

# Irum Shaheen

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

997  
citations

430874

18  
h-index

477307

29  
g-index

45  
all docs

45  
docs citations

45  
times ranked

549  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Phytosynthetic Ag doped ZnO nanoparticles: Semiconducting green remediators. <i>Open Chemistry</i> , 2018, 16, 556-570.  | 1.9  | 92        |
| 2  | Bioelectrochemical systems: Sustainable bio-energy powerhouses. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111576.  | 10.1 | 92        |
| 3  | Augmented photocatalytic, antibacterial and antifungal activity of prunosynthetic silver nanoparticles. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 127-137.   | 2.8  | 78        |
| 4  | Organic template-assisted green synthesis of $\text{CoMoO}_4$ nanomaterials for the investigation of energy storage properties. <i>RSC Advances</i> , 2020, 10, 8115-8129.   | 3.6  | 52        |
| 5  | Facile ZnO-based nanomaterial and its fabrication as a supercapacitor electrode: synthesis, characterization and electrochemical studies. <i>RSC Advances</i> , 2021, 11, 23374-23384.   | 3.6  | 50        |
| 6  | Green synthesis of $\text{ZnO}@\text{Co}_3\text{O}_4$ nanocomposite using facile foliar fuel and investigation of its electrochemical behaviour for supercapacitors. <i>New Journal of Chemistry</i> , 2020, 44, 18281-18292.                  | 2.8  | 46        |
| 7  | Biomimetic $[\text{MoO}_3@\text{ZnO}]$ semiconducting nanocomposites: Chemo-proportional fabrication, characterization and energy storage potential exploration. <i>Renewable Energy</i> , 2021, 167, 568-579.                                 | 8.9  | 39        |
| 8  | Functionalization of $\text{MoO}_3/\text{NiMoO}_4$ nanocomposite using organic template for energy storage application. <i>Journal of Energy Storage</i> , 2020, 29, 101309.   | 8.1  | 38        |
| 9  | Electro-catalyst $[\text{ZrO}_2/\text{ZnO}/\text{PdO}]$ -NPs green functionalization: Fabrication, characterization and water splitting potential assessment. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 19347-19362.         | 7.1  | 36        |
| 10 | Chromatographic identification of "green capping agents" extracted from <i>Nasturtium officinale</i> (Brassicaceae) leaves for the synthesis of $\text{MoO}_3$ nanoparticles. <i>Journal of Separation Science</i> , 2020, 43, 598-605.        | 2.5  | 31        |
| 11 | Analysis of dopant concentration effect on optical and morphological properties of PVD coated Cu-doped $\text{Ni}_3\text{S}_2$ thin films. <i>Optik</i> , 2019, 187, 152-163.  | 2.9  | 30        |
| 12 | Electron beam deposited $(\text{Cu}_2\text{S}@\text{CdS})/\text{GO}$ thin film as active electrode for supercapacitor and enhanced photocatalyst for water remediation. <i>International Journal of Energy Research</i> , 2022, 46, 9371-9388. | 4.5  | 30        |
| 13 | Biomimetic detoxifier <i>Prunus cerasifera</i> Ehrh. silver nanoparticles: innate green bullets for morbidic pathogens and persistent pollutants. <i>Environmental Science and Pollution Research</i> , 2020, 27, 9669-9685.                   | 5.3  | 29        |
| 14 | Effect of NiO on organic framework functionalized ZnO nanoparticles for energy storage application. <i>International Journal of Energy Research</i> , 2020, 44, 5259-5271.   | 4.5  | 29        |
| 15 | Structural, optical and electrochemical studies of organo-templated wet synthesis of cubic shaped nickel oxide nanoparticles. <i>Optik</i> , 2020, 205, 164241.  | 2.9  | 26        |
| 16 | Sustainable synthesis of organic framework-derived ZnO nanoparticles for fabrication of supercapacitor electrode. <i>Environmental Technology (United Kingdom)</i> , 2022, 43, 605-616.  | 2.2  | 24        |
| 17 | Organic template-based ZnO embedded $\text{Mn}_3\text{O}_4$ nanoparticles: synthesis and evaluation of their electrochemical properties towards clean energy generation. <i>RSC Advances</i> , 2020, 10, 9854-9867.                            | 3.6  | 21        |
| 18 | Effects of bioactive compounds on the morphology and surface chemistry of $\text{MoO}_3/\text{ZnMoO}_4$ nanocomposite for supercapacitor. <i>Journal of Materials Science</i> , 2020, 55, 7743-7759.   | 3.7  | 21        |

