofloxacin. *EXCLI journal* **2016**, *15*, 772.
273. ASHRAF, A.; HYDE, K.D.; ZHAO, R.; CALLAC, P. Inter-and intra-specific diversity in *Agaricus endoxanthus* and allied species reveals a new taxon, *A. punjabensis*. *Phytotaxa* **2016**, *252*, 001-016.
274. Abdel-Wahab, M.A.; Bahkali, A.H.; JONES, E.G.; Elgorban, A.M.; Abdel-Aziz, F.A.; Hodhod, M.S.; Al-Hebshi, M.O. Two new species of *Kallichroma* (Bionectriaceae, Hypocreales) from Saudi Arabian mangroves. *Phytotaxa* **2016**, *260*, 66-74.
275. Yang, J.; Maharachchikumbura, S.S.; Bhat, D.J.; Bahkali, A.H.; Jones, E.G.; Liu, Z.-Y. *Aquapteridospora lignicola* gen. et sp. nov., a new hyphomycetous taxon (Sordariomycetes) from wood submerged in a freshwater stream. *Cryptogamie, Mycologie* **2015**, *36*, 469-478.
276. Wanasinghe, D.N.; Jones, E.G.; Camporesi, E.; Mortimer, P.E.; Xu, J.; Bahkali, A.H.; Hyde, K.D. The genus *Murispora*. *Cryptogamie, Mycologie* **2015**, *36*, 419-448.
277. Tibpromma, S.; Promputtha, I.; Phookamsak, R.; Boonmee, S.; CAMPORESI, E.C.; Yang, J.-B.; Bahkali, A.H.; McKenzie, E.H.; Hyde, K.D. Phylogeny and morphology of *Premilcurensis* gen. nov. (Pleosporales) from stems of *Senecio* in Italy. *Phytotaxa* **2015**, *236*, 40-52-40-52.
278. Tian, Q.; Liu, J.K.; Hyde, K.D.; Wanasinghe, D.N.; Boonmee, S.; Jayasiri, S.C.; Luo, Z.L.; Taylor, J.E.; Phillips, A.J.; Bhat, D.J. Phylogenetic relationships and morphological reappraisal of *Melanommataceae* (Pleosporales). *Fungal Diversity* **2015**, *74*, 267-324.
279. Thambugala, K.M.; Chunfang, Y.; Camporesi, E.; Bahkali, A.H.; LIU, Z.Y.; HYDE, K. *Pseudodidymosphaeria* gen. nov. in *Massarinaceae*. *Phytotaxa* **2015**, *231*, 271-282.

280. Tangthirasunun, N.; Silar, P.; Bhat, D.J.; Maharachchikumbura, S.S.; Wijayawardene, N.; Bahkali, A.H.; Hyde, K.D. Morphology and phylogeny of two appendaged genera of coelomycetes: Ciliochorella and Discosia. *Sydow* **2015**, *67*, 217-226.
281. Subin, S.R.; Bhat, S.G. Enzymes: concepts, nomenclature, mechanism of action and kinetics, characteristics and sources of food-grade enzymes. *Enzymes in food and beverage processing* **2015**, 3-38.
282. Senanayake, I.C.; Maharachchikumbura, S.S.; Hyde, K.D.; Bhat, J.D.; Jones, E.G.; McKenzie, E.H.; Dai, D.Q.; Daranagama, D.A.; Dayarathne, M.C.; Goonasekara, I.D. Towards unraveling relationships in Xylariomycetidae (Sordariomycetes). *Fungal Diversity* **2015**, *73*, 73-144.
283. Sayed, S.R.; Bahkali, A.H.; Bakri, M.M.; Hirad, A.H.; Elgorban, A.M.; El-Metwally, M.A. Antibacterial activity of biogenic silver nanoparticles produced by *Aspergillus terreus*. *International Journal of Pharmacology* **2015**, *11*, 858-863.
284. Phukhamsakda, C.; Ariyawansa, H.A.; Phookamsak, R.; Chomnunti, P.; Bulgakov, T.S.; Yange, J.B.; Bhat, D.J.; Bahkalih, A.H.; Hyde, K.D. *Muriphaeosphaeria galatellae* gen. et sp. nov. in Phaeosphaeriaceae (Pleosporales). *Phytotaxa* **2015**, *227*, 55-65.
285. Phookamsak, R.; Norphanphoun, C.; Tanaka, K.; Dai, D.-Q.; Luo, Z.-L.; Liu, J.-K.; Su, H.-Y.; Bhat, D.J.; Bahkali, A.H.; Mortimer, P.E. Towards a natural classification of *Astrosphaeriella*-like species; introducing *Astrosphaeriellaceae* and *Pseudoastrosphaeriellaceae* fam. nov. and *Astrosphaeriellopsis*, gen. nov. *Fungal Diversity* **2015**, *74*, 143-197.
286. Norphanphoun, C.; Maharachchikumbura, S.S.; Daranagama, A.; Bulgakov, T.S.; Bhat, D.J.; Bahkali, A.H.; Hyde, K.D. Towards a backbone tree for *Seimatosporium*, with *S. physocarpi* sp. nov. *Mycosphere* **2015**, *6*, 385-400.
287. Maharachchikumbura, S.S.; Hyde, K.D.; Jones, E.G.; McKenzie, E.H.; Huang, S.-K.; Abdel-Wahab, M.A.; Daranagama, D.A.; Dayarathne, M.; D'souza, M.J.; Goonasekara, I.D. Towards a natural classification and backbone tree for Sordariomycetes. *Fungal diversity* **2015**, *72*, 199-301.
288. Liu, J.K.; Hyde, K.D.; Jones, E.G.; Ariyawansa, H.A.; Bhat, D.J.; Boonmee, S.; Maharachchikumbura, S.S.; McKenzie, E.H.; Phookamsak, R.; Phukhamsakda, C. Fungal diversity notes 1-110: taxonomic and phylogenetic contributions to fungal species. *Fungal diversity* **2015**, *72*, 1-197.
289. Li, W.; Bhat, D.; Camporesi, E.; Tian, Q.; Wijayawardene, N.; Dai, D.; Phookamsak, R.; Chomnunti, P.; Bahkali, A.; Hyde, K. New asexual morph taxa in Phaeosphaeriaceae. *Mycosphere* **2015**, *6*, 681-708.
290. Jones, E.G.; Suetrong, S.; Sakayaroj, J.; Bahkali, A.H.; Abdel-Wahab, M.A.; Boekhout, T.; Pang, K.-L. Classification of marine ascomycota, basidiomycota, blastocladiomycota and chytridiomycota. *Fungal Diversity* **2015**, *73*, 1-72.
291. Jayasiri, S.C.; Hyde, K.D.; Ariyawansa, H.A.; Bhat, J.; Buyck, B.; Cai, L.; Dai, Y.-C.; Abd-Elsalam, K.A.; Ertz, D.; Hidayat, I. The Faces of Fungi database: fungal names linked with morphology, phylogeny and human impacts. *Fungal diversity* **2015**, *74*, 3-18.
292. Jayasiri, S.; Wanasinghe, D.; Ariyawansa, H.; Jones, E.; Kang, J.; Promputtha, I.; Bahkali, A.; Bhat, D.; Camporesi, E.; Hyde, K. Two novel species of *Vagicola* (Phaeosphaeriaceae) from Italy. **2015**.

