



## Curriculum vitae



### PERSONAL INFORMATION

Name	<b>Abdulaziz Abdulrahman Al-Askar</b>	Address	Department of Botany & Microbiology Department, College of Science, King Saud University, P.O. Box 2460, Riyadh- 11451, Saudi Arabia (KSA) Mobile 00966503461390 Email : <a href="mailto:aalaskara@ksu.edu.sa">aalaskara@ksu.edu.sa</a> Website <a href="http://fac.ksu.edu.sa/aalaskara">http://fac.ksu.edu.sa/aalaskara</a>
Nationality	<b>Saudi</b>		
Position	<b>Professor 2017</b>		

### ACADEMIC RECORDS

Degree	Year	University	College	Specialty
<b>Doctor of Philosophy in Apiculture (PH.D)</b>	1992	University of Wales, UK	College of Science	<b>Microbiology</b>
<b>Bachelor of Science in Agriculture</b>	1982	King Saud University, Saudi Arabia	College of Agriculture and Food Science	Plant Protection

### Research Interest

- Plant Pathology
- Seed-borne fungal pathogens
- Biological control of fungal plant diseases
- Phytopathogenic fungi

## Employment, study history and responsibility

### Administrative Positions

- Head of Physics Department, Teachers College, KSU From xx – xxx.
- Founder and President of the Center of the Community Service and Continues learning. Xxx – xxx.
- Vice Dean for Student Affairs, College of Teachers, KSU xxx- xxx.
- Head of the Mathematic Department, College of Teachers, KSU xxx- xxx.
- Head of Science Department, College of Teachers, KSU xxx- xxx.

### Academic Positions

- - Researcher assistant (1984-1986), College of food and Agricultural Science – King Saud University, KSA.
- - Researcher (1986-1991), College of food and Agricultural Science – King Saud Univ., KSA.
- - Assistant Professor (1992), King Saud University, KSA.
- - Associate Professor (2012), King Saud University, KSA.
- - Professor (2017), King Saud University, KSA.

### Attraction of funds and research collaboration

**2009-2010 (PI) Biological Control of Common Bean *Fusarium* Root Rot Disease Using Arbuscular Mycorrhizal Fungi. Research Center grants, King Saud Univ., KSA (SR 40,000).**

**2010-2011 (PI) Microbiological and Biochemical Studies for Production of Anti- Fungal Bio-Compound(s) From Actinomycetes against Some Phytopathogenic Fungi. Sabic Scientific Research Grants (SR 45,000).**

**2011-2012 (PI) Detection of seed-borne mycoflora in alfalfa plant and control of the most prevalent pathogenic fungi. Research Center Grants, King Saud Univ., KSA (SR 50,000).**

### **Pending**

**2012 (PI) Production of antifungal bioagent(s) using *Streptomyces* spp. to control tomato seed-borne pathogenic fungi in Saudi Arabia. The Long-Term Comprehensive National Plan for Science, Technology, and Innovation General Secretariat (SR 1,700,000).**

### PATENTS

Patent from King Abdulaziz City for Science and Technology, NO. 4253 Date: 15/8/2015 “A novel strain of *Streptomyces* with potential anti-microbial activity against pathogenic fungi and bacteria “

## BOOKS AUTHORED

- A. Al-Araidh, **A.A. Al-Askar** and A.S. Ayash. **2000**. Bases of General Botany, Safeer Press, Riyadh.
- A. Al-Araidh and **A.A. Al-Askar**. **2005**. Bases of General Biology, Al-Homaidi Press, Riyadh.

