



Curriculum Vitae

Prof. Ali bin Kanakher Aldalbahi,

Dean of Student Affairs and Chairman of the Board of
Directors of the Student Fund at King Saud University

Personal Information

Name: Ali bin Kanakher Al-Dalbahi **Scientific rank:** Professor

Employer: Department of Chemistry – Faculty of Science – King Saud University.

General Specialization: Chemistry

Specific Specialization: Nanotechnology and Polymers

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Academic and Professional Certificates

1- **PhD** in Chemistry from the University of Wollongong, Australia – the year 2013 specializing in nanotechnology and polymers.

2- **Project Management Diploma** from the Higher Technical Institute in New South Wales, Australia – 2009.

3- **The fifth certificate in project management** from the Higher Technical Institute in New South Wales, Australia – 2009.

4- **Master's degree in chemistry** from the University of Wollongong, Australia – 2008.

5- **Bachelor's degree in Chemistry** from King Saud University – 2003.

Job Information

- Professor in the Department of Chemistry - King Saud University from 2021.
- Associate Professor in the Department of Chemistry - King Saud University from 2017-2020.
- Assistant Professor in the Department of Chemistry - King Saud University from 2013-2017.
- Assistant in the Department of Chemistry – at King Saud University from 2003-2013.

Administrative work and committees

1. Dean of Student Affairs at King Saud University from 2021 to date.
2. Chairman of the Board of Directors of the Student Fund at King Saud University from 2021 to date.
3. Vice Chairman of the Board of Directors of the Saudi Chemical Society from 2019 to date.
4. Member of the Board of Directors of King Saud University Theater 2023 until now.
5. Chairman of the Committee for preparing the Strategic Plan of the Deanship of Student Affairs 2020-2025.
6. Member of the committee to prepare the strategic plan for King Saud University 2020-2030.
7. Member of the Board of Directors of the Charitable Fund at King Saud University 2021 to date.
8. Chairman of the Standing Committee for Student Discipline at King Saud University 2021.
9. Member of the Deans of Student Affairs Committee at Saudi Universities 2021 to date.
10. Member of the Deans of Student Affairs Committee at Gulf Universities 2021 to date.
11. Chairman of the Permanent Committee to Combat Smoking at King Saud University 2021.

12. Chairman of the Standing Committee for the Protection of Student Rights at King Saud University.
13. Member of the Permanent Supervisory Committee for Persons with Disabilities at King Saud University 2023 to date
14. Chairman of the Standing Committee for Promoting Positive Behaviors at King Saud University 2023 to date
15. Member of the Supervisory Committee of the Intellectual Awareness Unit at King Saud University 2023 to date
16. Member of the implementation team of the Nabih and Weqaya initiative for university education in the educational track of the Executive Committee of the National Committee for Drug Control 2022.
17. Chairman of the Organizing Committee of the Third Theater Festival at Saudi Universities 2023.
18. Member of the Pandemic Control Committee at King Saud University 2021-2023.
19. Member of the control team at the University Medical City, King Saud University, 2021-2023.
20. Member of the Standing Committee for Examining Public Offers, Auctions, and Leasing at King Saud University 2021-2023.
21. Member of the Standing Committee for Transport and Traffic Safety at King Saud University 2021-2023.
22. Member of the committee to develop all plans and measures to ensure the safe and physical return of university students for the year 2021.
23. Member of the Committee for Promoting Awareness of Drug Harm at King Saud University 2021.
24. Vice Chairman of the Social Responsibility and Voluntary Work Committee at King Saud University 2021 to date.
25. Vice Dean of Student Affairs for Student Activities and Partnership from 2020 to 2021.