293. Iida, Y.; van 't Hof, P.; Beenen, H.; Mesarich, C.; Kubota, M.; Stergiopoulos, I.; Mehrabi, R.; Notsu, A.; Fujiwara, K.; Bahkali, A. Novel mutations detected in avirulence genes overcoming tomato Cf resistance genes in isolates of a Japanese population of *Cladosporium fulvum*. *PloS one* **2015**, *10*, e0123271.
294. Hongsanan, S.; Tian, Q.; Peršoh, D.; Zeng, X.-Y.; Hyde, K.D.; Chomnunti, P.; Boonmee, S.; Bahkali, A.H.; Wen, T.-C. Meliolales. *Fungal Diversity* **2015**, *74*, 91-141.
295. Hongsanan, S.; Tian, Q.; Bahkali, A.H.; Yang, J.-B.; McKenzie, E.H.; Chomnunti, P.; Hyde, K.D. Zeloasperisporiales ord. nov., and two new species of Zeloasperisporium. *Cryptogamie, Mycologie* **2015**, *36*, 301-317.
296. Hongsanan, S.; Hyde, K.D.; Bahkali, A.H.; Camporesi, E.; Chomnunti, P.; Ekanayaka, H.; Gomes, A.A.; Hofstetter, V.; Jones, E.G.; Pinho, D.B. Fungal biodiversity profiles 11–20. *Cryptogamie, mycologie* **2015**, *36*, 355-380.
297. Elgorban, A.M.; Bahkali, A.H.; El-Metwally, M.A.; Elsheshtawi, M.; Abdel-Wahab, M.A. In vitro antifungal activity of some plant essential oils. *Int J Pharmacol* **2015**, *11*, 56-61.
298. Daranagama, D.A.; Liu, X.; Chamyuang, S.; Stadler, M.; BAHKALI, A.; HYDE, K.D. Rhopalostroma brevistipitatum sp. nov. from Thailand with an extended generic description for Rhopalostroma. *Phytotaxa* **2015**, *227*, 229-242.
299. Dai, D.-Q.; Bahkali, A.H.; Li, W.-J.; Bhat, D.J.; Zhao, R.-L.; Hyde, K.D. Bambusicola loculata sp. nov. (Bambusicolaceae) from bamboo. *Phytotaxa* **2015**, *213*, 122-130.
300. Chethana, T.; Liu, M.; Ariyawansa, H.A.; Konta, S.; Wanasinghe, D.N.; Zhou, Y.; Yan, J.; Camporesi, E.; Bulgakov, T.S.; Chukeatirote, E. Splanchnonema-like species in Pleosporales: introducing Pseudosplanchnonema gen. nov. in Massarinaceae. *Phytotaxa* **2015**, *231*, 133–144-133–144.
301. Chandrasekaran, M. Enzymes in food and beverage processing. CRC Press: 2015.
302. Boonmee, S.; Yang, Z.L.; Cai, Q.; Cui, Y.-Y.; Bahkali, A.H.; Chen, J.; Cui, B.K.; Chen, J.J.; Dayarathne, M.C.; Dissanayake, A.J. Fungal diversity notes 111-252-taxonomic and phylogenetic contributions to fungal taxa. **2015**.
303. Bahkali, A.H.; Elgorban, A.M.; El-Samawaty, A.E.-R.; Almogren, H.-M.A.; El-Metwally, M.A.; Al-Harbi, N.S. In vitro susceptibility of clinical Aspergillus species to some antifungal agents. *INTERNATIONAL JOURNAL OF PHARMACOLOGY* **2015**, *11*, 496-501.
304. Attia, K.; Bahkali, A.; Abdel-Wahab, M.A.; Elgorban, A.M. Biobutanol Production from Biomass using Engineered Escherichia coli. **2015**.
305. Ariyawansa, H.A.; Phukhamsakda, C.; Thambugala, K.M.; Bulgakov, T.S.; Wanasinghe, D.N.; Perera, R.H.; Mapook, A.; Camporesi, E.; Kang, J.-C.; Jones, E.G. Revision and phylogeny of Leptosphaeriaceae. *Fungal Diversity* **2015**, *74*, 19-51.
306. Ariyawansa, H.A.; Hyde, K.D.; Jayasiri, S.C.; Buyck, B.; Chethana, K.T.; Dai, D.Q.; Dai, Y.C.; Daranagama, D.A.; Jayawardena, R.S.; Luecking, R. Fungal diversity notes 111–252—taxonomic and phylogenetic contributions to fungal taxa. *Fungal diversity* **2015**, *75*, 27-274.
307. Ariyawansa, H.A.; Hyde, K.D.; Jayasiri, S.C.; Buyck, B.; Chethana, K.T.; Dai, D.Q.; Dai, Y.C.; Daranagama, D.A.; Jayawardena, R.S.; Lücking, R. Erratum to: Fungal diversity notes 111–252—taxonomic and phylogenetic contributions to fungal taxa. *Fungal Diversity* **2015**, *75*, 275-277.

308. Alghuthaymi, M.A.; Bahkali, A.H. Toxigenic profiles and trinucleotide repeat diversity of *Fusarium* species isolated from banana fruits. *Biotechnology & Biotechnological Equipment* **2015**, *29*, 324-330.
309. Abd_Allah, E.F.; Hashem, A.; Alqarawi, A.A.; Bahkali, A.H.; Alwhibi, M.S. Enhancing growth performance and systemic acquired resistance of medicinal plant *Sesbania sesban* (L.) Merr using arbuscular mycorrhizal fungi under salt stress. *Saudi journal of biological sciences* **2015**, *22*, 274-283.
310. Yan, J.-Y.; Jayawardena, M.; Goonasekara, I.D.; Wang, Y.; Zhang, W.; Liu, M.; Huang, J.-B.; Wang, Z.-Y.; Shang, J.-J.; Peng, Y.-L. Diverse species of *Colletotrichum* associated with grapevine anthracnose in China. *Fungal Diversity* **2014**, 1-14.
311. Wijayawardene, N.N.; Hyde, K.D.; Bhat, D.J.; Camporesi, E.; Schumacher, R.K.; Chethana, K.T.; Wikee, S.; Bahkali, A.H.; Wang, Y. *Camarosporium*-like species are polyphyletic in Pleosporales; introducing *Paracamarosporium* and *Pseudocamarosporium* gen. nov. in Montagnulaceae. *Cryptogamie, Mycologie* **2014**, *35*, 177-198.
312. Wijayawardene, N.N.; Crous, P.W.; Kirk, P.M.; Hawksworth, D.L.; Boonmee, S.; Braun, U.; Dai, D.-Q.; D'souza, M.J.; Diederich, P.; Dissanayake, A. Naming and outline of Dothideomycetes–2014 including proposals for the protection or suppression of generic names. *Fungal Diversity* **2014**, *69*, 1-55.
313. van der Burgt, A.; Karimi Jashni, M.; Bahkali, A.H.; de Wit, P.J. Pseudogenization in pathogenic fungi with different host plants and lifestyles might reflect their evolutionary past. *Molecular plant pathology* **2014**, *15*, 133-144.
314. Phookamsak, R.; Liu, J.-K.; McKenzie, E.H.; Manamgoda, D.S.; Ariyawansa, H.; Thambugala, K.M.; Dai, D.-Q.; Camporesi, E.; Chukeatirote, E.; Wijayawardene, N.N. Revision of *Phaeosphaeriaceae*. *Fungal Diversity* **2014**, *68*, 159-238.
315. Khiyami, M.; Bahklia, A.; El-Zefzaf, H. Possibility of infection by *Cryptococcus* species for workers in organic farming: P143. *Mycoses* **2014**, *57*.
316. Hongsanan, S.; Li, Y.-M.; Liu, J.-K.; Hofmann, T.; Piepenbring, M.; Bhat, J.D.; Boonmee, S.; Doilom, M.; Singtripop, C.; Tian, Q. Revision of genera in Asterinales. *Fungal Diversity* **2014**, *68*, 1-68.
317. Hongsanan, S.; Bahkali, A.H.; Mckenzie, E.H.; Chukeatirote, E.; Hyde, K.D. *Trichopeltinaceae* (Dothideomycetes), an earlier name for *Brefeldiellaceae*, with a new species of *Trichopeltina*. *Phytotaxa* **2014**, *176*, 270–282-270–282.
318. Hirad, A.H.; Elsheshtawi, M.; Bahkali, A.H.; Elgorban, A.M.; Sayed, S.R. Efficacy of Several Potential Biocontrol Agents against *Sclerotinia sclerotiorum*. *JOURNAL OF PURE & APPLIED MICROBIOLOGY* **2014**.
319. Hirad, A.H.; Bahkali, A.H.; Khiyami, M.A.; Mohammed, A.A.; Santhappa, C.M.; Elgorban, A.M.; Al-Sum, B.A. Bioactivity of Marine *Bacillus Licheniformis* Ksawd3 Isolated From Arabian Gulf, Saudi Arabia. *JOURNAL OF PURE AND APPLIED MICROBIOLOGY* **2014**, *8*, 607-613.
320. Hirad, A.; Bahkali, A.; Santhappa, C. Antibacterial activity of marine *Bacillus* spp. isolated from mangroves of Saudi Arabian Eastern Province. *New Biotechnology* **2014**, S179.
321. Hatamleh, A.A.; Bahkali, A.H.; El-Sheshtawi, M.; Elgorban, A.M.; El-Metwally, M.A. Inhibitory influence of plant extracts on soil borne fungi infecting muskmelon (*Cucumis melo* L.). *International Journal of Pharmacology* **2014**, *10*, 322-327.

