

From 2010 - Until 30 September 2020

Total Published Papers in 2020 is: 32

1. B.M. Thamer, **Ali Aldalbahi**, M. Moydeen A, A.M. Al-Enizi, H. El-Hamshary, M.H. El-Newehy, Synthesis of aminated electrospun carbon nanofibers and their application in removal of cationic dye, *Mater. Res. Bull.* 132 (2020) 111003. (IF: 4.019, Q1)
2. B. Huang, E. Aslan, Z. Jiang, E. Daskalakis, M. Jiao, **Ali Aldalbahi**, C. Vyas, P. Bártolo, engineered dual-scale poly (ϵ -caprolactone) scaffolds using 3D printing and rotational electrospinning for bone tissue regeneration, *Addit. Manuf.* 36 (2020) 101452. (IF: 7.002, Q1)
3. M.K. Ahmed, M.E. El-Naggar, **Ali Aldalbahi**, 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)
4. E. Samuel, B. Joshi, C. Park, **Ali Aldalbahi**, M. Rahaman, S.S. Yoon, Supersonically sprayed rGO / ZIF8 on nickel nanocone substrate for highly stable supercapacitor electrodes, *Electrochim. Acta.* 362 (2020) 137154. (IF: 6.215, Q1).
5. 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.* XXXX (2020) XXX–XXX. (IF: 8.758, Q1)
6. O. Adeyeye, **Ali Aldalbahi**, J. Raza, Z. Omar, M. Rahaman, M. Rahimi-Gorji, N.M. Hoang, Nonlinear solution of the reaction–diffusion equation using a two-step third–fourth-derivative block method, *Int. J. Nonlinear Sci. Numer. Simul.* 1 (2020) xxxx. (IF: 0.960, Q2)
7. **Ali Aldalbahi**, M. Rahaman, M. Almoiqli, A.Y. Meriey, G. Periyasami, Efficiency Improvement of a Capacitive Deionization (CDI) System by Modifying 3D SWCNT/RVC Electrodes Using Microwave-Irradiated Graphene Oxide (mwGO) for Effective Desalination, *J. Nanomater.* 2020 (2020) 1–14. (IF: 4.034, Q2)
8. A. ur R. Khan, K. Huang, Z. Jinzhong, T. Zhu, Y. Morsi, **Ali Aldalbahi**, M. El-Newehy, X. Yan, X. Mo, PLCL/Silk fibroin based antibacterial nano wound dressing encapsulating oregano essential oil: Fabrication, characterization and biological evaluation, *Colloids Surfaces B Biointerfaces.* 196 (2020) 111352. (IF: 4.389, Q1)

9. 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)
10. O. Adeyeye, **Ali Aldalbahi**, Z. Omar, J. Raza, M. Rahaman, A. Issakhov, M. Rahimi-Gorji, S. Nadeem, Investigation of a hyperbolic annular fin with temperature dependent thermal conductivity by two step third derivative block method (TSTDBM), *Microsyst. Technol.* 0 (2020). (IF: 1.737, Q1)
11. C. Park, E. Samuel, B. Joshi, T. Kim, **Ali Aldalbahi**, M. El-Newehy, W.Y. Yoon, S.S. Yoon, Supersonically sprayed Fe₂O₃/C/CNT composites for highly stable Li-ion battery anodes, *Chem. Eng. J.* 395 (2020) 125018. (IF: 10.625, Q1)
12. Y. Hao, J. Li, Q. Li, L. Zhang, J. Shi, X. Zhang, **Ali Aldalbahi**, L. Wang, C. Fan, F. Wang, Programmable Live-Cell CRISPR Imaging with Toehold-Switch-Mediated Strand Displacement, *Angew. Chemie - Int. Ed.* (2020). (IF: 12.959, Q1)
13. M. Benaissa, A.M. Alhanash, M. Eissa, **Ali Aldalbahi**, S. Alzahly, M. Rahaman, G. Periyasami, M.S. Hamdy, The effect of mesoporous support on the catalytic performance of Pd nanoparticles in the hydrogenation of cyclopentene, *J. Porous Mater.* 27 (2020) 1735–1743. (IF: 2.183, Q2)
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15. X. Dai, Q. Li, **Ali Aldalbahi**, L. Wang, C. Fan, X. Liu, DNA-Based Fabrication for Nanoelectronics, *Nano Lett.* 20 (2020) 5604–5615. (IF: 11.238, Q1)
16. M. Rahaman, I.A. Al Ghufais, G. Periyasami, Ali Aldalbahi, Recycling and Reusing Polyethylene Waste as Antistatic and Electromagnetic Interference Shielding Materials, *Int. J. Polym. Sci.* 2020 (2020). (IF: 1.664, Q3)
17. X. Xie, Y. Chen, X. Wang, X. Xu, Y. Shen, A. ur R. Khan, **Ali Aldalbahi**, A.E. Fetz, G.L. Bowlin, M. El-Newehy, X. Mo, Electrospinning nanofiber scaffolds for soft and hard tissue regeneration, *J. Mater. Sci. Technol.* 59 (2020) 243–261. (IF: 6.155, Q1)
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20. **Ali Aldalbahi**, 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)
21. E. Samuel, C. Park, T. Kim, B. Joshi, **Ali Aldalbahi**, H.S. Alanzi, M.T. Swihart, W.Y. Yoon, S.S. Yoon, Dodecahedral ZnO/C framework on reduced graphene oxide sheets for high-performance Li-ion battery anodes, *J. Alloys Compd.* 834 (2020) 155208. (IF: 4.650, Q1)
22. A. Khan, M. Shkir, E.H. Ibrahim, M. Kilany, S. AlFaify, M.A. Sayed, A.M. El-Toni, **Ali Aldalbahi**, H. Rahaman, M.M. Siddiquei, Effect of Bi contents on key physical properties of NiO NPs synthesized by flash combustion process and their cytotoxicity studies for biomedical applications, *Ceram. Int.* 46 (2020) 19691–19700. (IF: 3.83, Q1)
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24. M.W. Kim, B. Joshi, E. Samuel, H. Seok, Ali Aldalbahi, M. Almoqli, M.T. Swihart, S.S. Yoon, Electrospayed MnO₂ on ZnO nanorods with atomic layer deposited TiO₂ layer for photoelectrocatalytic water splitting, *Appl. Catal. B Environ.* 271 (2020) 118928. (IF: 16.683, Q1)
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26. T.G. Kim, C.W. Park, Y. Il Kim, **Ali Aldalbahi**, M. Rahaman, S.S. Yoon, Supersonically sprayed carbon nanotubes and silver nanowires as efficient heat spreaders and cooling films, *J. Appl. Phys.* 127 (2020). (IF: 2.370, Q2)