26. Undersecretary of the King Abdullah Institute for Nanotechnology for Research Affairs from 2015 to 2020.
27. Founder and Director of the Talented and Talented Program at King Saud University from 2015 to 2020.
28. Founder and supervisor of the Student Nano Club from 2015 to 2019.
29. Founder of the club of outstanding and talented students and supervisor of the club from 2016 to 2017.
30. Chairman of the Dean's Award Committee at the Deanship of Student Affairs from 2017 to date.
31. Member of the Preparation Committee for the Career Week for 2016 and 2018.
32. Chairman of the Scientific Committee at the King Abdullah Institute for Nanotechnology from 2015 to 2020.
33. Chairman of the Recruitment and Human Resources Committee at the King Abdullah Institute for Nanotechnology from 2015 to 2019.
34. Chairman of the Graduates and Human Resources Committee in the Department of Chemistry from 2017 to date.
35. Member of the Alumni Committee at the Faculty of Science from 2017 to 2018.
36. Member of the Preparation Committee for the Scientific Phenomena Exhibition at the Faculty of Science for the year 2016.
37. Rapporteur of the Community Service Committee in the Department of Chemistry from 2013 to 2014.
38. Coordinator of graduation projects in the Department of Chemistry from 2013 to 2016.
39. Chairman of the Vocational Training Committee in the Department of Chemistry from 2014 to 2016.
40. Member of the Polymer Master Committee in the Department of Chemistry from 2014 to 2021.
41. Member of the Vocational Training Committee at the Faculty of Science from 2014 to 2016.

42. General Supervisor of Specialized Activities and Clubs at the Faculty of Science from 2014 to 2016.
43. Coordinator of Organic Chemistry from 2014 to 2017.
44. Member of the Supreme Standing Committee of the Talented and Talented Program at King Saud University from 2015 to 2020.
45. Member of the Research Center at the Faculty of Science from 2017 to 2019.
46. Member of the ISO Committee at the King Abdullah Institute for Nanotechnology from 2017 to 2018.
47. Member of the Strategic Plan Committee of King Abdullah Institute for Nanotechnology from 2017 to 2018.
48. Chairman of the Public Relations and Preparation Committee for the Sixth International Conference on Chemistry, which was held in Riyadh in 2016.
49. Member of the Jury of the Bachelor of Chemistry Program at Taif University for the year 2016.
50. Chairman of the Public Relations Committee at the Seventh International Conference on Chemistry, which was held at King Saud University in 2018.
51. Director of the project of transfer and localization of expertise in advanced technologies for students of King Saud University 2018.
52. Chairman of the Ideal Student Selection Committee at King Saud University from 2019 to 2023.
53. Head of the Summer Enrichment Program at King Saud University for students of the King Abdulaziz Foundation and his men for talent and creativity (Mawhiba) - 2020.
54. Chairman of the Organizing Committee for the University's celebration of the National Day for the year 2020 until 2023.
55. Chairman of the ISO Committee at the Deanship of Student Affairs 2020.
56. Executive Director of the graduation ceremony project for the 63rd batch of students of King Saud University for the year 2022.
57. Head of the International Summer Enrichment Program at King Saud University for students of the King Abdulaziz Foundation and his men for talent and creativity (Mawhiba) – 2020 – 2023.
58. Representative of King Saud University to Mawhiba Foundation in preparation for the International Chemistry Olympiad, which will be held at the university in 2024.

Training courses & Workshops

1. Leadership Course – Oxford University – Britain -2019
2. A one-year English course at the University of Wollongong, Australia, in 2006.
3. A course in developing the skills of postgraduate students - University of Wollongong - Australia in 2006.
4. Course in Radiation Protection – Radioactive Pollution Center - Australia in 2006.
5. Course in Safe Use of Preventive Methods at Work - University of Wollongong - Australia in 2009.
6. A course in the use of the thermal disintegration device TGA - University of Wollongong - Australia in 2009.
7. Course in the use and handling of liquid nitrogen - University of Wollongong - Australia in 2009.
8. Workshop on Academic Work - University of Wollongong - Australia in 2010.
9. Course design and construction course – Deanship of Skills Development – King Saud University - 2013.
10. Effective University Teaching Course – Deanship of Skills Development – King Saud University – 2013.
11. Evaluation of Learning Outcomes Course – Deanship of Skills Development – King Saud University – 2013.
12. Microteaching Course – Deanship of Skills Development – King Saud University – 2013.
13. Course on the use of Google tools in education – Deanship of Skills Development – King Saud University – 2014.
14. Course of the first meeting with grade students – Deanship of Skills Development – King Saud University –2014.
15. Problem Solving Teaching Course – Deanship of Skills Development – King Saud University – 2014.
16. Polymer Technologies Course – Higher Institute of Plastic Industries - 2014.