322. Elgorban, A.M.; Bahkali, A.H.; Elsheshtawi, M.; Sayed, S.R. Effect of carbon, nitrogen sources and carbon to nitrogen ratios on *Sclerotinia sclerotiorum*. *Journal Of Pure And Applied Microbiology* **2014**, *8*, 3697-3701.
323. Elgorban, A.M.; Abdel - Wahab, M.A.; Bahkali, A.H.; Al - Sum, B.A. Biocontrol of *Meloidogyne javanica* on tomato plants by *Hypocrea lixii* (the teleomorph of *Trichoderma harzianum*). *Clean -Soil, Air, Water* **2014**, *42*, 1464-1469.
324. El-Sheshtawi, M.; Bahkali, A.H.; Wafa'a-Al-Taisan, A.; Elgorban, A. Pathogenicity of *Fusarium oxysporum* f. sp. *melonis* to melon genotypes (*Cucumis melo* L.) and its biocontrol. *J. Pure Appl. Microbiol* **2014**, *8*, 317-324.
325. Dai, D.-Q.; Wijayawardene, N.N.; Bhat, D.J.; Chukeatirote, E.; Zhao, R.-L.; Wang, Y.; Bahkali, A.H.; Hyde, K.D. The Phylogenetic Placement of *Eriosporella bambusicola* sp. nov. in Capnodiales. *Cryptogamie, Mycologie* **2014**, *35*, 41-49.
326. Dai, D.-Q.; Wijayawardene, N.N.; Bhat, D.J.; Chukeatirote, E.; Bahkali, A.H.; Zhao, R.-L.; Xu, J.-C.; Hyde, K.D. *Pustulomyces* gen. nov. accommodated in Diaporthaceae, Diaporthales, as revealed by morphology and molecular analyses. *Cryptogamie, Mycologie* **2014**, *35*, 63-72.
327. Dai, D.-Q.; Bahkali, A.H.; Li, Q.-R.; Bhat, D.J.; Wijayawardene, N.N.; Li, W.-J.; Chukeatirote, E.; Zhao, R.-L.; Xu, J.-C.; Hyde, K.D. *Vamsapriya* (Xylariaceae) re-described, with two new species and molecular sequence data. *Cryptogamie, Mycologie* **2014**, *35*, 339-357.
328. Dai, D.-Q.; Bahkali, A.H.; Bhat, D.J.; Xiao, Y.-P.; Chukeatirote, E.; Zhao, R.-L.; McKENZIE, E.H.; Xu, J.-C.; Hyde, K.D. Towards a natural classification of Dothideomycetes 3: The genera *Muellerites*, *Trematosphaeriopsis*, *Vizellopsis* and *Yoshinagella* (Dothideomycetes incertae sedis). *Phytotaxa* **2014**, *176*, 18-27.
329. Bahkali, A.H.; Elsheshtawi, M.; Mousa, R.A.; Elgorban, A.M.; Alzarqaa, A.A. Biological control of *Sclerotinia sclerotiorum* in beans with antagonistic microorganisms under greenhouse conditions. *Research on Crops* **2014**, *15*, 884-892.
330. Alomari, A.-H.; Bahkali, A.H.; Mongy, A.-A.A.; Al-Sum, B.A.; Elgorban, A.M. Quantitative analysis of mycotoxins produced by three fungi in dry fruits in Saudi Arabia using high-performance liquid chromatography. *J Pure Appl Microbio* **2014**, *8*, 577-581.
331. Alomari, A.; Bahkali, A.; Asran, A.; Elgorban, A. Toxigenic fungi isolated from dried fruits: Detection of *Aspergillus* toxins in Saudi Arabia. *Journal of Pure and Applied Microbiology* **2014**, *8*.
332. Almoammar, H.; Bahkali, A.H.; Khiyami, M.A.; Abd-Elsalam, K.A. Fungal infestation and mycotoxin contamination in camel feedstuffs. *Fungal Genomics & Biology* **2014**, *4*, 1.
333. Al-Taisan, W.a.A.; Bahkali, A.H.; Elgorban, A.M.; El-Metwally, M.A. Effective influence of essential oils and microelements against *Sclerotinia sclerotiorum*. *International journal of pharmacology* **2014**, *10*, 275-281.
334. Abdel-Wahab, M.A.; Hodhod, M.S.; Bahkali, A.H.; Jones, E.G. Marine fungi of Saudi Arabia. *Botanica Marina* **2014**, *57*, 323-335.
335. Zhang, Y.; Fournier, J.; Phookamsak, R.; Bahkali, A.H.; Hyde, K.D. *Halotthiaceae* fam. nov. (Pleosporales) accommodates the new genus *Phaeoseptum* and several other aquatic genera. *Mycologia* **2013**, *105*, 603-609.

336. Zhang, Y.; Fournier, J.; Bahkali, A.H.; Hyde, K.D. *Misturatosphaeria mariae* sp. nov. from France, a first record of *Misturatosphaeria* in Europe. *mycoscience* **2013**, *54*, 106-109.
337. Zhang, H.; Hyde, K.D.; Abdel-Wahab, M.A.; Abdel-Aziz, F.A.; Ariyawansa, H.; Ko, K.; Zhao, R.; Alias, S.A.; Bahkali, A.H.; Zhou, D. A modern concept for *Helicascus* with a *Pleurophomopsis*-like asexual state. *Sydow* **2013**, *65*, 147-166.
338. Zain, M.E.; Bahkali, A.H.; Al-Othman, M.R. Developments in using fatty acids in fungal chemotaxonomy. *African Journal of Microbiology Research* **2013**, *7*, 4638-4645.
339. Xu, J.-J.; Qin, S.-Y.; Hao, Y.-Y.; Ren, J.; Tan, P.; Bahkali, A.H.; Hyde, K.D.; Wang, Y. A new species of *Calonectria* causing leaf disease of water lily in China. *Mycotaxon* **2013**, *122*, 177-185.
340. Sysouphanthong, P.; Hyde, K.D.; Chukeatirote, E.; Bahkali, A.H.; Vellinga, E.C. *Verrucospora vulgaris* (Agaricaceae, Agaricales), a Rare Tropical Species and a New Record for Thailand. *Chiang Mai J Sci* **2013**, *40*, 289-293.
341. Peng, L.-J.; Sun, T.; Yang, Y.-L.; CAI, L.; HYDE, K.D.; BAHKALI, A.H.; LIU, Z.-Y. *Sylloge fungorum omnium husque cognitorum Sylloge fungorum omnium husque cognitorum* 22, 1199, 1913. *Mycoscience* **2013**, *54*, 29-41.
342. Peng, L.-J.; Sun, T.; Yang, Y.-L.; Cai, L.; Hyde, K.D.; Bahkali, A.H.; Liu, Z.-Y. *Colletotrichum* species on grape in Guizhou and Yunnan provinces, China. *Mycoscience* **2013**, *54*, 29-41.
343. Li, Q.-R.; Tan, P.; Jiang, Y.-L.; Hyde, K.D.; McKenzie, E.H.; Bahkali, A.H.; Kang, J.-C.; Wang, Y. A novel *Trichoderma* species isolated from soil in Guizhou, T. *guizhouense*. *Mycological progress* **2013**, *12*, 167-172.
344. Jie, C.-Y.; Geng, K.; Jiang, Y.-L.; Xu, J.-J.; Hyde, K.D.; McKenzie, E.H.; Zhang, T.-Y.; Bahkali, A.H.; Li, D.-W.; Wang, Y. *Stachybotrys* from soil in China, identified by morphology and molecular phylogeny. *Mycological progress* **2013**, *12*, 693-698.
345. Hyde, K.D.; Jones, E.G.; Liu, J.-K.; Ariyawansa, H.; Boehm, E.; Boonmee, S.; Braun, U.; Chomnunti, P.; Crous, P.W.; Dai, D.-Q. Families of dothideomycetes. *Fungal diversity* **2013**, *63*, 1-313.
346. Hirad, A.H.; Bahkali, A.H.; Mohamed, A.; Abdallah, M.; Basheer, A. Antimicrobial Activity of Marine Microorganisms Isolated from the Coast of the Arabian Gulf. *J pure Appl Microbiol* **2013**, *7*, 1159-1164.
347. Hatamleh, A.; El-Sheshtawi, M.; Elgorban, A.; Bahkali, A.; Al-Sum, B. Pathogenicity of *Sclerotinia sclerotiorum* to Bean (*Phaseolus vulgaris*, L.) Cultivars. *J. Pure Appl. Microbiol* **2013**, *7*, 3275-3279.
348. Elgorban, A.M.; Bahkali, A.H.; Al-Sum, B.A. Biological control of root rots and stems canker of tomato plants caused by *Rhizoctonia solani* in Saudi Arabia. *Journal of Pure and Applied Microbiology* **2013**, *7*, 819-826.
349. Elgorban, A.M.; Al-Sum, B.; Elsheshtawi, M.; Bahkali, A.H. Factors affecting on *Sclerotinia sclerotiorum* isolated from beans growing in Ismailia, Egypt. *Life Sci. J* **2013**, *10*, 1278-1283.
350. Chandrasekaran, M.; Bahkali, A.H. Valorization of date palm (*Phoenix dactylifera*) fruit processing by-products and wastes using bioprocess technology–Review. *Saudi journal of biological sciences* **2013**, *20*, 105-120.