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|----|--|-----|-----------|
| 19 | Recent developments in carbon nanotubes-based perovskite solar cells with boosted efficiency and stability. <i>Zeitschrift Fur Physikalische Chemie</i> , 2021, 235, 1539-1572.  | 2.8 | 18        |
| 20 | Semi-conducting Ni/Zn nano-hybrids <sup>TM</sup> driven efficient electro-catalytic performance: fabrication, characterization, and electrochemical features <sup>TM</sup> elucidation. <i>Green Chemistry Letters and Reviews</i> , 2021, 14, 286-301.                    | 4.7 | 18        |
| 21 | Glycerol-mediated synthesis of copper-doped zinc sulfide with ultrathin nanoflakes for flexible energy electrode materials. <i>Journal of Alloys and Compounds</i> , 2022, 919, 165701.  | 5.5 | 18        |
| 22 | Evaluation of electrochemical properties for water splitting by NiO nano-cubes synthesized using <i>Olea ferruginea</i> Royle. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 40, 100753.  | 2.7 | 16        |
| 23 | Phyto-inspired and scalable approach for the synthesis of PdO <sup>2</sup> Mn <sub>2</sub> O <sub>3</sub> : a nano-material for application in water splitting electro-catalysis. <i>RSC Advances</i> , 2020, 10, 29961-29974.   | 3.6 | 15        |
| 24 | In situ synthesis and deposition of un-doped and doped magnesium sulfide thin films by green technique. <i>Optik</i> , 2019, 182, 739-744.   | 2.9 | 12        |
| 25 | Modified sol gel synthesis of MoO <sub>3</sub> NPs using organic template: synthesis, characterization and electrochemical investigations. <i>Journal of Sol-Gel Science and Technology</i> , 2021, 97, 178-190.   | 2.4 | 12        |
| 26 | Functionalization of Mn <sub>2</sub> O <sub>3</sub> / PdO / ZnO electrocatalyst using organic template with accentuated electrochemical potential toward water splitting. <i>International Journal of Energy Research</i> , 2022, 46, 452-463.                             | 4.5 | 11        |
| 27 | Optical and morphological properties of environmentally benign Cu-Tin sulphide thin films grown by physical vapor deposition technique. <i>Materials Research Express</i> , 2019, 6, 036406.   | 1.6 | 10        |
| 28 | Biomimetic ZrO <sub>2</sub> @ PdO nanocomposites: fabrication, characterization, and water splitting potential exploration. <i>International Journal of Energy Research</i> , 2022, 46, 8516-8526.   | 4.5 | 10        |
| 29 | Electrochemical trapping of meta-stable NiO consolidated ZnO/PdO by biomimetic provenance for the employment of clean energy generation. <i>Materials Science in Semiconductor Processing</i> , 2022, 150, 106867.   | 4.0 | 10        |
| 30 | Green synthesis of doped Co <sub>3</sub> O <sub>4</sub> nanocatalysts using organic template for fast azo dye degradation from aqueous environment. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 2898-2910.   | 3.2 | 9         |
| 31 | Phyto-inspired Cu/Bi oxide-based nanocomposites: synthesis, characterization, and energy relevant investigation. <i>RSC Advances</i> , 2021, 11, 30510-30519.  | 3.6 | 9         |
| 32 | Ecospheric Decontamination Attained via Green Nanobiotechnological NiO-Based Nanocatalyst Derived from Nature <sup>TM</sup> s Biofactories. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 8357-8367.   | 6.7 | 7         |
| 33 | Synthesis of binary metal oxide-doped Co <sub>3</sub> O <sub>4</sub> nanoparticles by organic template and investigation of its structural, optical and electrochemical properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 10323-10333. | 2.2 | 6         |
| 34 | Synthesis and analysis of ZnO@CoMoO <sub>4</sub> incorporated organic compounds for efficient degradation of azo dye pollutants under dark ambient conditions. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5733.  | 3.5 | 6         |
| 35 | Adsorption and sugarcane-bagasse-derived activated carbon-based mitigation of 1-[2-(2-chloroethoxy)phenyl]sulfonyl-3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl) urea-contaminated soils. <i>Open Chemistry</i> , 2020, 18, 1433-1443.   | 1.9 | 6         |
| 36 | Sustainable hydrothermal synthesis of cobalt-nickel nanomaterial for supercapacitor using green stabilizing agents. <i>International Journal of Energy Research</i> , 2022, 46, 4599-4608.   | 4.5 | 6         |

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|----|--|-----|-----------|
| 37 | Synthesis and physiognomic study of copper sulfide doped cobalt sulfide. Materials Research Express, 2019, 6, 046408.  | 1.6 | 5         |
| 38 | Evaluating the fate of agrochemical through adsorption and desorption studies of chlorfluazuron in selected agricultural soils. Journal of King Saud University - Science, 2019, 31, 612-617.              | 3.5 | 5         |
| 39 | <p>Bio Framework-Derived Facile MoO <sub>3</sub> -NiO-PdO-Pd Nanomaterial for Detoxification of Organic Pollutants</p>. International Journal of Nanomedicine, 2020, Volume 15, 5591-5602.                 | 6.7 | 5         |
| 40 | Facile synthesis of ZnO@CoMoO <sub>4</sub> nanocomposite using bio-organic fuel for energy storage application. Journal of Materials Science: Materials in Electronics, 2021, 32, 8460-8474.               | 2.2 | 5         |
| 41 | Preparation of Organo-Stabilized Mn <sub>3</sub> O <sub>4</sub> Nanostructures as an Electro-Catalyst for Clean Energy Generation. Journal of Electronic Materials, 2021, 50, 5150-5160.                   | 2.2 | 5         |
| 42 | Phyto-mediated semiconducting n-type electrode nanomaterial: structural, compositional, and supercapacitor investigations. Ionics, 2021, 27, 833-843.  | 2.4 | 4         |
| 43 | Evaluation of electrochemical properties of organic template assisted PdO incorporated NiO for H <sub>2</sub> /O <sub>2</sub> evolution. Microchemical Journal, 2020, 158, 105282.                         | 4.5 | 2         |
| 44 | Identification and quantification of phyto-constituents of wild Moraceae-Ficus palmata Forssk and its implication as synthesizing fuel for biomimetic nanomaterials. Chemical Papers, 2021, 75, 2181-2190. | 2.2 | 2         |
| 45 | Synthesis of facile ZnO : NiO@Pd@Pd nanomaterial by organic fuel: Environmentally benign electrode material for energy storage. International Journal of Energy Research, 2021, 45, 16284-16293.           | 4.5 | 1         |