## Publications:

- 1- Khalid S. Almaary 1 , Mohamed Taha Yassin 1,\* , Abdallah M. Elgorban 1 , Fatimah O. Al-Otibi 1 , **Abdulaziz A. Al-Askar** 1 and Khalid Maniah 1 Synergistic Antibacterial Proficiency of Green Bioformulated Zinc Oxide Nanoparticles with Potential Fosfomycin Synergism against Nosocomial Bacterial Pathogens 2023, 11, 645 doi.org/10.3390.
- 2- WesamEldin I. A. Saber 1,\* , **Abdulaziz A. Al-Askar** 2,\* and Khalid M. Ghoneem 3Exclusive Biosynthesis of Pullulan Using Taguchi's Approach and Decision Tree Learning Algorithm by a Novel Endophytic Aureobasidium pullulans Strains 2023, 15, 1419.
- 3- Ashraf Abdel-Fattah Mostafa, Mohamed Taha Yassin, **Abdulaziz Abdulrahman Al-Askar**, Fatimah O. Al-OtibiPhytochemical analysis, antiproliferative and antifungal activities of different Syzygium aromaticum solvent extracts January 2023, 102362
- 4- Amr H Hashem; Amer M Abdelaziz; Mahmoud M Hassanin; **Abdulaziz A. Al-Askar**; Hamada AbdElgawad;Mohamed S Attia, Potential Impacts of Clove Essential Oil Nanoemulsion as Bio Fungicides against Neoscytalidium Blight Disease of Carum carvi L. *Agronomy* ,10 April 2023.
- 5- Saied, E (Saied, Ebrahim) ; Mekky, AE (Mekky, Alsayed E.) ; Al-Askar, AA (**Al-Askar, Abdulaziz A.**) ; Hagag, AF (Hagag, Abdelrahman F.) ; Elbana, AA (El-bana, Abdullah A.) ; Ashraf, M (Ashraf, Mohamed) ; Walid, A (Walid, Abdelrahman) ; Nour, T (Nour, Taha) ; Fawzi, MM (Fawzi, Mahmoud M.) ; Arishi, AA (Arishi, Amr A.), Aspergillus terreus-Mediated Selenium Nanoparticles and Their Antimicrobial and Photocatalytic Activities, : MDPI,2023
- 6- Rubina Munir a,\* , Sumera Zaib b , Imtiaz Khan c,\* , Zirwa tul Islam a , Rosa M. Gomila d , Christopher John McAdam e , Colleen Hui Shiuan Yeow f , Jonathan M. White f , Tuncer H'okelek g , **Abdulaziz A. Al-Askar** h , Eslam B. Elkaeed i , Antonio Frontera , Molecular Structure,2023
- 7- Sumera Zaib a , Aliya Ibrar b , \* , Imtiaz Khan c , \* , Nehal Rana a , Rosa M. Gomila d , Christopher John McAdam e , **Abdulaziz A. Al-Askar** f , Eslam B. Elkaeed g , Antonio Frontera , Insight into structural topology and supramolecular assembly of tetrahydrocarbazole-carbonitrile: On the importance of noncovalent interactions and urease inhibitory profile, Molecular Structure,2023.
- 8- Esraa Hamdy 1 , **Abdulaziz A. Al-Askar** 2 , Hamada El-Gendi 3 , Wael M. Khamis 4 , Said I. Behiry 5 , Franco Valentini 6 , Kamel A. Abd-Elsalam 7,\* and Ahmed Abdelkhalek 1. Zinc Oxide Nanoparticles Biosynthesized by Eriobotrya japonica Leaf Extract: Characterization, Insecticidal and Antibacterial Properties 2023, 12, 2826. <https://doi.org/10.3390/plants12152826>.
- 9- Dalia G. Aseel 1,\* , Seham A. Soliman 1 , **Abdulaziz A. Al-Askar** 2 , Amr Elkelish 3 , Toufic Elbeaino 4 and Ahmed Abdelkhalek 1. Trichoderma viride Isolate Tvd44 Enhances Potato Growth and Stimulates the Defense System against Potato Virus Y 2023, 9, 716. <https://doi.org/10.3390/horticulturae9060716>.