17. Teaching and Learning Course – University of Halifax – Canada – 2014.
18. Professional Writing Course in Higher Education: Submission, Publishing, Editing and Reviewing – Deanship of Skills Development – King Saud University – 2015.
19. Quality Management System Course in Educational Institutions: ISO 9001:2008 – Deanship of Skills Development – King Saud University – 2015.
20. Skills Record Evaluation Workshop – Deanship of Student Affairs – King Saud University – 2015.
21. Course in Polymer Technologies – American Chemical Society – Boston – 2015.
22. Course in Nanotechnology Applications – King Abdullah Institute of Nanotechnology - 2017.
23. Workshop on Characterization of Nanomaterials with Devices – King Abdullah Institute for Nanotechnology, 2018.
24. Leadership Course – Manchester – Britain - 2018.
25. Scientific Research Workshop – Manchester – Britain - 2018.
26. Electromagnetic Spinning Workshop for Nanofibers – King Saud University - 2018.
27. Workshop on Excellence and Creativity in University Education (Personal Development) – King Saud University – 2018.
28. Nanomaterials Design and Preparation Workshop for Environmental and Medical Applications – King Saud University -2018.
29. Mass spectrometry course - King Saud University – 2018.
30. Electron Microscopes Course STM and TEM - King Saud University -2018.
31. Chemicals Management Workshop in Educational Laboratories – King Saud University -2018.
32. Human Resources Planning Course – Institute of Public Administration – 2020.
33. Executive Planning Course – Institute of Public Administration – 2020.
34. Building an Effective Organizational Culture Course – Institute of Public Administration – 2020.
35. Time Management Course – Institute of Public Administration – 2020.

36. Employee Motivation Course – Institute of Public Administration – 2020.
37. Change Management Course – Institute of Public Administration – 2020.
38. Classroom Evaluation Course – King Abdulaziz and Men Foundation for Giftedness and Creativity – 2020 AD.
39. Administrative Leadership Course – Institute of Public Administration – 2020.
40. General Skills Course - Distance Teaching Strategies - King Abdulaziz and His Men Foundation for Giftedness and Creativity – 2020 AD.
41. Management Leadership Skills Course according to Vision 2030- Deanship of Skills Development-2022.
42. Strategic Planning, Building and Developing Performance Indicators Course - Deanship of Skills Development-2022.
43. Employee Role in Achieving Saudi Vision 2030- Deanship of Skills Development-2023.

Membership of scientific committees and societies

1. Member of the Committee for Community Awareness of Chemical Pollutants.
2. Member of the National Center for Measurement and Evaluation.
3. Member of the Saudi Chemical Society (SCS).
4. Member of the Australian Nanotechnology Association.
5. Member of the Management Association of Australia.
6. Member of the Materials Science Society.
7. Member of the American Chemical Society (ACS).

Scientific conferences:

1. National Conference for Young Leaders - Wollongong (Australia) - 2009.
2. The 23rd Conference of Graduate Students at the University of Wollongong (Australia) – 2009.
3. Conference on Conductive Materials at the University of Wollongong (Australia) - 2009.
4. The 19th International Conference on Materials Engineering in Shanghai (China) - 2011.
5. Twelfth International Conference on Carbon Nanotube Science and Applications in Brisbane (Australia) - 2012.
6. Seventh International Conference on Nanomaterials in Prague (Czech Republic) - 2012.
7. Eighth International Conference on Advanced Materials and Preparations in Hawaii (America) – 2014.
8. Fifth International Conference on Nanotechnology in Vienna (Austria) – 2014.
9. 2014 Natural Polymers Conference in Philadelphia (America) – 2014.
10. The Second International Conference on Chemistry Sciences and Applications in Chicago (America) – 2014.
11. International Conference of the Materials Science Association for Fall 2014 in Boston (America) – 2014.
12. Nanomaterials and their Applications in Energy Technology Conference in Los Angeles(USA) – 2015