351. Bahkali, A.; El-Samawaty, A.; Yassin, M.A.; El-Naggar, M.A.; Mahmoud, M.H. Toxigenic fungal biota associated with walnut in Saudi Arabia. *J. PAM* **2013**, *7*, 1079-1086.
352. Ariyawansa, H.A.; Maharachchikumbura, S.S.; Karunarathne, S.C.; Chukeatirote, E.; Bahkali, A.H.; Kang, J.; Bhat, D.; Hyde, K.D. *Deniquelata barringtoniae* gen. et sp. nov., associated with leaf spots of *Barringtonia asiatica*. *Phytotaxa* **2013**, *105*, 11-20.
353. Almoammar, H.; Bahkali, A.H.; Abd-Elsalam, K.A. One-hour loop-mediated isothermal amplification assay for the detection of quarantinable toxigenic *Fusarium garmanirum*. *African Journal of Microbiology Research* **2013**, *7*, 1179-1183.
354. Almoammar, H.; Bahkali, A.H.; Abd-Elsalam, K.A. A polyphasic method for the identification of aflatoxigenic '*Aspergillus*' species isolated from Camel feeds. *Australian Journal of Crop Science* **2013**, *7*, 1707-1713.
355. Alasiri, H.S.; BAHKALI, A.; ABD-ELSALAM, K.A.; EL-ZEAAGI, K.S.; ELGORBAN, A.M.; AL-SUM, B.A. Detection of *Aspergillus* and *Penicillium* species producing aflatoxin in rice grains imported into Saudi Arabia. *Wulfenia* **2013**, *20*, 313-323.
356. Al-Sum, B.A.; Bahkali, A.H.; Elgorban, A.M. Mutagenesis and PCR procedures to analyze *Saccharomyces cerevisiae* isolated from Saudi Arabia. *Life Science Journal* **2013**, *10*.
357. Al-Sum, B.A.; Al-Bahkali, A.H.; Filflan, S.A.; Moslem, M.A.; Eifan, S.A.; Hadi, S. Selection of Polygalacturonase-Secreting *Saccharomyces cerevisiae* Mutants from Saudi Arabia. *JOURNAL OF PURE AND APPLIED MICROBIOLOGY* **2013**, *7*, 423-427.
358. AL-Shammari, T.A.; Bahkali, A.H.; Elgorban, A.M.; El-Kahky, M.T.; Al-Sum, B.A. The use of *Trichoderma longibrachiatum* and *Mortierella alpina* against root-knot nematode, *Meloidogyne javanica* on tomato. *J. Pure Appl. Microbiol* **2013**, *7*, 199-207.
359. Al Nagi, M.; Abd-Elsalam, K.A.; Bahkali, A.H.; Mongy, A.-A.A. Improved method for DNA isolation from different types of soil infested with three fungal genera. *Romanian Agricultural Research* **2013**, *30*, 329-333.
360. Zhang, H.; Hyde, K.D.; McKenzie, E.H.; Bahkali, A.H.; Zhou, D. Sequence data reveals phylogenetic affinities of *Acrocallymna aquatica* sp. nov., *Aquasubmersa mircensis* gen. et sp. nov. and *Clohesyomyces aquaticus* (freshwater coelomycetes). *Cryptogamie, Mycologie* **2012**, *33*, 333-346.
361. Zhang, H.; Hyde, K.; McKenzie, E.; Bahkali, A.; Zhou, D. Sequence Data Reveals Phylogenetic Affinities of *Acrocallymna aquatica* sp. nov., *Aquasubmersa mircensis* gen. et sp. nov. and *Clohesyomyces aquaticus* (Freshwater Coelomycetes). *Cryptogamie, Mycologie* **2012**, *33*, 333-346.
362. Zain, M.; Bahkali, A.; Al-Othman, M.R. Effect of chemical compounds on amino acid content of some *Fusarium* species and its significance to fungal chemotaxonomy. *Journal of Saudi Chemical Society* **2012**, *16*, 183-192.
363. Wisitrassameewong, K.; Karunarathna, S.C.; Thongklang, N.; Zhao, R.-L.; Callac, P.; Chukeatirote, E.; Bahkali, A.H.; Hyde, K.D. *Agaricus subrufescens*: new to Thailand. *Chiang Mai Journal of Science* **2012**, *39*, 281-291.
364. Vasilyeva, L.; Stephenson, S.; Hyde, K.; Bahkali, A. Some stromatic pyrenomycetous fungi from northern Thailand-1. *Biscogniuxia*, *Camillea* and *Hypoxylon* (Xylariaceae). *Fungal Diversity* **2012**, *55*, 65-76.

365. Sysouphanhong, P.; Hyde, K.D.; Chukeatirote, E.; Bahkali, A.H.; Vellinga, E. *Lepiota* (Agaricales) in Northern Thailand-2 *Lepiota* Section *Lepiota*. *Cryptogamie, Mycologie* **2012**, *33*, 25-42.
366. Pugsee, P.; Rivepiboon, W.; Bhattanakosol, P. Capturing knowledge for interpretation based on surrounding words of consecutive serial verb constructions. *Chiang Mai J. Sci* **2012**, *39*, 139-161.
367. Noireung, P.; Phoulivong, S.; Liu, F.; Cai, L.; McKenzie, E.H.; Chukeatirote, E.; Jones, E.; Bahkali, A.H.; Hyde, K.D. Novel species of *Colletotrichum* revealed by morphology and molecular analysis. *Cryptogamie, Mycologie* **2012**, *33*, 347-362.
368. Maharachchikumbura, S.S.; Guo, L.-D.; Cai, L.; Chukeatirote, E.; Wu, W.P.; Sun, X.; Crous, P.W.; Bhat, D.J.; McKenzie, E.H.; Bahkali, A.H. A multi-locus backbone tree for *Pestalotiopsis*, with a polyphasic characterization of 14 new species. *Fungal Diversity* **2012**, *56*, 95-129.
369. Lijuan, P.; Youlian, Y.; Kevin, D.H.; Bahkali, A.H.; Zuoyi, L. *Colletotrichum* species on Citrus leaves in Guizhou and Yunnan provinces, China. *Cryptogamie, Mycologie* **2012**, *33*, 267-283.
370. Khiyami, M.A.; Serour, E.A.; Shehata, M.M.; Bahkalia, A.H. Thermo-aerobic bacteria from geothermal springs in Saudi Arabia. *African Journal of Biotechnology* **2012**, *11*, 4053-4062.
371. Karunarathna, S.C.; Yang, Z.L.; Raspé, O.; Ko Ko, T.W.; Vellinga, E.C.; Zhao, R.-L.; Bahkali, A.; Chukeatirote, E.; Degreef, J.; Callac, P. *Lentinus giganteus* revisited: new collections from Sri Lanka and Thailand. *Mycotaxon* **2012**, *118*, 57-71.
372. Iida, Y.; van't Hof, P.; Beenen, H.; Stergiopoulos, I.; Mehrabi, R.; Notsu, A.; Kubota, M.; Bahkali, A.; Abd-Elsalam, K.; Terami, F. New races with unique mutations in avirulence genes overcoming tomato Cf resistance genes in a Japanese population of *Cladosporium fulvum*. In Proceedings of XV International Congress on Molecular Plant-Microbe Interactions; p. 133.
373. Hu, D.-M.; Chen, H.; Cai, L.; Bahkali, A.H.; Hyde, K.D. *Aquapeziza*: a new genus from freshwater and its morphological and phylogenetic relationships to *Pezizaceae*. *Mycologia* **2012**, *104*, 540-546.
374. Hu, D.-M.; Cai, L.; Bahkali, A.H.; Hyde, K.D. Two new freshwater species of *Annulatascaceae* from China. *Mycotaxon* **2012**, *120*, 81-88.
375. Hodhod, M.S.; Abdel-Wahab, M.A.; Bahkali, A.H.; Hyde, K.D. *Amarenographium solium* sp. nov. from Yanbu mangroves in the Kingdom of Saudi Arabia. *Cryptogamie, Mycologie* **2012**, *33*, 285-294.
376. Gognies, S.; Bahkali, A.; Moslem, M.; Belarbi, A. Use of the *Saccharomyces cerevisiae* endopolygalacturonase promoter to direct expression in *Escherichia coli*. *Journal of Industrial Microbiology and Biotechnology* **2012**, *39*, 1023-1029.
377. El-Samawaty, A.E.-R.M.; Bahkali, A.H.; Abd-Elsalam, K.; El-Naggar, M.A.; Yassin, M.A. Aflatoxigenic *Aspergillii* in outdoor air of Riyadh city. *Fresenius Environmental Bulletin* **2012**, *21*, 2587-2593.
378. De Wit, P.J.; Van Der Burgt, A.; Ökmen, B.; Stergiopoulos, I.; Abd-Elsalam, K.A.; Aerts, A.L.; Bahkali, A.H.; Beenen, H.G.; Chettri, P.; Cox, M.P. The genomes of the fungal plant pathogens *Cladosporium fulvum* and *Dothistroma septosporum* reveal adaptation to

different hosts and lifestyles but also signatures of common ancestry. *PLoS genetics* **2012**, *8*, e1003088.