- 10- Wael A. Fathy 1,2,\* , Hamada AbdElgawad 1,3 , Amr H. Hashem 4,\* , Ehab Essawy 5 , Eman Tawfik 6 , **Abdulaziz A. Al-Askar** 7 , Mohamed S. Abdelhameed 1 , Ola Hammouda 1 and Khaled N. M. Elsayed 1. Exploring Exogenous Indole-3-acetic Acid's Effect on the Growth and Biochemical Profiles of Synechocystis sp. PAK13 and Chlorella variabilis. s 2023, 28, 5501. <https://doi.org/10.3390/molecules28145501>.
- 11- **Abdulaziz A. Al-Askar** 1 , Amr H. Hashem 2,\* , Nadeem I. Elhussieny 3,4 and Ebrahim Saied 2,\* . Green Biosynthesis of Zinc Oxide Nanoparticles Using Pluchea indica Leaf Extract: Antimicrobial and Photocatalytic Activities. 2023, 28, 4679. <https://doi.org/10.3390/molecules28124679>.
- 12- Dina Elkobrosy 1 , **Abdulaziz A. Al-Askar** 2 , Hamada El-Gendi 3 , Yiming Su 4 , Rokaia Nabil 5 , Ahmed Abdelkhalek 1,\* and Said Behiry 5. Nematocidal and Bactericidal Activities of Green Synthesized Silver Nanoparticles Mediated by Ficus sycomorus Leaf Extract. 2023, 13, 1083. <https://doi.org/10.3390/life13051083>.
- 13- Sherien Sobhy 1 , **Abdulaziz A. Al-Askar** 2 , Elsayed K. Bakhiet 3 , Mohsen M. Elsharkawy 4 , Amr A. Arishi 5 , Said I. Behiry 6,\* and Ahmed Abdelkhalek 1, Phytochemical Characterization and Antifungal Efficacy of Camphor (Cinnamomum camphora L.) Extract against Phytopathogenic Fungi. s 2023, 10, 189. <https://doi.org/10.3390/separations10030189>.
- 14- Ahmed A. Heflish 1 , Said I. Behiry 1,\* , **Abdulaziz A. Al-Askar** 2 , Yiming Su 3 , Ahmed Abdelkhalek 4,\* and Mohamed K. Gaber. Rhaphiolepis indica Fruit Extracts for Control Fusarium solani and Rhizoctonia solani, the Causal Agents of Bean Root Rot. 2023, 10, 369. <https://doi.org/10.3390/separations10070369>.
- 15- Amr H. Hashem, \*a **Abdulaziz A. Al-Askar**,b Mohammad Reza Saeb,c Kamel A. AbdElsalam,d Ahmad S. El-Hawarya and Mohamed S. Hasanin . Sustainable biosynthesized bimetallic ZnO@SeO nanoparticles from pomegranate peel extracts: antibacterial, antifungal and anticancer activities. v., 2023, 13, 22918–22927.
- 16- Ebrahim Saied a , Ahmed S. Hussein b,† , **Abdulaziz A. Al-Askar** c , Nadeem I. Elhussieny d,e , Amr H. Hashem a. Therapeutic effect of biosynthesized silver nanoparticles on hypothyroidism induced in albino rats.2023 10.1016/j.ejbt.2023.06.001 0717-3458 .
- 17- Amr M. Shehabeldine1 · **Abdulaziz A. Al-Askar**2 · Hamada AbdElgawad3 · Fatouh. A. Hagra1 · Amr. A. Ramadan1 · Mohamed R. Kamel1 · Mohamed. A. Ahmed1 · Kareem. H. Atia1 · Amr H. Hashem1. Wound Dressing Scaffold with High Anti-biofilm Performance Based on Ciprofloxacin-Loaded Chitosan-Hydrolyzed Starch Nanocomposite: In Vitro and In Vivo Study. 4 July 2023.
- 18- Amr H. Hashem 1 , **Abdulaziz A. Al-Askar** 2 , Józef Haponiuk 3 , Kamel A. Abd-Elsalam 4 and Mohamed S. Hasanin 5,\* . Biosynthesis, Characterization, and Antifungal Activity of Novel Trimetallic Copper Oxide–Selenium–Zinc Oxide Nanoparticles against Some Mucorales Fungi. 2023, 11, 1380. <https://doi.org/10.3390/microorganisms11061380>.