13. International Conference of the Materials Science Association Spring 2015 in San Francisco (America) – 2015.
14. The First Kuwait International Nano Conference in Kuwait (Kuwait) - 2016A.D.
15. Sixth International Chemistry Conference – Riyadh (Saudi Arabia) – 2016.
16. 253rd American International Chemical Society Conference on Advanced Materials and Technology – San Francisco (America) in 2017.
17. Conference and Meeting of the American Chemical Society 255 for Energy and Water – New Orleans (America) in 2018.
18. Third Asbar International Conference – Kingdom of Saudi Arabia in 2018.
19. The Second Gulf Chemists Forum – Manama – Bahrain -2019.
20. International Science Conference - King Saud University - Riyadh - 2022.
21. The 55th International Chemistry Olympiad Conference - Switzerland - 2023.

Supervising scientific theses and refereeing research

A- Supervising several master's and doctoral theses in the field of chemistry and nanotechnology:

1. Student Ghazal Al-Zuhair (PhD / 2023AD) Thesis Title: **Investigating the Effect of Various Organic Molecules on the Stability and Efficiency of Perovskite Solar Cells**
2. Student Khawater Al-Enazi (Master / 2020AD) Thesis Title: **Preparation of composite nanomaterials and their applications in sensors**

3. Student Bader Mohammed Thamer (PhD/2018AD) Thesis Title: **Construction of Electrically Spun Carbon Nanofibers Containing Organic Functional Groups for Water Treatment.**
4. Student Bandar Al-Otaibi (PhD/2019AD) Thesis Title: **Comparison and Characterization of the Effect of Mixing Polypropylene Polymers with Modern Prepared Flame Retardants.**
5. Student Bandar Saud Al-Duhaim (PhD/2019AD) Thesis title: **The plastic possibilities of color values in the light of nanotechnology as an input to enrich the decorative painting "A proposed applied approach".**
6. Student Abdulaziz Al-Rahili (MA /2018AD) Thesis Title: **Preparation and Characterization of Nanocomposites of Conductive Polymer and Porous Titanium Oxide to Remove Water Contaminants.**

(b) Arbitration of theses, scientific research, and graduation projects:

1. Arbitration of master's and doctoral theses in the Department of Chemistry and a number of Saudi universities.
2. Arbitrator and Deputy Editor-in-Chief of the Arab Journal of Chemistry.
3. Arbitrator in Materials Chemistry B
4. Arbitrator in the Journal of Scientific Reports- Nature Group
5. ACS Applied Materials & Interface

Awards and Certificates of Appreciation

1. Certificate of thanks and appreciation from the Human Resources Development Fund for contributing to the success of the career guidance initiative in universities-2023.
2. Listed among the top 2% of the most cited scientists in various disciplines(Now Technology and Materials) according to a 2023 study by Stanford University researchers
2. Certificate of thanks and appreciation from King Abdulaziz and His Companions Foundation for Giftedness and Creativity for supervising the Chemical Applications Unit in Mawhiba Academic Enrichment Program 2023.
3. Award of the Union of Arab Scientific Research Councils in the field of innovation (first place) - League of Arab States - 2021.
4. Obtaining the Research Center Award for Research Excellence and Scientific Publishing (First Place) – King Saud University - 2018.
5. Certificate of thanks and appreciation from the Higher Institute of Plastic Industries – 2018.
6. Certificate of thanks and appreciation from Taif University for participating in the arbitration of academic programs in the university's program transformation project for 2017.

