

Pervaiz Ahmad

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

1,526
citations

331538

21
h-index

377752

34
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91
all docs

91
docs citations

91
times ranked

1505
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Investigation of the Biological Applications of Biosynthesized Nickel Oxide Nanoparticles Mediated by <i>Buxus wallichiana</i> Extract. <i>Crystals</i> , 2022, 12, 146. | 1.0 | 7 |
| 2 | Characterization of various acrylate based artificial teeth for denture fabrication. <i>Journal of Materials Science: Materials in Medicine</i> , 2022, 33, 17. | 1.7 | 9 |
| 3 | Tuning the optical properties through bandgap engineering in Si-doped YAuPb: ab initio study. <i>Journal of Computational Electronics</i> , 2022, 21, 119-127. | 1.3 | 5 |
| 4 | Biogenic Synthesis of Ag Nanoparticles of 18.27 nm by <i>Zanthoxylum armatum</i> and Determination of Biological Potentials. <i>Molecules</i> , 2022, 27, 1166. | 1.7 | 3 |
| 5 | Cytotoxic and photocatalytic studies of hexagonal boron nitride nanotubes: a potential candidate for wastewater and air treatment. <i>RSC Advances</i> , 2022, 12, 6592-6600. | 1.7 | 15 |
| 6 | Biogenic Synthesis of AgNPs Using Aqueous Bark Extract of <i>Aesculus indica</i> for Antioxidant and Antimicrobial Applications. <i>Crystals</i> , 2022, 12, 252. | 1.0 | 6 |
| 7 | The Exchange-Correlation Effects on the Electronic Bands of Hybrid Armchair Single-Walled Carbon Boron Nitride Nanostructure. <i>Crystals</i> , 2022, 12, 394. | 1.0 | 17 |
| 8 | Structural and In Situ X-ray Diffraction Study of Hydrogenation of $C_xMg_{1-x}Ni_2$ ($0 \leq x \leq 1$). <i>Crystals</i> , 2022, 12, 47. | 1.0 | 0 |
| 9 | Synthesis of cobalt and sulphur doped titanium dioxide photocatalysts for environmental applications. <i>Journal of King Saud University - Science</i> , 2022, 34, 102028. | 1.6 | 19 |
| 10 | Bio-Synthesized Tin Oxide Nanoparticles: Structural, Optical, and Biological Studies. <i>Crystals</i> , 2022, 12, 614. | 1.0 | 7 |
| 11 | High and temperature-insensitive piezoelectric performance in the lead-free Sm-doped $BiFeO_3/BaTiO_3$ ceramics with high Curie temperature. <i>Ceramics International</i> , 2022, 48, 26608-26617. | 2.3 | 11 |
| 12 | Computational Studies of the Excitonic and Optical Properties of Armchair SWCNT and SWBNNT for Optoelectronics Applications. <i>Crystals</i> , 2022, 12, 870. | 1.0 | 16 |
| 13 | Effect of Cu Doping on ZnO Nanoparticles as a Photocatalyst for the Removal of Organic Wastewater. <i>Bioinorganic Chemistry and Applications</i> , 2022, 2022, 1-12. | 1.8 | 28 |
| 14 | Remediation of Chromium (VI) and Rhodamine 6G via Mixed Phase Nickel-Zinc Nanocomposite: Synthesis and Characterization. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 1565-1575. | 1.9 | 8 |
| 15 | Structural, Optical, Electrical, and Photocatalytic Properties of Nickel Cobaltite ($NiCo_2O_4$) Nanocomposite Fabricated by a Facile Microplasma Electrochemical Process. <i>Journal of Electronic Materials</i> , 2021, 50, 629-639. | 1.0 | 4 |
| 16 | Single-step synthesis of magnesium-iron borates composite; an efficient electrocatalyst for dopamine detection. <i>Microchemical Journal</i> , 2021, 160, 105679. | 2.3 | 3 |
| 17 | Facile Synthesis of High-Quality Nano-Size 10B-Enriched Fibers of Hexagonal Boron Nitride. <i>Crystals</i> , 2021, 11, 222. | 1.0 | 3 |
| 18 | Structural, Optical, and Antibacterial Efficacy of Pure and Zinc-Doped Copper Oxide Against Pathogenic Bacteria. <i>Nanomaterials</i> , 2021, 11, 451. | 1.9 | 46 |