379. de Wit, P.; van der Burgt, I.; Ökmen, B.; Stergiopoulos, I.; Bahkali, A.; Beenen, H.; Chettri, P.; Guo, Y.; Kabir, S.; Jashni, M.K. The genome of the fungus *Cladosporium fulvum* suggests an ancestral host jump to tomato. In Proceedings of XV International Congress on Molecular Plant-Microbe Interactions; p. 34.
380. de Wit, P.; van der Burgt, I.; Ökmen, B.; Stergiopoulos, I.; Bahkali, A.; Beenen, H.; Chettri, P.; Guo, Y.; Kabir, S.; Jashni, M.K. The genome of the biotrophic fungus *Cladosporium fulvum* suggests that it evolved from a necrotrophic pathogen. In Proceedings of 9th Solanaceae Conference 'From the Bench to Innovative Applications'; p. 70.
381. De Silva, D.D.; Rapior, S.; Hyde, K.D.; Bahkali, A.H. Medicinal mushrooms in prevention and control of diabetes mellitus. *Fungal Diversity* **2012**, *56*, 1-29.
382. De Silva, D.D.; Rapior, S.; Fons, F.; Bahkali, A.H.; Hyde, K.D. Medicinal mushrooms in supportive cancer therapies: an approach to anti-cancer effects and putative mechanisms of action. *Fungal Diversity* **2012**, *55*, 1-35.
383. Chomnunti, P.; Bhat, D.; Jones, E.G.; Chukeatirote, E.; Bahkali, A.H.; Hyde, K.D. Trichomeriaceae, a new sooty mould family of Chaetothyriales. *Fungal Diversity* **2012**, *56*, 63-76.
384. CHINNATHAMBI, A.; HIRAD, A.H.; BAHKALI, A. microBiology oF Food Processing By-Products. *Valorization of Food Processing By-Products* **2012**, 187.
385. Chen, J.; Zhao, R.-L.; Karunarathna, S.C.; Callac, P.; Raspé, O.; Bahkali, A.H.; Hyde, K.D. *Agaricus megalosporus*: a new species in section *Minores*. *Cryptogamie, Mycologie* **2012**, *33*, 145-155.
386. Chandrasekaran, M. Valorization of food processing by-products. CRC press: 2012.
387. Bahkali, A.H.; Abd-Elsalam, K.A.; Guo, J.-R.; Khiyami, M.A.; Verreet, J.-A. Characterization of novel di-, tri-, and tetranucleotide microsatellite primers suitable for genotyping various plant pathogenic fungi with special emphasis on *Fusaria* and *Mycosphaerella graminicola*. *International journal of molecular sciences* **2012**, *13*, 2951-2964.
388. Bahkali, A.; El-Samawaty, A.E.-R.M.; Yassin, M.A.; Mahmoud, M.H. Non-chemical Control Of Some Toxigenic Seed-borne Fungi Of Peanuts. *Advances in Food Sciences* **2012**, *34*, 214-218.
389. Al-Sum, B.A.; Al-Bahkali, A.H.; Filflan, S.A.; Hadi, S.; Moslem, M.A. Isolation Of Polygalacturonase-producing Strains Of *Saccharomyces Cerevisiae* From Different Sources In Saudi Arabia. *Advances in Food Sciences* **2012**, *34*, 82-84.
390. Abdel-Wahab, M.A.; Bahkali, A.H. 5 Taxonomy of filamentous anamorphic marine fungi: morphology and molecular evidence. In *Marine Fungi*, De Gruyter: 2012; pp. 65-90.
391. Zhang, Y.; Fournier, J.; Bahkali, A.; Hyde, K. *Inflatospira*, a novel lignicolous genus of Pleosporales from France. *Sydow* **2011**, *63*, 287-295.
392. Zhang, Y.; Crous, P.W.; Schoch, C.L.; Bahkali, A.H.; Guo, L.D.; Hyde, K.D. A molecular, morphological and ecological re-appraisal of Venturiales—a new order of Dothideomycetes. *Fungal diversity* **2011**, *51*, 249-277.

393. Zhang, H.; Jones, G.E.; Zhou, D.; Bahkali, A.H.; Hyde, K.D. Checklist of freshwater fungi in Thailand. *Cryptogamie, Mycologie* **2011**, *32*, 199-217.
394. Yavari, M.; Mirdamadi, S.; Masoudi, S.; Tabatabaei-Anaraki, M.; Larijani, K.; Rustaiyan, A. Composition and antibacterial activity of the essential oil of a green type and a purple type of *Ocimum basilicum* L. from Iran. *Journal of Essential Oil Research* **2011**, *23*, 1-4.
395. Yassin, M.A.; El-Samawaty, A.; Moslem, M.; Bahkali, A.; Abd-Elsalam, K. Fungal biota and occurrence of aflatoxigenic *Aspergillus* in postharvest corn grains. *Fresenius Environmental Bulletin* **2011**, *20*, 903-909.
396. Wu, H.X.; Schoch, C.L.; Boonmee, S.; Bahkali, A.H.; Chomnunti, P.; Hyde, K.D. A reappraisal of Microthyriaceae. *Fungal Diversity* **2011**, *51*, 189-248.
397. Wikee, S.; Udayanga, D.; Crous, P.W.; Chukeatirote, E.; McKenzie, E.H.; Bahkali, A.H.; Dai, D.; Hyde, K.D. Phyllosticta—an overview of current status of species recognition. *Fungal Diversity* **2011**, *51*, 43-61.
398. Wikee, S.; Cai, L.; Pairin, N.; McKenzie, E.H.; Su, Y.-Y.; Chukeatirote, E.; Thi, H.N.; Bahkali, A.H.; Moslem, M.A.; Abdelsalam, K. Colletotrichum species from Jasmine (*Jasminum sambac*). *Fungal Diversity* **2011**, *46*, 171-182.
399. van der Burgt, A.; van den Burg, H.; Stergiopoulos, I.; Ökmen, B.; Mehrabi, R.; Karimi, M.; Collemare, J.; Beenen, H.; Kema, G.; Bradshaw, R. Comparative genomics of the secretome of the Dothideomycete fungus *Cladosporium fulvum*. In Proceedings of 26th Fungal Genetics Conference, Asilomar, Pacific Grove, California, USA; p. 133.
400. Udayanga, D.; Liu, X.; McKenzie, E.H.; Chukeatirote, E.; Bahkali, A.H.; Hyde, K.D. The genus *Phomopsis*: biology, applications, species concepts and names of common phytopathogens. *Fungal diversity* **2011**, *50*, 189-225.
401. Sysouphanthong, P.; Hyde, K.; Chukeatirote, E.; Bahkali, A.; Vellinga, E. *Lepiota* (Agaricales) in northern Thailand—1. L. section *Stenosporae*. *Mycotaxon* **2011**, *117*, 53-85.
402. Suetrong, S.; Hyde, K.D.; Zhang, Y.; Bahkali, A.H.; Jones, E.G. *Trematosphaeriaceae* fam. nov. (Dothideomycetes, Ascomycota). *Cryptogamie, Mycologie* **2011**, *32*, 343-358.
403. Su, Y.-Y.; Noireung, P.; Liu, F.; HYDE, K.D.; MOSLEM, M.A.; BAHKALI, A.H.; ABD-ELSALAM, K.A.; CAI, L. The coelomycetes The coelomycetes, 1980. *Mycoscience* **2011**, *52*, 376-382.
404. Su, Y.-Y.; Noireung, P.; Liu, F.; Hyde, K.D.; Moslem, M.A.; Bahkali, A.H.; Abd-Elsalam, K.A.; Cai, L. Epitypification of *Colletotrichum musae*, the causative agent of banana anthracnose. *Mycoscience* **2011**, *52*, 376-382.
405. Shair, O.; Al-Ssum, R.; Bahkali, A. Genetic variation investigation of tilapia grown under Saudi Arabian controlled environment. *American Journal of Biochemistry and Molecular Biology* **2011**, *1*, 89-94.
406. Mehrabi, R.; Bahkali, A.H.; Abd-Elsalam, K.A.; Moslem, M.; Ben M'Barek, S.; Gohari, A.M.; Jashni, M.K.; Stergiopoulos, I.; Kema, G.H.; de Wit, P.J. Horizontal gene and chromosome transfer in plant pathogenic fungi affecting host range. *FEMS microbiology reviews* **2011**, *35*, 542-554.
407. Manamgoda, D.S.; Cai, L.; Bahkali, A.H.; Chukeatirote, E.; Hyde, K.D. *Cochliobolus*: an overview and current status of species. *Fungal diversity* **2011**, *51*, 3-42.