- 19- Rubina Munir a,\* , Sumera Zaib b , Imtiaz Khan c,\* , Zirwa tul Islam a , Rosa M. Gomila d , Christopher John McAdam e , Colleen Hui Shiuan Yeow f , Jonathan M. White f , Tuncer Hokelek g , **Abdulaziz A. Al-Askar** h , Eslam B. Elkaeed i , Antonio Frontera d,\* Complex interplay of hydrogen bonding, halogen bonding and  $\pi$ -interactions in methyl 2-(7-chloro-1H-pyrazolo[3,4-b]quinolin-1-yl) acetate: Synthesis, X-ray crystallography, energetic features and anti-urease efficacy. 10.1016/j.molstruc.2023.135625 Received 11 March 2023.
- 20- Seham A. Soliman 1 , **Abdulaziz A. Al-Askar** 2 , Sherien Sobhy 1 , Marwa A. Samy 1 , Esraa Hamdy 1 , Omaima A. Sharaf 3 , Yiming Su 4 , Said I. Behiry 5,\* and Ahmed Abdelkhalek 1, Differences in Pathogenesis-Related Protein Expression and Polyphenolic Compound Accumulation Reveal Insights into Tomato–Pythium aphanidermatum Interaction. 2023, 15, 6551. <https://doi.org/10.3390/su15086551>.
- 21- Amer M. Abdelaziz 1,\* , Deiaa A. El-Wakil 2 , Amr H. Hashem 1,\* , **Abdulaziz A. Al-Askar** 3 , Hamada AbdElgawad 4 and Mohamed S. Attia 1. Efficient Role of Endophytic *Aspergillus terreus* in Biocontrol of *Rhizoctonia solani* Causing Damping-off Disease of *Phaseolus vulgaris* and *Vicia faba*. s 2023, 11, 1487.
- 22- Gaber Attia Abo-Zaid 1,\* , Ahmed Salah Abdullah 1 , Nadia Abdel-Mohsen Soliman 1 , Ebaa Ebrahim El-Sharouny 2 , **Abdulaziz A. Al-Askar** 3 , Yiming Su 4 , Ahmed Abdelkhalek 5,\* and Soraya Abdel-Fattah Sabry 2. Evaluation of Bio-Friendly Formulations from Siderophore-Producing Fluorescent *Pseudomonas* as Biocontrol Agents for the Management of Soil-Borne Fungi, *Fusarium oxysporum* and *Rhizoctonia solani*. e 2023, 13, 1418.
- 23- Helmy A. Aamer, **Abdulaziz A. Al-Askar**, Mahmoud A. Gaber, Rania El-Tanbouly, Ahmed Abdelkhalek\*, Said Behiry\*, Mohsen M. Elsharkawy, Przemysław Łukasz Kowalczewski, Sarah El-Messeiry. Extraction, phytochemical characterization, and antifungal activity of *Salvia rosmarinus* extract. 2023; 21: 20230124.
- 24- Wael M. Khamis 1 , Ahmed A. Heflish 2 , Sarah El-Messeiry 3 , Said I. Behiry 2,\* , **Abdulaziz A. Al-Askar** 4 , Yiming Su 5 , Ahmed Abdelkhalek 6,\* and Mohamed K. Gaber 7. *Swietenia mahagoni* Leaves Extract: Antifungal, Insecticidal, and Phytochemical Analysis. 2023, 10, 301.
- 25- Mohamed S. Hasanin a,† , Amr H. Hashem b,† , **Abdulaziz A. Al-Askar** c , Józef Haponiuk d , Ebrahim Saied b. A novel nanocomposite based on mycosynthesized bimetallic zinc-copperoxide nanoparticles, nanocellulose and chitosan: Characterization, antimicrobial and photocatalytic activities. (2023) 45–55.
- 26- **Abdulaziz A. Al-Askar** 1 , Shimaa Bashir 2 , Abdallah E. Mohamed 3 , Omaima A. Sharaf 4 , Rokaia Nabil 5 , Yiming Su 6 , Ahmed Abdelkhalek 2,\* and Said I. Behiry 5,. Antimicrobial Efficacy and HPLC Analysis of Polyphenolic Compounds in a Whole-Plant Extract of *Eryngium campestre*. 2023, 10, 362.
- 27- Amr M. Shehabeldine 1,\* , Ahmed S. Doghish 2,3,\* , Walaa A. El-Dakroury 4 , Mahmoud M. H. Hassanin 5 , **Abdulaziz A. Al-Askar** 6 , Hamada AbdElgawad 7 and Amr H. Hashem 1,. Antimicrobial, Antibiofilm, and Anticancer Activities of *Syzygium aromaticum* Essential Oil Nanoemulsion. 2023, 28, 5812.
- 28- **Abdulaziz A. Al-Askar** 1 , Dalia G. Aseel 2 , Hamada El-Gendi 3 , Sherien Sobhy 2 , Marwa A. Samy 2 , Esraa Hamdy 2 , Sarah El-Messeiry 4 , Said I. Behiry 5 , Toufic Elbeaino 6,\* and Ahmed Abdelkhalek 2. Antiviral Activity of Biosynthesized Silver Nanoparticles from Pomegranate (*Punica granatum* L.) Peel Extract against Tobacco Mosaic Virus. 2023, 12, 2103.