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|----|--|-----|-----------|
| 19 | Unmodified Titanium Dioxide Nanoparticles as a Potential Contrast Agent in Photon Emission Computed Tomography. <i>Crystals</i> , 2021, 11, 171. | 1.0 | 18 |
| 20 | Defect-mediated photoluminescence enhancement in ZnO/ITO via MeV Cu ⁺⁺ ion irradiation. <i>Applied Radiation and Isotopes</i> , 2021, 169, 109461. | 0.7 | 1 |
| 21 | Chemical Analysis of Thermoluminescent Colorless Topaz Crystal Using Laser-Induced Breakdown Spectroscopy. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 367. | 0.8 | 4 |
| 22 | Antibacterial, antioxidant and physicochemical investigations of tin dioxide nanoparticles synthesized via microemulsion method. <i>Materials Research Express</i> , 2021, 8, 035013. | 0.8 | 29 |
| 23 | A practical method for incorporation of Fe (III) in Titania matrix for photocatalytic applications. <i>Materials Research Express</i> , 2021, 8, 045006. | 0.8 | 14 |
| 24 | Anomaly Classification for Earthquake Prediction in Radon Time Series Data Using Stacking and Automatic Anomaly Indication Function. <i>Pure and Applied Geophysics</i> , 2021, 178, 1593. | 0.8 | 8 |
| 25 | Synergistic effects of Cu-doped ZnO nanoantibiotic against Gram-positive bacterial strains. <i>PLoS ONE</i> , 2021, 16, e0251082. | 1.1 | 51 |
| 26 | Coherent control of magneto-optical Faraday rotation at terahertz frequencies in graphene-based metasurfaces via electromagnetically induced transparency. <i>Physica Scripta</i> , 2021, 96, 095101. | 1.2 | 1 |
| 27 | Photocatalytic and Antibacterial Potency of Titanium Dioxide Nanoparticles: A Cost-Effective and Environmentally Friendly Media for Treatment of Air and Wastewater. <i>Catalysts</i> , 2021, 11, 709. | 1.6 | 20 |
| 28 | Surfactant-assisted synthesis of NiCo ₂ O ₄ /NiO nanocomposite by facile atmospheric pressure microplasma electrochemical process with photocatalytic applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 17865-17875. | 1.1 | 3 |
| 29 | Enhanced Optical and Antibacterial Activity of Hydrothermally Synthesized Cobalt-Doped Zinc Oxide Cylindrical Microcrystals. <i>Materials</i> , 2021, 14, 3223. | 1.3 | 35 |
| 30 | Synthesis of Thermally Stable h-BN-CNT Hetero-Structures via Microwave Heating of Ethylene under Nickel, Iron, and Silver Catalysts. <i>Crystals</i> , 2021, 11, 1097. | 1.0 | 16 |
| 31 | Detection and Quantification of Precious Elements in Astrophyllite Mineral by Optical Spectroscopy. <i>Materials</i> , 2021, 14, 6277. | 1.3 | 4 |
| 32 | Phytogenic Synthesis and Characterization of NiO-ZnO Nanocomposite for the Photodegradation of Brilliant Green and 4-Nitrophenol. <i>Journal of Chemistry</i> , 2021, 2021, 1-10. | 0.9 | 18 |
| 33 | Effect of Magnesium Doping on Voltage Decay of Nickel-Rich Cathode Materials. <i>ChemistrySelect</i> , 2021, 6, 13301-13308. | 0.7 | 5 |
| 34 | Enhanced Photocatalytic Activity of Ficus elastica Mediated Zinc Oxide-Zirconium Dioxide Nanocatalyst at Elevated Calcination Temperature: Physicochemical Study. <i>Catalysts</i> , 2021, 11, 1481. | 1.6 | 6 |
| 35 | Experimental investigation on drag reduction of flowing crop suspensions of the pulp fibers in circular pipe heat exchanger. <i>Particulate Science and Technology</i> , 2020, 38, 443-453. | 1.1 | 4 |
| 36 | Prosthodontics dental materials: From conventional to unconventional. <i>Materials Science and Engineering C</i> , 2020, 106, 110167. | 3.8 | 51 |