Scholarly publishing

Activity		Number		
Publications	Patents	8		
	Books	1		
	Book Chapters	1		
	Articles	243		
Citations Data	Citation Source	Scopus	ISI Web of Science.	Google Scholar
	Number of Citations	6502	6114	7360
	<i>h-index</i>	45	43	50

Patents

1. Methods and materials for the removal of the rose Bengal dye from aqueous solution, (US 9334176B1).
2. Synthesis of Zinc Oxide Nanoparticles using Cymbopogon Proximus Extract (US 10358356B1).
3. Method of preparing biologically active derivatives from flowers (US10111918).
4. Synthesis of Titanium Dioxide Nanoparticles using Cymbopogon Proximis (US 10301187B1).
5. Synthesis of metal oxide Nanoparticles using Kalanchoe Blossfeldiana Extract (US 10703641B1).
6. Bio Buckypaper Synthesized with Fish Scales (US 10689257B1).
7. Method of Making an Asymmetric Polyvinylidene Difluoride Membrane (US 10576429B1).
8. Copper oxide nanoparticles synthesized using Rhatany root extract (US 11718537)

Books:

- **Al-Aldalbahi** et al. Carbon-Containing Polymer Composite, Springer, 2019, ISBN# 978-981-13-2687-5.

Book chapter:

- **Al-Aldalbahi** et al. Recent Advances in Preparation and Characterization of Graphene-Based Nanocomposite Membranes for Water Purification, Springer, In book: Environmental Remediation Through Carbon-Based Nano Composites pp.403-425, Chapter: 19.

Articles

Publications: (selected 40 articles from 243)

1. Khadka, Ashwin, Jung Woo Huh, Woojin Lim, Bhavana Joshi, **Ali Aldalbahi**, Mostafizur Rahaman, Jaehyung Lim, and Sam S. Yoon. "Water-repelling, vapor-resisting, self-cleaning, oil–water-separating, water-purifying, antibacterial Hanji cellulose papers coated with Teflon and ZnO particles via supersonic spraying." Applied Surface Science 634 (2023): 157551. (IF: 7.39, Q1).
2. Kim, Taegun, Bhavana Joshi, Woojin Lim, Edmund Samuel, **Ali Aldalbahi**, Govindasami Periyasami, Hae-Seok Lee, Seongpil An, and Sam S. Yoon. "Scalable, flexible BaTiO₃/PVDF piezocomposites prepared via supersonic spraying for use in energy harvesting and integrated energy storage devices." Nano Energy 115 (2023): 108682. (IF: 5.06519.09, Q1).
3. More, Suraj, Bhavana Joshi, Ashwin Khadka, Edmund Samuel, Yong Il Kim, **Ali Aldalbahi**, Mohamed El-Newehy, Kishor Gurav, Hae-Seok Lee, and Sam S. Yoon. "Oriented attachment of carbon/cobalt-cobalt oxide nanotubes on manganese-doped carbon nanofibers for flexible symmetric supercapacitors." Applied Surface Science 615 (2023): 156386. (IF: 7.39, Q1).

4. Khadka, Ashwin, Byeong-Yeop Kim, Shrayas Pradhan, Chanwoo Park, Woojin Lim, **Ali Aldalbahi**, Govindasami Periyasami, Bhavana Joshi, and Sam S. Yoon. "Silver–nickel core–shell nanostructure on cellulose fibers as biodegradable wearable paper heater." *Cellulose* 30, no. 10 (2023): 6559-6569. (IF: 5.0656.123, Q1).
5. Schouten, Pien JC, Diana Soto-Aguilar, **Ali Aldalbahi**, Tansir Ahamad, Shaykha Alzahly, and Vincenzo Fogliano. "Design of sporopollenin-based functional ingredients for gastrointestinal tract targeted delivery." *Current Opinion in Food Science* 44 (2022): 100809. (IF: 9.8, Q1).
6. Aldalbahi, Ali, Zhen-Bo Wang, Tansir Ahamad, Saad M. Alshehri, and Peter X. Feng. "Two-Step Facile Preparation of 2D MoS₂/ZnO Nanocomposite-Junctions with Enhanced Photoelectric Performance." *International Journal of Photoenergy* 2021 (2021). . (IF: 2.5, Q3).
7. Kim, Taegun, Chanwoo Park, Edmund P. Samuel, Seongpil An, **Aldalbahi, Ali**, Faisal Alotaibi, Alexander L. Yarin, and Sam S. Yoon. "Supersonically sprayed washable, wearable, stretchable, hydrophobic, and antibacterial rGO/AgNW fabric for multifunctional sensors and supercapacitors." *ACS Applied Materials & Interfaces* 13, no. 8 (2021): 10013-10025. (IF: 10.38, Q1).
8. **Aldalbahi, Ali**, Edmund Samuel, Bander S. Alotaibi, Hany El-Hamshary, and Sam S. Yoon. "Reduced graphene oxide supersonically sprayed on wearable fabric and decorated with iron oxide for supercapacitor applications." *Journal of Materials Science & Technology* 82 (2021): 47-56. (IF: 10.3, Q1).
9. Periyasami, Govindasami, Ponmurugan Karuppiyah, Antony Stalin, Saradh Prasad, Mostafizur Rahaman, Abdul-Aziz Alrehaili, Naif Abdullah Al-Dhabi, and **Aldalbahi, Ali**. "Synthesis, absorption, emission and solvatochromic investigation of bioactive isatin tethered acridinedione conjugates." *Materials Today Communications* 26 (2021): 102109. (IF: 3.66, Q3).