- 29- Mohamed S. ATTIA1 \* , Mohamed H. SHARAF1 , Amr H. HASHEM1 , Amira Y. MAHFOUZ2 , Ghadir E. DAIGHAM2 , **Abdulaziz A. AL-ASKAR**3 , Hamada ABDELGAWAD4 , Mahmoud S. OMAR1 , Ali E. THABET1 , Mahmoud M. ABDALMOHSEN1 , Yousef R. ELADLY1 , Amer M. ABDELAZIZ1. Application of *Rhizopus microsporus* *Rhizopus microsporus* and *Aspergillus oryzae* *Aspergillus oryzae* to enhance the defense the defense capacity of eggplant seedlings capacity of eggplant seedlings capacity of eggplant seedlings against *Meloidogyne incognita* *Meloidogyne incognita*. 2023. Received in revised form: 06 Aug 2023. Accepted: 21 Sep 2023. Published online: 25 Sep 2023.
- 30- Amr H. Hashem 1,\* , **Abdulaziz A. Al-Askar** 2 , Hamada Abd Elgawad 3 and Amer M. Abdelaziz 1. Bacterial Endophytes from *Moringa oleifera* Leaves as a Promising Source for Bioactive Compounds. s 2023, 10, 395. <https://doi.org/10.3390/separations10070395>.
- 31- Khalid M. Ghoneem 1 , Deiaa A. El-Wakil 1 , Mohamed I. M. Ahmed 1 , Hisham M. Kamel 1 , Ehsan M. Rashad 1 , **Abdulaziz A. Al-Askar** 2,\* , Elsherbiny A. Elsherbiny 3 and Amira A. Ibrahim 4,. Biodiversity of *Rhizoctonia solani* in *Phaseolus vulgaris* Seeds in East Delta of Egypt. 2023, 13, 1317. <https://doi.org/10.3390/agronomy13051317>.
- 32- Asmaa Ramadan 1, Mohamed O. Abdel-Monem 1, Noha K. El-DougDoug 1, Alsayed E. Mekky 2, Shymaa A. Elaskary 3, **Abdulaziz A. Al-Askar** 4, Shimaa A. Metwally 5 , Ahmed F. El-Sayed 6,7 ,Gehad AbdElgayed 8, Ebrahim Saied 2 and Mohamed Khedr 2,\* 2,\*Fully Characterized Effective Bacteriophages Specific against Antibiotic-Resistant *Enterococcus faecalis*, the Causative Agent of Dental Abscess.2024,60,501.<https://doi.org/10.3390/medicina60030501>.
- 33- Alsayed E. Mekky 1,\* , Ahmed E. M. Abdelaziz 2 , Fady Sayed Youssef 3 , Shymaa A. Elaskary 4 , Aly A. Shoun 5,Eman A. Alwaleed 6 , Mahmoud Ali Gaber 1 , **Abdulaziz A. Al-Askar** 7 , Alhadary M. Alsamman 1 , Abdullah Yousef 8 ,Gehad AbdElgayed 9 , Reda A. Suef 1 , Mohamed A. Selim 1 , Ebrahim Saied 1 and Mohamed Khedr 1.Unravelling the Antimicrobial, Antibiofilm, Suppressing Fibronectin Binding Protein A (fnba) and cna Virulence Genes,Anti-Inflammatory and Antioxidant Potential of Biosynthesized *Solanum lycopersicum* Silver Nanoparticles.2024,60(3),515.<https://doi.org/10.3390/medicina60030515>.
- 34- Karrar A. Hamzah, **Abdulaziz Al-Askar**, Przemysław Kowalczewski, Ahmed Abdelkhalek\*, Haitham H. Emaish, Said Behiry\* .A comparative study of the antifungal efficacy and phytochemical composition of date palm leaflet extracts.2024,22,44. <https://doi.org/10.1515/chem-2024-0044>.
- 35- Yara Yassin1 · Dalia Aseel1 · Abdallah Khalil2 · Ahmed Abdel-Megeed3 · **Abdulaziz Al-Askar**4 · Toufic Elbeaino5 · Hassan Moawad6. Said Behiry7 · Ahmed Abdelkhalek1. Foliar Application of *Rhizobium leguminosarum* bv. *viciae* Strain 33504-Borg201 Promotes Faba Bean Growth and Enhances Systemic Resistance Against Bean Yellow Mosaic Virus Infection.2024,81,6. <https://doi.org/10.1007/s00284-024-03733-6>.
- 36- Heba Fathy Abd-Elkhalek, Ali A. Badawy, **Abdulaziz A. Al-Askar**, Hamada Abd Elgawad, Amr Hosny Hashem, and Salem Salah Salem\*.Biosynthesis and characterization of selenium and silver nanoparticles using *Trichoderma viride* filtrate and their impact on *Culex pipiens*.2024.13.0025.<https://doi.org/10.1515/gps-2024-0025>.
- 37- Heba Y. EL-BANNA1, **Abdulaziz A. ALASKAR**2\*, Dragana Z. JAKOVLJEVIĆ3, Khaled ABDELAAL4\*, Samia A. HAROUN5, Lina M. ABU-ZIADA5, Mohamed A. ABBAS5, Rasha M.E. GAMEL5. Essential oil constituents and secondary metabolites of *Mentha viridis* under tissue culture technique using violet visible light emitting diodes (LEDs).2024.52.13684. <https://doi.org/10.15835/nbha52213684>.