408. Maharachchikumbura, S.S.; Guo, L.-D.; Chukeatirote, E.; Bahkali, A.H.; Hyde, K.D. Pestalotiopsis—morphology, phylogeny, biochemistry and diversity. *Fungal Diversity* **2011**, *50*, 167-187.
409. Liu, J.-K.; Phookamsak, R.; Jones, E.G.; Zhang, Y.; Ko-Ko, T.W.; Hu, H.-L.; Boonmee, S.; Doilom, M.; Chukeatirote, E.; Bahkali, A.H. *Astrosphaeriella* is polyphyletic, with species in *Fissuroma* gen. nov., and *Neoastrosphaeriella* gen. nov. *Fungal Diversity* **2011**, *51*, 135-154.
410. Liu, J.-K.; Jones, E.G.; Chukeatirote, E.; Bahkali, A.; Hyde, K.D. *Lignincola conchicola* from palms with a key to the species of *Lignincola*. *Mycotaxon* **2011**, *117*, 343-349.
411. Ko, T.W.K.; Stephenson, S.L.; Bahkali, A.H.; Hyde, K.D. From morphology to molecular biology: can we use sequence data to identify fungal endophytes? *Fungal Diversity* **2011**, *50*, 113-120.
412. Ko, T.W.K.; McKenzie, E.H.C.; Bahkali, A.H.; To-Anun, C.; Chukeatirote, E.; Promputtha, I.; Abd-Elsalam, K.A.; Soyong, K.; Wulandari, N.F.; Sanoamuang, N. The need for re-inventory of Thai phytopathogens. *Chiang Mai Journal of Science* **2011**, *38*, 625-637.
413. Khiyami, M.A.; Al-Fadual, S.M.; Bahkalia, A.H. Polyhydroxyalkanoates production via *Bacillus* PCS biofilm and date palm syrup. *JOURNAL OF MEDICINAL PLANT RESEARCH* **2011**, *5*, 3312-3320.
414. Karunarathna, S.C.; Yang, Z.L.; Zhao, R.-L.; Vellinga, E.C.; Bahkali, A.; Chukeatirote, E.; Hyde, K.D. Three new species of *Lentinus* from northern Thailand. *Mycological progress* **2011**, *10*, 389-398.
415. El-Samawaty, A.-R.M.; Yassin, M.A.; Bahkali, A.; Moslem, M.; Abd-Elsalam, K.A. Bio-fungicidal activity of *Aloe vera* sap against mycotoxigenic seed-borne fungi. *Fresenius Environmental Bulletin* **2011**, *20*, 1352-1359.
416. Chomnunti, P.; Schoch, C.L.; Aguirre-Hudson, B.; Ko-Ko, T.W.; Hongsanan, S.; Jones, E.G.; Kodsueb, R.; Phookamsak, R.; Chukeatirote, E.; Bahkali, A.H. Capnodiaceae. *Fungal Diversity* **2011**, *51*, 103-134.
417. Cai, L.; Udayanga, D.; Manamgoda, D.S.; Maharachchikumbura, S.S.; McKenzie, E.H.; Guo, L.D.; Liu, X.Z.; Bahkali, A.; Hyde, K.D. The need to carry out re-inventory of plant pathogenic fungi. *Tropical Plant Pathology* **2011**, *36*, 205-213.
418. Boonmee, S.; Zhang, Y.; Chomnunti, P.; Chukeatirote, E.; Tsui, C.K.; Bahkali, A.H.; Hyde, K.D. Revision of lignicolous Tubeufiaceae based on morphological reexamination and phylogenetic analysis. *Fungal Diversity* **2011**, *51*, 63-102.
419. Bijina, B.; Chellappan, S.; Krishna, J.G.; Basheer, S.M.; Elyas, K.; Bahkali, A.H.; Chandrasekaran, M. Protease inhibitor from *Moringa oleifera* with potential for use as therapeutic drug and as seafood preservative. *Saudi journal of biological sciences* **2011**, *18*, 273-281.
420. Bijina, B.; Chellappan, S.; Basheer, S.M.; Elyas, K.; Bahkali, A.H.; Chandrasekaran, M. Protease inhibitor from *Moringa oleifera* leaves: Isolation, purification, and characterization. *Process Biochemistry* **2011**, *46*, 2291-2300.
421. Beena, P.; Basheer, S.M.; Bhat, S.G.; Bahkali, A.H.; Chandrasekaran, M. Propyl gallate synthesis using acidophilic tannase and simultaneous production of tannase and gallic acid by marine *Aspergillus awamori* BTMFW032. *Applied biochemistry and biotechnology* **2011**, *164*, 612-628.

422. Arif, I.A.; Khan, H.A.; Bahkali, A.H.; Al Homaidan, A.A.; Al Farhan, A.H.; Al Sadoon, M.; Shobrak, M. DNA marker technology for wildlife conservation. *Saudi journal of biological sciences* **2011**, *18*, 219-225.
423. Alenzi, F.Q.; Bahkali, A.H. Stem cells: Biology and clinical potential. *African Journal of Biotechnology* **2011**, *10*, 19929-19940.
424. Al Farhan, A.H.; Bahkali, A.H.; Shobrak, M.; Al Sadoon, M. Usefulness Of Noninvasive Methods Of DNA. *ANIMAL SCIENCE AND ISSUES* **2011**, 151.
425. Abd - Elsalam, K.; Bahkali, A.; Moslem, M.; VERREET, J.A. Development of Di - and tetranucleotide repeat primer for discrimination of Fusarium species. *Journal of Food Safety* **2011**, *31*, 35-40.
426. Abd-Elsalam, K.A.; Bahkali, A.H.; Moslem, M.A.; Al-Hazzani, A.A.; Amin, O.E.; Al-Khedhairi, A. Freeze-and thaw-based procedures for extracting DNA from activated sludge. *Polish J Environ Studies* **2011**, *20*, 643-648.
427. Abd-Elsalam, K.; Bahkali, H.; Verreet, J.; Moslem, M. Microsatellite-primed PCR as a tool for discrimination of Fusarium species. *J. Food Saf* **2011**, *31*, 35-40.
428. Abd-Elsalam, K.; Bahkali, A.H.; Moslem, M.; De Wit, P.J.; Verreet, J.-A. Detection of Mycosphaerella graminicola in wheat leaves by a microsatellite dinucleotide specific-primer. *International journal of molecular sciences* **2011**, *12*, 682-693.
429. Abd-Elsalam, K.; Bahkali, A.; Moslem, M.; Amin, O.E.; Niessen, L. An optimized protocol for DNA extraction from wheat seeds and loop-mediated isothermal amplification (LAMP) to detect Fusarium graminearum contamination of wheat grain. *International Journal of Molecular Sciences* **2011**, *12*, 3459-3472.
430. Abd_Allah, E.F.; Hashem, A.; Bahkali, A.H.; Asma, A.-H. First report of black root rot disease (Thielaviopsis basicola) of carrot in Saudi Arabia. *African Journal of Microbiology Research* **2011**, *5*, 2867-2869.
431. Zhao, K.; Liu, Y.; Wang, X. Reverse transcription loop-mediated isothermal amplification of DNA for detection of Barley yellow dwarf viruses in China. *Journal of virological methods* **2010**, *169*, 211-214.
432. Yassin, M.A.; El-Samawaty, A.-R.; Bahkali, A.; Moslem, M.; Abd-Elsalam, K.A.; Hyde, K.D. Mycotoxin-producing fungi occurring in sorghum grains from Saudi Arabia. *Fungal Diversity* **2010**, *44*, 45-52.
433. Siddiqui, M.H.; Mohammad, F.; Khan, M.N.; Al-Whaibi, M.H.; Bahkali, A.H. Nitrogen in relation to photosynthetic capacity and accumulation of osmoprotectant and nutrients in Brassica genotypes grown under salt stress. *Agricultural Sciences in China* **2010**, *9*, 671-680.
434. Sher, H.; Al-Yemeni, M.; Bahkali, A.H.; Sher, H. Effect of environmental factors on the yield of selected mushroom species growing in two different agro ecological zones of Pakistan. *Saudi journal of biological sciences* **2010**, *17*, 321-326.
435. Phengsintham, P.; Chukeatirote, E.; Bahkali, A.H.; Moslem, M.A.; Hyde, K.D.; Braun, U. Cercospora and allied genera from Laos 3. *Cryptogamie* **2010**, *31*, 305.
436. Moslem, M.; Mashraqi, A.; Abd-Elsalam, K.; Bahkali, A.; Elnagaer, M. Molecular detection of ochratoxigenic Aspergillus species isolated from coffee beans in Saudi Arabia. *Genetics and Molecular Research* **2010**, *9*, 2292-2299.