- 10. Aldalbahi, Ali**, Mostafizur Rahaman, Abdulaziz Alrehaili, Badr M. Thamer, Mohamed H. El-Newehy, and Ayman El-Faham. "In situ preparation of composites based on trishydrazino-s-triazine (1, 4-/1, 3-) benzene dicarboxyaldehyde with reduced graphene oxide and their electrical conductivity performance." *Journal of Materials Research and Technology* 10 (2021): 1280-1290. (IF: 6.3, Q1).
11. Thamer, Badr M., Aldalbahi, Ali, Meera Moydeen A, Mostafizur Rahaman, and Mohamed H. El-Newehy. "Modified electrospun polymeric nanofibers and their nanocomposites as nano adsorbents for toxic dye removal from contaminated waters: A review." *Polymers* 13, no. 1 (2020): 20. (IF: 4.7, Q1).
12. X. Liu, S. Zhang, H. Xu, R. Wang, L. Dong, B. Tang, W. Fang, F. Hou, L. Zhong, Ali Aldalbahi, Nitrogen-Doped Carbon Quantum Dots from Polyethyleneimine for Optical Dual Mode Determination of Cu^{2+} and L-Cysteine and Its Logic Gate Operation Nitrogen-Doped Carbon Quantum Dots from Poly, *ACS Appl. Mater. Interfaces* (2020). (IF: 8.758, Q1).
13. M.K. Ahmed, M.E. El-Naggar, Al-Dalbahi, M.H. El-Newehy, A.A. Menazea, Methylene blue degradation under visible light of metallic nanoparticles scattered into graphene oxide using laser ablation technique in aqueous solutions, *J. Mol. Liq.* 315 (2020) 113794. (IF: 5.065, Q1).
14. C. Park, E. Samuel, B. Joshi, T. Kim, Al-Dalbahi, M. El-Newehy, W.Y. Yoon, S.S. Yoon, Supersonically sprayed $\text{Fe}_2\text{O}_3/\text{C}/\text{CNT}$ composites for highly stable Li-ion battery anodes, *Chem. Eng. J.* 395 (2020) 125018. (IF: 10.625, Q1)
15. Al-Dalbahi, R. Velázquez, A.F. Zhou, M. Rahaman, P.X. Feng, Bandgap-tuned 2D boron nitride/tungsten nitride nanocomposites for development of high-performance deep ultraviolet selective photodetectors, *Nanomaterials*. 10 (2020) 1–10. (IF: 4.324, Q1)
16. Al-Dalbahi, B. Alotaibi, A. El-Faham, Synthesis, Characterization of sym-2, 4, 6-trisubstituted-s-Triazine Derivatives and Their Effects on Flame Retardancy of Polypropylene Composites, *Processes*. 8 (2020) 581. (IF: 2.753, Q2)