- 38- Ahmed Abdelkhalek1,\*, Eman A. Abdelwahab2, Saad F. Elalem2, **Abdulaziz A. Al-Askar**3, Przemysław Ł. Kowalczewski4, Said Behiry5,\*. Phytochemical composition and antifungal effectiveness of Phoenix dactylifera L. rachis extracts.2024.26.0037. <https://doi.org/10.2478/pjct-2024-0037>.
- 39- Noha M. Eldadamony a, Abeer A. Ghoniem b, **Abdulaziz A. Al-Askar** c, Attia A. Attia d, Mohammed S. El-Hersh b, Khaled M. Elattar e,\*, Haifa Alrdahi f, WesamEldin I.A. Saber b,\*\*. Optimization of pullulan production by Aureobasidium pullulans using semi-solid-state fermentation and artificial neural networks: Characterization and antibacterial activity of pullulan impregnated with Ag-TiO2 nanocomposite.2024.269.132109. <https://doi.org/10.1016/j.ijbiomac.2024.132109>.
- 40- Khaled M Elattar 1, Abeer A Ghoniem 2, **Abdulaziz A Al-Askar** 3, Usama Bhgat El-Gazzar 4, Mohammed S El-Hersh 2, Elsherbiny A Elsherbiny 5, Noha M Eldadamony 6, WesamEldin I A Saber 2. Melanin Synthesized by the Endophytic Aureobasidium pullulans AKW: A Multifaceted Biomolecule with Antioxidant, Wound Healing, and Selective Anti-Cancer Activity.2024.24.1333. <https://doi.org/10.2174/0115680266300091240730111333>.
- 41- Ahmed ABDELKHALEK1\*, Moustafa ELSHAER2, **Abdulaziz AL-ASKAR**3, Przemysław KOWALCZEWSKI4, Said BEHIRY5. Antimicrobial activities and metabolites profiling of Heliotropium bacciferum Forssk. methanolic extract.2024.52.13602. <https://doi.org/10.15835/nbha52313602>.
- 42- Eman Jassim Mohammed 1, Ahmed E M Abdelaziz 2, Alsayed E Mekky 3, Nashaat N Mahmoud 3, Mohamed Sharaf 4 5, Mahmoud M Al-Habibi 6, Nehal M Khairy 7 8, **Abdulaziz A Al-Askar** 9, Fady Sayed Youssef 10, Mahmoud Ali Gaber 3, Ebrahim Saied 3, Gehad AbdElgayed 11, Shimaa A Metwally 12, Aly A Shoun 13. Biomedical Promise of Aspergillus Flavus-Biosynthesized Selenium Nanoparticles: A Green Synthesis Approach to Antiviral, Anticancer, Anti-Biofilm, and Antibacterial Applications.2024. 17.915. <https://doi.org/10.3390/ph17070915>.
- 43- Fathy M. Elkady1 Bahaa M. Badr2,3 Amr H. Hashem4 \* Mohammed S. Abdulrahman1 Amer M. Abdelaziz4 **Abdulaziz A. Al-Askar**5 Gehad AbdElgayed6 Hany R. Hashem7\*.Unveiling the Launaea nudicaulis (L.) Hook medicinal bioactivities: phytochemical analysis, antibacterial, antibiofilm, and anticancer activities.2024.15. 1454623. <https://doi.org/10.3389/fmicb.2024.1454623>.