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|----|--|-----|-----------|
| 37 | The effects of 5â€¢MeV carbon ion irradiation on micro-fine grain graphite. <i>Radiation Physics and Chemistry</i> , 2020, 166, 108512. | 1.4 | 7 |
| 38 | Laser induced breakdown spectroscopy methods and applications: A comprehensive review. <i>Radiation Physics and Chemistry</i> , 2020, 170, 108666. | 1.4 | 65 |
| 39 | Control over spectral hole burning via spontaneously generated coherence and Kerr non-linearity. <i>Optik</i> , 2020, 224, 165558. | 1.4 | 3 |
| 40 | Dielectric behaviors and electrical properties of Gd-doped Aurivillius KBi4Ti4O15 ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 14674-14680. | 1.1 | 2 |
| 41 | Dual role of Magnesium as a catalyst and precursor with enriched boron in the synthesis of Magnesium diboride nanoparticles. <i>Ceramics International</i> , 2020, 46, 26809-26812. | 2.3 | 4 |
| 42 | Copper oxide nanosheets prepared by facile microplasma electrochemical technique with photocatalytic and bactericidal activities. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 16649-16660. | 1.1 | 7 |
| 43 | Compositional Analysis of Chalcopyrite Using Calibration-Free Laser-Induced Breakdown Spectroscopy. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6848. | 1.3 | 6 |
| 44 | Dielectric relaxation and electrical properties of Na0.5Bi4La0.5Ti4O15 electroceramics. <i>Journal of Electroceramics</i> , 2020, 44, 147-153. | 0.8 | 1 |
| 45 | Green synthesis and characterization of tin dioxide nanoparticles for photocatalytic and antimicrobial studies. <i>Materials Research Express</i> , 2020, 7, 025012. | 0.8 | 53 |
| 46 | Microplasma-assisted synthesis of CuO nanostructures for catalytic degradation of organic dyes under solar irradiation. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 1123-1132. | 1.2 | 4 |
| 47 | Synthesis of enriched boron nitride nanocrystals: A potential element for biomedical applications. <i>Applied Radiation and Isotopes</i> , 2020, 166, 109404. | 0.7 | 5 |
| 48 | Control of the Faraday rotation via electromagnetically induced transparency medium and graphene metasurfaces. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 105401. | 1.0 | 3 |
| 49 | Fabrication of hexagonal boron nitride quantum dots via a facile bottom-up technique. <i>Ceramics International</i> , 2019, 45, 22765-22768. | 2.3 | 24 |
| 50 | Extraction of valuable chemicals from sustainable rice husk waste using ultrasonic assisted ionic liquids technology. <i>Journal of Cleaner Production</i> , 2019, 220, 620-629. | 4.6 | 47 |
| 51 | Dielectric relaxation and electrical properties of Bi2.5Nd0.5Nb1.5Fe0.5O9 ceramics. <i>Materials Chemistry and Physics</i> , 2019, 226, 100-105. | 2.0 | 8 |
| 52 | COSMO-RS predictions, hydrogen bond basicity values and experimental evaluation of amino acid-based ionic liquids for lignocellulosic biomass dissolution. <i>Journal of Molecular Liquids</i> , 2019, 273, 215-221. | 2.3 | 30 |
| 53 | Revalorization of CO2 for methanol production via ZnO promoted carbon nanofibers based Cu-ZrO2 catalytic hydrogenation. <i>Journal of Energy Chemistry</i> , 2019, 39, 68-76. | 7.1 | 49 |
| 54 | Toward improved heat dissipation of the turbulent regime over backward-facing step for the AL2O3-water nanofluids: An experimental approach. <i>Thermal Science</i> , 2019, 23, 1779-1789. | 0.5 | 2 |

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|----|--|-----|-----------|
| 55 | Ionic liquid as a potential solvent for preparation of collagen-alginate-hydroxyapatite beads as bone filler. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018, 29, 1168-1184. | 1.9 | 26 |
| 56 | The effect of particle size on the dispersion and wear protection ability of MoS ₂ particles in polyalphaolefin and trimethylolpropane ester. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2018, 232, 987-998. | 1.0 | 7 |
| 57 | Magnesium diboride (MgB ₂): An effective and novel precursor for the synthesis of vertically aligned BNNTs. <i>Materials Research Bulletin</i> , 2018, 98, 235-239. | 2.7 | 9 |
| 58 | Effect of various refining processes for Kenaf Bast non-wood pulp fibers suspensions on heat transfer coefficient in circular pipe heat exchanger. <i>Heat and Mass Transfer</i> , 2018, 54, 875-882. | 1.2 | 2 |
| 59 | Fabrication, Characterization and Potential Applications of Boron Nitride Nanofibers. , 2018, , 105-129. | | 0 |
| 60 | Decomposition-adsorption-deposition: An effective and novel technique for synthesis of hexagonal boron nitride microsheets. <i>Materials Science in Semiconductor Processing</i> , 2018, 88, 161-166. | 1.9 | 1 |
| 61 | Investigation of ionic liquids as a pretreatment solvent for extraction of collagen biopolymer from waste fish scales using COSMO-RS and experiment. <i>Journal of Molecular Liquids</i> , 2017, 232, 258-264. | 2.3 | 54 |
| 62 | Synthesis of multilayered hexagonal boron nitride microcrystals as a potential hydrogen storage element. <i>Ceramics International</i> , 2017, 43, 7358-7361. | 2.3 | 11 |
| 63 | Controlled synthesis of anisotropic hexagonal boron nitride nano-web. <i>Materials Science in Semiconductor Processing</i> , 2017, 66, 44-49. | 1.9 | 2 |
| 64 | Dielectric relaxation and electrical properties of Sm _{0.5} Bi _{4.5} Ti ₃ FeO ₁₅ ceramics. <i>Journal of Alloys and Compounds</i> , 2017, 709, 686-691. | 2.8 | 14 |
| 65 | Effect of Structural Variations on the Thermophysical Properties of Protic Ionic Liquids: Insights from Experimental and Computational Studies. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 2993-3003. | 1.0 | 21 |
| 66 | An application of ionic liquid for preparation of homogeneous collagen and alginate hydrogels for skin dressing. <i>Journal of Molecular Liquids</i> , 2017, 243, 720-725. | 2.3 | 43 |
| 67 | Reply to comments on "CuYb _{0.5} Fe _{1.5} O ₄ nanoferrite adsorbent structural, morphological and functionalization characteristics for multiple pollutant removal by response surface methodology". <i>Journal of Molecular Liquids</i> , 2017, 247, 34. | 2.3 | 0 |
| 68 | Kinetics and thermodynamic parameters of ionic liquid pretreated rubber wood biomass. <i>Journal of Molecular Liquids</i> , 2016, 223, 754-762. | 2.3 | 73 |
| 69 | Synthesis of hexagonal boron nitride fibers within two hour annealing at 500 °C and two hour growth duration at 1000 °C. <i>Ceramics International</i> , 2016, 42, 14661-14666. | 2.3 | 12 |
| 70 | CuYb _{0.5} Fe _{1.5} O ₄ nanoferrite adsorbent structural, morphological and functionalization characteristics for multiple pollutant removal by response surface methodology. <i>Journal of Molecular Liquids</i> , 2016, 224, 1256-1265. | 2.3 | 6 |
| 71 | Synthesis of Highly Crystalline Multilayered Boron Nitride Microflakes. <i>Scientific Reports</i> , 2016, 6, 21403. | 1.6 | 13 |
| 72 | Catalytic growth of vertically aligned neutron sensitive ¹⁰ Boron nitride nanotubes. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1. | 0.8 | 14 |