17. E. Samuel, B. Joshi, Y. Il Kim, Ali Aldalbahi, M. Rahaman, S.S. Yoon, ZnO/MnOx Nanoflowers for High-Performance Supercapacitor Electrodes, ACS Sustain. Chem. Eng. 8 (2020) 3697–3708. (IF: 7.632, Q1).
18. Ali Aldalbahi, Mostafizur Rahaman and Mohammed Almoiqli, "Performance Enhancement of Modified 3D SWCNT/RVC Electrodes Using Microwave-Irradiated Graphene Oxide", NANOSCALE RESEARCH LETTERS, 2019, 14(1), (IF: 3.15, Q2)
19. Paul Duchesne, ZY Li, Christopher Deming, Victor Fung, Xiaojing Zhao, Jun Yuan, Tom Regier, Ali Aldalbahi, Zainab Almarhoon, Shaowei Chen, De-en Jiang, Nanfeng Zheng and Peng Zhang, "Golden single-atomic-site platinum electrocatalysts", NATURE MATERIALS, 2018, 17(11), 1033. (IF: 38.88, Q1)
20. Dan Zhu, Hao Pei, Guangbao Yao, Lihua Wang, Shao Su, Jie Chao, Lianhui Wang, Ali Aldalbahi, Shiping Song, Jiye Shi, JunHu, Chunhai Fan and Xiaolei Zuo, "A Surface-Confined Proton-Driven DNA Pump Using a Dynamic 3D DNA Scaffold", ADVANCED MATERIALS, 2016, 28(32), 6860. (IF: 25.80, Q1)
21. Ali Aldalbahi, EM Mkawi, K Ibrahim and MA Farrukh, "Effect of sulfurization time on the properties of copper zinc tin sulfide thin films grown by electrochemical deposition", SCIENTIFIC REPORTS, 2016, 6, (IF: 4.01, Q1)
22. Meihua Lin, Ping Song, Guobao Zhou, Xiaolei Zuo, Ali Aldalbahi, Xiaoding Lou, Jiye Shi and Chunhai Fan, "Electrochemical detection of nucleic acids, proteins, small molecules and cells using a DNA-nanostructure-based universal biosensing platform", NATURE PROTOCOLS, 2016, 11(7), 1244-1263. (IF: 11.33, Q1)
23. Huan Zhang, Honglu Zhang, Ali Aldalbahi, Xiaolei Zuo, Chunhai Fan and Xianqiang Mi, "Fluorescent biosensors enabled by graphene and graphene oxide", BIOSENSORS & BIOELECTRONICS, 2017, 89, 96-106. (IF: 9.51, Q1).
24. Saad Alshehri, Mu Naushad, Tansir Ahamad, Zeid Alothman and Ali Aldalbahi, "Synthesis, characterization of curcumin based ecofriendly antimicrobial bio-adsorbent for the removal of phenol from aqueous medium", CHEMICAL ENGINEERING JOURNAL, 2014, 254, 181-189. (IF: 8.35, Q1).