- 44- Isabela Martins Bueno Gato 1, Carlos Eduardo da Silva Oliveira 2, Arshad Jalal 1, Vitória de Almeida Moreira 1, Amr H. Hashem 3, Bruno Horschut de Lima 1, Gabriel da Silva Leite 1, **Abdulaziz A. Al-Askar** 4, Leandro Alves Freitas 1, Hamada AbdElgawad 5, Selton Vinicius Domingos Ferreira 1, Leticia de Jesus Santana 1, Andréa de Castro Bastos 1, Fernando Shintate Galindo 6, Tiago Zoz 7 and Marcelo Carvalho Minhoto Teixeira Filho 1\*.Nitrogen uptake, grain yield, and oil concentration of dwarf castor beans under nitrogen rates and inoculation of rhizobacteria in grasses–legumes rotation.2024.15. 1451514. <https://doi.org/10.3389/fmicb.2024.1451514>.
- 45- Mohamed K. Y. Soliman , Amr H. Hashem , **Abdulaziz A. Al-Askar** , Gehad AbdElgayed and Salem S. Salem. Green synthesis of silver nanoparticles from Bauhinia variegata and their biological applications.2024.13.0099. <https://doi.org/10.1515/gps-2024-0099>.
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- 47- Mansour A.E. Bashar1, Abdelaaty Hamed2, Mohamed A. M. El-Tabakh1, Amr H. Hashem3\*, Ahmed A. Zaki4, **Abdulaziz A. Al-Askar**5, Eman S. Abou-Amra6, Mohamed E. El-Beeh7, Ahmed B. M. Mehany8, Mohamed Shaaban9\*, Amer M. Abdelaziz3, Khaled A. Shaaban10 & Ahmed I. Hasaballah11. Anticancer, antimicrobial, insecticidal and molecular docking of sarcotrocheliol and cholesterol from the marine soft coral Sarcophyton Trocheliophoru.2024Nov14;14(1):28028.doi: 10.1038/s41598-024-75446-6.
- 48- Khaled Abdelaal1\*, **Abdulaziz Alaskar**2\* and Yaser Hafez3.Effect of arbuscular mycorrhizal fungi on physiological, bio-chemical and yield characters of wheat plants (Triticum aestivumL.) under drought stress conditions.24:1119 (2024) <https://doi.org/10.1186/s12870-024-05824-9>.
- 49- Helmy A. Aamer, **Abdulaziz A. Al-Askar**, Rania El-Tanbouly, Eman A. Abdelwahab, Przemysław Ł. Kowalczewski, Sarah El-Messeiry, Ahmed Abdelkhalek\*, Said Behiry Phytochemical analysis of Bienertia sinuspersici extract and its antioxidant and antimicrobial activities.2024. <https://doi.org/10.1515/opag-2022-0399>.
- 50- Said Behiry , Eman A. Abdelwahab , **Abdulaziz A. Al-Askar** , Przemysław Kowalczewski and Ahmed Abdelkhalek..HPLC and GC–MS analyses of phytochemical compounds in Haloxylon salicornicum extract: Antibacterial and antifungal activity assessment of phytopathogens.2024. <https://doi.org/10.1515/chem-2024-0115>.
- 51- Wael Khamis, **Abdulaziz Al-Askar**, Przemysław Kowalczewski, Ahmed Abdelkhalek\*, Said Behiry\* Phytochemical composition and insecticidal activity of Acokanthera oblongifolia (Hochst.) Benth & Hook.f. ex B.D.Jacks. extract on life span and biological aspects of Spodoptera littoralis (Biosd.).2024. <https://doi.org/10.1515/opag-2022-0394>.