437. Moslem, M.; Bahkali, A.; Abd-Elsalam, K.; de Wit, P. An efficient method for DNA extraction from Cladosporioid fungi. *Genetics and Molecular Research* **2010**, *9*, 2283-2291.
438. Moslem, M.; Abd-Elsalam, K.; Yassin, M.; Bahkali, A. First morphomolecular identification of *Penicillium griseofulvum* and *Penicillium aurantiogriseum* toxicogenic isolates associated with blue mold on apple. *Foodborne pathogens and disease* **2010**, *7*, 857-861.
439. Ko, K.T.; Tran, H.; Stephenson, S.L.; Mitchell, D.W.; Rojas, C.; Hyde, K.; Lumyong, S.; Bahkali, A. Myxomycetes of Thailand. *Sydowia* **2010**, *62*, 243-260.
440. Khan, A.A.; Homaidan, A.; Al Farhan, A.; Bahkali, A.; AH, S.; Al Sadoon, M. Usefulness of noninvasive methods of DNA sampling but with a caution. **2010**.
441. Hyde, K.; Bahkali, A.; Moslem, M. Fungi—an unusual source for cosmetics. *Fungal diversity* **2010**, *43*, 1-9.
442. Hu, H.-L.; Fournier, J.; Jeewon, R.; Bahkali, A.H.; Hyde, K.D. Revisiting the taxonomy of *Daruvedia bacillata*. *Mycotaxon* **2010**, *114*, 135.
443. Hu, D.; Cai, L.; Chen, H.; Bahkali, A.H.; Hyde, K.D. Fungal diversity on submerged wood in a tropical stream and an artificial lake. *Biodiversity and Conservation* **2010**, *19*, 3799-3808.
444. Hu, D.; Cai, L.; Chen, H.; Bahkali, A.; Hyde, K. Four new freshwater fungi associated with submerged wood from Southwest Asia. *Sydowia* **2010**, *62*, 191-203.
445. Bahkali, A.; Abd-Elsalam, K.; Moslem, M.; Yassin, M. Microsatellite-primed Pcr Characterization Of Hydrocarbon-degrading Fungi Isolated From Two Oily Seeds. *Fresenius Environmental Bulletin* **2010**, *19*, 751-756.
446. Arif, I.A.; Bakir, M.A.; Khan, H.A.; Al Farhan, A.H.; Al Homaidan, A.A.; Bahkali, A.H.; Al Sadoon, M.; Shobrak, M. A brief review of molecular techniques to assess plant diversity. *International Journal of Molecular Sciences* **2010**, *11*, 2079-2096.
447. Arif, I.A.; Bakir, M.A.; Khan, H.A.; Ahamed, A.; Farhan, A.H.A.; Homaidan, A.A.A.; Sadoon, M.A.; Bahkali, A.H.; Shobrak, M. A simple method for DNA extraction from mature date palm leaves: impact of sand grinding and composition of lysis buffer. *International journal of molecular sciences* **2010**, *11*, 3149-3157.
448. Arif, I.; Khan, H.; Shobrak, M.; Al Homaidan, A.; Al Sadoon, M.; Al Farhan, A.; Bahkali, A. Interpretation of electrophoretograms of seven microsatellite loci to determine the genetic diversity of the Arabian Oryx. *Genetics and Molecular Research* **2010**, *9*, 259-265.
449. Arif, I.; Bakir, M.; Khan, H.; Al Farhan, A.; Al Homaidan, A.; Bahkali, A.; Al Sadoon, M.; Shobrak, M. Application of RAPD for molecular characterization of plant species of medicinal value from an arid environment. *Genet Mol Res* **2010**, *9*, 2191-2198.
450. Abd-Elsalam, K.A.; Yassin, M.A.; Moslem, M.A.; Bahkali, A.H.; de Wit, P.J.; McKenzie, E.H.; Stephenson, S.L.; Cai, L.; Hyde, K.D. Culture collections, the new herbaria for fungal pathogens. *Fungal Diversity* **2010**, *45*, 21-32.
451. Abd-Elsalam, K.; Almohimeed, I.; Moslem, M.; Bahkali, A. M13-microsatellite PCR and rDNA sequence markers for identification of *Trichoderma* (Hypocreaceae) species in Saudi Arabian soil. *Genet Mol Res* **2010**, *9*, 2016-2024.
452. Youssef, M. Natural occurrence of mycotoxins and mycotoxigenic fungi on Libyan corn with special reference to mycotoxin control. *Research Journal of Toxins* **2009**, *1*, 8-22.

453. Sánchez-Teyer, F.; Moreno-Salazar, S.; Esqueda, M.; Barraza, A.; Robert, M. Genetic variability of wild *Agave angustifolia* populations based on AFLP: A basic study for conservation. *Journal of Arid Environments* **2009**, *73*, 611-616.
454. Arif, I.A.; Khan, H.A.; Bahkali, A.H.; Al Homaidan, A.A.; Al Farhan, A.H.; Shobrak, M.; Al Sadoon, M. Comparison Of Neighbor-joining And Maximum-parsimony Methods For Molecular Phylogeny Of *Oryx* Species Using 12s Rrna And 16s Rrnagene Sequences. *Animal Biology Journal* **2009**, *1*, 1-9.
455. Abd - Elsalam, K.; GUO, J.R.; Moslem, M.; Bahkali, A.; VERREET, J.A. Suitability of intergenic spacer or internal transcribed spacer microsatellite - primed PCR for the identification of *Rhizoctonia solani* and some phytofungi. *Journal of Rapid Methods & Automation in Microbiology* **2009**, *17*, 383-397.
456. Abd-Elsalam, K.A.; Moslem, M.A.; Bahkali, A.H. First morpho-molecular identification of *Rhizoctonia solani* AG-7 from potato tuber-borne sclerotium in Saudi Arabia. *African Journal of Microbiology Research* **2009**, *3*, 952-956.
457. Khan, H.A.; Arif, I.A.; Bahkali, A.H.; Farhan, A.H.A.; Homaidan, A.A.A. Bayesian, maximum parsimony and UPGMA models for inferring the phylogenies of antelopes using mitochondrial markers. *Evolutionary Bioinformatics* **2008**, *4*, EBO. S934.
458. Bahkali, A.H.; Abd-Elsalam, K.A.; Moslem, M.A.; Al-Khedhairi, A.A. In-house protocol for isolation of restrictable and amplifiable genomic DNA from plants, fungi and bacteria. *Genes Genomes Genomics* **2008**, *2*, 77-88.
459. Abd-Elsalam, K.A.; Bahkali, H.; Al-Khedhairi, A.A.; Verreet, J.-A. Development of a conventional and Lightcycler PCR assay for detection of *Fusarium solani*. *Gene Genomes Genomics* **2008**, *2*, 63-67.
460. Bahkali, A. Biodegradation of polyethylene plastics by microbial cultures and in a compost environment. **2004**.
461. Al - Suwaini, A.; Bahkali, A.; Hasnain, S. Airborne viable fungi in Riyadh and allergenic response of their extracts. *Mycoses* **2001**, *44*, 401-406.
462. Bokhary, H.; Bahkali, A.; Parvez, S. Mycoflora of Animal and Human Hairs from Riyadh, Saudi Arabia. *Pak. J. Biol. Sci* **1999**, *2*, 65-68.
463. Bahkali, A.H. The Production of Polysaccharide Degrading Enzymes By Phytopathogenic Fungus *Verticillium tricorpus*. *Pakistan Journal of Biological Sciences* **1999**, *2*, 7730-7734.
464. Bahkali, A.; Parvez, S. Fungal flora in house dust in Riyadh, Saudi Arabia. *Mycoses* **1999**, *42*, 339-343.
465. Bahkali, A. Cell wall degrading enzymes produced by the phytopathogenic fungus *Verticillium tricorpus*. **1999**.
466. Al-Suwaine, A.S.; Hasnain, S.M.; Bahkali, A.H. Viable airborne fungi in Riyadh, Saudi Arabia. *Aerobiologia* **1999**, *15*, 121-130.
467. Al-Suwaine, A.; Bahkali, A.; Hasnain, S. Seasonal incidence of airborne fungal allergens in Riyadh, Saudi Arabia. *Mycopathologia* **1999**, *145*, 15-22.
468. Sivichai, S.; Hywel-Jones, N.; Jones, E.G. Lignicolous freshwater Ascomycota from Thailand: 1. *Ascotaiwania sawada* and its anamorph state *Monotosporella*. *Mycoscience* **1998**, *39*, 307-311.