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|----|--|-----|-----------|
| 73 | Extraction of biocompatible hydroxyapatite from fish scales using novel approach of ionic liquid pretreatment. Separation and Purification Technology, 2016, 161, 129-135. | 3.9 | 87 |
| 74 | Impact of Ball-Milling Pretreatment on Pyrolysis Behavior and Kinetics of Crystalline Cellulose. Waste and Biomass Valorization, 2016, 7, 571-581. | 1.8 | 58 |
| 75 | Boron nitride nanowires synthesis via a simple chemical vapor deposition at 1200 Å°C. AIP Conference Proceedings, 2015, , . | 0.3 | 3 |
| 76 | Synthesis of vertically aligned flower-like morphologies of BNNTs with the help of nucleation sites in Coâ€Ni alloy. Materials Science in Semiconductor Processing, 2015, 38, 113-118. | 1.9 | 11 |
| 77 | Synthesis of highly crystalline multilayers structures of 10BNNTs as a potential neutron sensing element. Ceramics International, 2015, 41, 4544-4548. | 2.3 | 18 |
| 78 | Synthesis of Boron Nitride Microtubes and Formation of Boron Nitride Nanosheets. Materials and Manufacturing Processes, 2015, 30, 184-188. | 2.7 | 13 |
| 79 | Influence of growth duration on size and morphology of boron nitride nanotubes grown via chemical vapor deposition technique. Journal of Physics and Chemistry of Solids, 2015, 85, 226-232. | 1.9 | 16 |
| 80 | Effective Synthesis of Vertically Aligned Boron Nitride Nanotubes via a Simple CCVD. Materials and Manufacturing Processes, 2015, 30, 706-710. | 2.7 | 19 |
| 81 | Synthesis of boron nitride nanotubes via chemical vapour deposition: a comprehensive review. RSC Advances, 2015, 5, 35116-35137. | 1.7 | 54 |
| 82 | Low temperature synthesis of high quality BNNTs via argon supported thermal CVD. Ceramics International, 2015, 41, 15222-15226. | 2.3 | 18 |
| 83 | The effect of reaction atmosphere and growth duration on the size and morphology of boron nitride nanotubes. New Journal of Chemistry, 2015, 39, 7912-7915. | 1.4 | 14 |
| 84 | Synthesis and characterization of boron nitride microtubes. Materials Express, 2015, 5, 249-254. | 0.2 | 12 |
| 85 | Synthesis of boron nitride nanotubes by Argon supported Thermal Chemical Vapor Deposition. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 67, 33-37. | 1.3 | 36 |
| 86 | A simple technique to synthesize pure and highly crystalline boron nitride nanowires. Ceramics International, 2014, 40, 14727-14732. | 2.3 | 23 |
| 87 | A review of nanostructured based radiation sensors for neutron. , 2012, , . | | 7 |
| 88 | Synthesis of Boron-Doped Zinc Oxide Nanosheets by Using Phyllanthus Emblica Leaf Extract: A Sustainable Environmental Applications. Frontiers in Chemistry, 0, 10, . | 1.8 | 11 |