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28. A.K. Shukla, J. Alam, M. Rahaman, A. Alrehaili, M. Alhoshan, **Ali Aldalbahi**, A Facile Approach for Elimination of Electroneutral/Anionic Organic Dyes from Water Using a Developed Carbon-Based Polymer Nanocomposite Membrane, *Water. Air. Soil Pollut.* 231 (2020). (IF: 1.9, Q2)
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31. **Ali Aldalbahi**, S. Alterary, R. Ali Abdullrahman Almoghim, M.A. Awad, N.S. Aldosari, S. Fahad Alghannam, A. Nasser Alabdan, S. Alharbi, B. Ali Mohammed Alateeq, A. Abdulrahman Al Mohsen, M.A. Alkathiri, R. Abdulrahman Alrashed, Greener Synthesis of Zinc Oxide Nanoparticles: Characterization and Multifaceted Applications, *Molecules.* 25 (2020) 1–14. (IF: 3.267, Q2)
32. A.A. Ansari, S. Khan, **Ali Aldalbahi**, A.K. Parchur, B. Kumar, A. Kumar, M. Raish, S.B. Rai, In-vitro cytotoxicity evaluation of surface design luminescent lanthanide core/shell nanocrystals, *Arab. J. Chem.* 13 (2020) 1259–1270. (IF: 4.762, Q2)

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34. Mohd Shkir, Mohd Khan, IM Ashraf, S AlFaify, Ahmed El-Toni, **Ali Aldalbahi**, Hamid Ghaithan and Aslam Khan, "Rapid microwave-assisted synthesis of Ag-doped PbS nanoparticles for optoelectronic applications", *CERAMICS INTERNATIONAL*, 2019, 45(17), 21975-21985. (IF: 3.45, Q1)

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36. 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)
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38. Mohamed Ibrahim, Amine Mezni, Mohammed Alsawat, Tushar Kumeria, Manash Das, Shaykha Alzahly, **Ali Aldalbahi**, Karolina Gornicka, Jacek Ryl, Mohammed Amin and Tariq Altalhi, "Enhanced hydrogen evolution reaction on highly stable titania-supported PdO and Eu₂O₃ nanocomposites in a strong alkaline solution", *INTERNATIONAL JOURNAL OF ENERGY RESEARCH*, 2019, 43(10), 5367-5383. (IF: 3.34, Q1)
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41. Mohd Shkir, Aslam Khan, Ahmed El-Toni, **Ali Aldalbahi** and Yahia, IS, "Structural, morphological, opto-nonlinear-limiting studies on Dy:PbI₂/FTO thin films derived facilely by spin coating technique for optoelectronic technology", *JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS*, 2019, 130, 189-196. (IF: 2.75, Q2)
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43. Aslam Khan, Mohd Shkir, MA Manthrammel, V Ganesh, IS Yahia, Mukhtar Ahmed, Ahmed El-Toni, **Ali Aldalbahi**, Hamid Ghaitan, S AlFaify, "Effect of Gd doping on structural, optical

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46. Anees Ansari, Aslam Khan, Joselito Labis, Manawwer Alam, Aslam Manthrammel, Maqsood Ahamed, Mohd Akhter, **Ali Aldalbahi**, and Hamid Ghaithan, "Mesoporous multi-silica layer-coated Y₂O₃:Eu core-shell nanoparticles: Synthesis, luminescent properties and cytotoxicity evaluation", MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, 2019, 96, 365-373. (IF: 4.95, Q1)
47. Aslam Khan, Tajdar Khan, Ahmed El-Toni, **Ali Aldalbahi**, Javed Alam and Tansir Ahmed, "In situ formation and immobilization of silver nanoparticles using thermo-responsive microgel particles and their cytotoxicity evaluation", MATERIALS LETTERS, 2019, 235, 197-201. (IF: 3.01, Q2)
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53. Mostafizur Rahaman, Ibelwaleed Hussein, **Ali Aldalbahi**, Anwar Pervez and Joao Soares, "Synthesis of Metallocene Catalyzed Ethylene 1,7-Octadiene Copolymer: Effect of Copolymerization on Polymer Properties", *MACROMOLECULAR RESEARCH*, 2018, 26(7), 665-665. (IF: 1.75, Q3)
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