469. Bahkali, A.; Hussain, M.; Basahy, A. Protein and oil composition of sesame seeds (*Sesamum indicum*, L.) grown in the Gizan area of Saudi Arabia. *International journal of food sciences and nutrition* **1998**, *49*, 409-414.
470. Bahkali, A.; Al-Khaliel, A.; Elkhider, K. In vitro and In vivo Production of Pectolytic Enzymes by Some Phytopathogenic Fungi Isolated from Southwest Saudi Arabia. *Journal of King Saud University. Science* **1997**, *9*, 1417.
471. Bahkali, A.; Al-Khaliel, A.; Elkhider, K. In vitro and In vivo production of pectinolytic enzymes by some phytopathogenic fungi isolated from Southwest Saudi Arabia. *Sci* **1997**, *2*, 125-137.
472. Khiyami, M.; Bahkali, A. Evaluation of methods for screening of extracellular cellulase in filamentous fungi. **1996**.
473. Bahkali, A.; Moslem, M. Seed-borne fungal contaminants of sesame (*Sesamum indicum* L.) seed in Saudi Arabia. *Arab Gulf Journal of Scientific Research* **1996**, *14*, 155-167.
474. Bahkali, A. Influence of various carbohydrates on xylanase production in *Verticillium tricorpus*. *Bioresource Technology* **1996**, *57*, 265-268.
475. Bahkali; Khiyami, M.A. Cellulose-decomposing fungi from Saudi Arabian soils. **1996**.
476. Ali, H.; Backhouse, D.; Burgess, L. *Fusarium heterosporum* associated with *Paspalum ergot* in eastern Australia. *Australasian Plant Pathology* **1996**, *25*, 120-125.
477. Bahkali, A.; Moslem, M. Production of Extracellular Amylase by Rhizosphere soil Fungi of some plants. *GEOBIO-JODHPUR*- **1995**, *22*, 157-161.
478. Bahkali, A. Production of cellulase, xylanase and polygalacturonase by *Verticillium tricorpus* on different substrates. *Bioresource technology* **1995**, *51*, 171-174.
479. Hashem; Bahkali, A.H. Toxicity of cobalt and nickel to *Fusarium solani* isolated from Saudi Arabian soil. **1994**.
480. Kanaan, Y.; Bahkali, A. Frequency and cellulolytic activity of seed-borne *Fusarium* species isolated from Saudi Arabian cereal cultivars/Häufigkeit und zellulolytische Aktivität samenbürtiger *Fusarium*-Arten an Getreidesorten in Saudiarabien. *Zeitschrift für Pflanzenkrankheiten und Pflanzenschutz/Journal of Plant Diseases and Protection* **1993**, 291-298.
481. BAHKALI, A.; KHALIEL, A.; ELKHIDER, K. Relationship Between Extracellular Polygalacturonase and Pathogenicity Loss in Different Fungal Isolates. *Journal of King Abdulaziz University-Science* **1993**, *5*, 39-44.
482. Bahkali, A. In vitro production of pectolytic and cellulolytic enzymes by *Colletotrichum lindemuthianum* isolated from soybean grown in Saudi Arabia. *World Journal of Microbiology and Biotechnology* **1992**, *8*, 55-59.
483. Bahkali, A. Production of xylanase by *Verticillium albo-atrum* in the presence of polymeric substances. *Journal of basic microbiology* **1991**, *31*, 323-327.
484. Bahkali, A. Production of xylanase by *Verticillium dahliae*. *Microbiologica* **1991**, *14*, 363-365.
485. Bahkali, A. *Vericillium ricorpus* の產生するペクチン分解酵素の特異性. **1989**.

486. BAHKALI, A. Comparative studies on cellulolytic activities of species of Verticillium. *Phyton (Buenos Aires)* **1989**, 50, 25-29.
487. Bahkali, A. Specificities of pectolytic enzymes produced by Verticillium tricorpus. **1989**.
488. Basalah, M.; Bahkali, A.; Mohammad, S. *Peroxidase activity in extracts of egg-plant (Solanum melongena L.) fruits inoculated with isolates of some fungi*; 1988.
489. Bahkali, A. Degradation of date palm (Phoenix dactylifera L.) cell walls by extracellular pectolytic enzymes produced by Verticillium albo-atrum and Verticillium dahliae. *International journal of tropical plant diseases* **1987**, 5, 165-172.
490. Bahkali, H. Studies of the pectic enzyme complex produced by Verticillium species. University College of Swansea, 1983.

RESEARCH PROJECTS

- 2003 Biodegradation of polyethylene plastics by microbial cultures and in a compost environment (2003). Sponsored by SABIC
- 2006 Isolation of thermophiles (>45 °C) and hyperthermophiles (>80 °C) bacteria and evaluation their enzyme and biosurfactants (1427). Sponsored by KACST
- 2007 Use of dates in the production of degradable biopolymers. (1428). Sponsored by KACST
- 2008 Development of a conventional and lightcycler PCR assay for detection of *Fusarium solani*. Kamel Abd-Elsalam, Ali Bahkali,, Abdul-Aziz A. Al-Khedhairi. And Joseph-Alexander Verreet. Partly granted DNA Research Chair, KSU (2008)
- 2008 Development economical DNA extraction kit from plant, fungi, and bacteria. Prof. , Dr. Ali Bahkali,, Kamel Ahmed Abd-Elsalam. Granted by Research Centre, College of Science, KSU
- 2008 Freeze- and thaw-based procedures for extraction DNA from activated sludge. Dr. Kamel Abd-Elsalam, Prof. Ali Bahkali,, Prof. Abdul-Aziz Al-Khedhairi and Mohamed Muslim . Granted by DNA Research Chair, KSU
- 2008 Mycodegradation of crude petroleum products by fungi isolated from two oil seeds (Flax and Cotton). Prof. , Dr. Ali Bahkali,, Dr. Kamel Ahmed Abd-Elsalam, Dr. Mohamed Abdo Moslem. Granted by SABIC
- 2010 Identification and functional analysis of effectors of a *Cladosporium fulvum* and *Mycosphaerella graminicola* strain from Saudi-Arabia. Granted by Highly Cited Researcher Program (2010).
- 2010 Biosynthesis of silver nanoparticles by *Neurospora stiophilla*. Granted by Research Centre, College of Science, KSU
- 2010 Molecular identification of aflatoxigenic *Aspergillus* spp. Isolated from peanuts. Granted by Research Centre, College of Science, KSU
- 2010 Antimycotic activity of Aloe vera leaves extracts against some seed-borne fungi. Granted by Research Centre, College of Science, KSU
- 2010 Natural occurrence of mycotoxin-producing fungi associated with post-harvest maize grains. Granted by Research Centre, College of Science, KSU
- 2010 Secondary Metabolites and PCR Markers to Forecast Hazard of Air-Borne Fungi in Outdoor Environment. Granted by Dean of Research, KSU
- 2010 Isothermal Amplification Based Strategies for Rapid and Early Detection of Mycotoxigenic *Fusarium* Species in Cereal Gains Imported into Saudi Arabia. Granted by NPST
- 2010 Molecular identification of the important plant pathogenic genus *Colletotrichum* – the need for a simple barcoding gene. Granted by NPST
- 2014 Nanobiotechnology Applications for Sustainable Production of Bioenergy. Granted by KACST
- 2014 Uncovering the Saudi Arabia biodiversity: molecular characterization of marine fungal communities. Granted by NPST

2017-2022 Distinguished Scientist Fellowship Program (DSFP) from King Saud University, Kingdom of Saudi Arabia

2018-2022 Project AT-35-155 from King Abdulaziz City of Science and Technology (KACST), Saudi Arabia

2018-2022 Project ISPP-0089 from International Scientific Partnership Program ISPP at King Saud University

2018-2022 Project 12-NAN-2490-2 from National Plan for Science, Technology, and Innovation (MAARIFAH), King Abdul Aziz City for Science and Technology

2018-2022 Project 12-BIO2840-02 from National Plan for Science, Technology, and Innovation (MAARIFAH), King Abdul Aziz City for Science and Technology

2019-2022 ProjectRG-1436-025 from Science and Technology Development Fund (STDF)

2020-2022 Production of biofuels from seaweeds using marine microorganisms. National Plan for Science, Technology and Innovation (MAARIFAH), King Abdulaziz City for Science and Technology, Kingdom of Saudi Arabia

2022-2023 Researchers supporting Project number (RSP-2021/367), King Saud University, Riyadh, Saudi Arabia.

2022-2023 Researchers Supporting Project Number (RSP-2021/358), King Saud University, Riyadh, Saudi Arabia.

2023-2024 Researchers Supporting Project Number (RSP2023R15), King Saud University, Kingdom of Saudi Arabia

2023-2024 Project ISPP-0089, International Scientific Partnership Program ISPP at King Saud University

2023-2024 Distinguished Scientist Fellowship Program (DSFP), King Saud University, Kingdom of Saudi Arabia

2023-2024 Research Project (IFKSUOR3-299-4), Deputyship for Research and Innovation, "Ministry of Education" in Saudi Arabia

2023-2024 Researchers Supporting Project number (RSP2023R56), King Saud University, Kingdom of Saudi Arabia

2023-2024 Researchers Supporting Project number (RSP2024R56), King Saud University, Kingdom of Saudi Arabia

2023-2024 The Researchers Supporting Project number RSP2024R367, King Saud University, Kingdom of Saudi Arabia

2023-2024 Project AT-35-155, King Abdulaziz City of Science and Technology (KACST), Saudi Arabia

2023-2024 Research project no. (IFKSUDR_F187), Deputyship for Research & Innovation, Ministry of Education in Saudi Arabia