25. Na Lu, Min Zhang, Lei Ding, Jing Zheng, Caixia Zeng, Yanli Wen, **Gang Liu, Ali-Dalbahi**, Jiye Shi, Shiping Song, Xiaolei Zuo and Lihua Wang, "Yolk-shell nanostructured Fe₃O₄@C magnetic nanoparticles with enhanced peroxidase-like activity for label-free colorimetric detection of H₂O₂ and glucose", *Nanoscale*, 2017, 9(13), 4508-4515. (IF: 6.97, Q1).
26. Subhadip Mondal, Lalatendu Nayak, Mostafizur Rahaman, **Ali Aldalbahi**, Tapan Chaki, Dipak Khastgir and Narayan Das, "An effective strategy to enhance mechanical, electrical, and electromagnetic shielding effectiveness of chlorinated polyethylene-carbon nanofiber nanocomposites", *composite part B-engineering*, 2017, 109, 155-169. (IF: 6.86, Q1).
27. Huan Zhang, Yunsheng Wang, Daiwei Zhao, Dongdong Zeng, Jiaoyun Xia, **Ali Aldalbahi**, Chenguang Wang, Lili San, Chunhai Fan, Xiaolei Zuo and Xianqiang Mi, "Universal Fluorescence Biosensor Platform Based on Graphene Quantum Dots and Pyrene-Functionalized Molecular Beacons for Detection of MicroRNAs", *acs applied materials & interfaces*, 2015, 7(30), 16152-16156. (IF: 8.45, Q1)
28. Chongya Hu, Jianlei Shen, Juan Yan, Jian Zhong, Weiwei Qin, Rui Liu, **Ali-Dalbahi**, Xiaolei Zuo, Shiping Song, Chunhai Fan and Dannong He, "Highly narrow nanogap-containing Au@Au core-shell SERS nanoparticles: size-dependent Raman enhancement and applications in cancer cell imaging", *Nanoscale*, 2016, 8(4), 2090-2096. (IF: 6.97, Q1).
29. **Ali-Dalbahi**, Eric Li, Manuel Rivera, Rafael Velazquez, Tariq Altalhi, Xiaoyan Peng and Peter Feng, "A new approach for fabrications of SiC-based photodetectors", *scientific reports*, 6, (IF: 4.01, Q1)
30. Badr Thamer, **Ali-Dalbahi**, Meera Moydeen, Hany El-Hamshary, Abdullah El-Enizi and Mohamed El-Newehy, "Effective adsorption of Coomassie brilliant blue dye using poly (phenylene diamine) grafted electrospun carbon nanofibers as a novel adsorbent", *materials chemistry and physics*, 2019, 234, 133-145. (IF: 4.1, Q2)

31. Javed Alam, Mansour Alhoshan, Arun Shukla, **Ali Aldalbahi** and Ali Fekri, "k-Carrageenan - A versatile biopolymer for the preparation of a hydrophilic PVDF composite membrane", EUROPEAN POLYMER JOURNAL, 2019, 120, (IF: 3.62, Q1)
32. Na Lu, Yanli Wen, Gang Liu, Lei Ding, Caixia Zeng, **Ali Aldalbahi**, Naziruddin Khan, Govindasami Periyasami, Mostafizur Rahaman, Abdulaziz Alrohaili, Jiye Shi, Shiping Song, Lihua Wang and Min Zhang, "Multifunctional Yolk-Shell Nanostructure as a Superquencher for Fluorescent Analysis of Potassium Ion Using Guanine-Rich Oligonucleotides", ACS APPLIED MATERIALS & INTERFACES, 2017, 9(36), 30406-30413. (IF: 8.45, Q1).
33. E. Samuel, **Ali Aldalbahi**, M. El-Newehy, H. El-Hamshary, S.S. Yoon, Nickel ferrite beehive-like nanosheets for binder-free and high-energy-storage supercapacitor electrodes, J. Alloys Compd. 852 (2021) 156929. (IF: 4.650, Q1)
34. **Ali Aldalbahi**, Eric Li, Manuel Rivera, Rafael Velazquez, Tariq Altalhi, Xiaoyan Peng and Peter Feng, "A new approach for fabrications of SiC based photodetectors", SCIENTIFIC REPORTS, 6, (IF: 4.01, Q1)
35. **Ali Aldalbahi**, Peter Feng, Norah Alhokbany, Tansir Ahamad and Saad Alshehri, "Synthesis, characterization, and CH₄-sensing properties of conducting and magnetic biopolymer nano-composites", JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, 2016, 4(3), 2841-2847. (IF:., Q1)
36. **Ali Aldalbahi**, Andrew Zhou and Peter Feng, "Variations in Crystalline Structures and Electrical Properties of Single Crystalline Boron Nitride Nanosheets", SCIENTIFIC REPORTS, 2015, 5, (IF: 4.01, Q1)
37. Chenguang Wang, Huan Zhang, Dongdong Zeng, Wenliang Sun, Honglu Zhang, **Ali Aldalbahi**, Yunsheng Wang, Lili San, Chunhai Fan, Xiaolei Zuo and Xianqiang Mi, "Elaborately designed diblock nanoprobe for simultaneous multicolor detection of microRNAs", NANOSCALE, 2015, 7(38), 15822-15829.

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