

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
g-index

91
all docs

91
docs citations

91
times ranked

1505
citing authors

#	ARTICLE	IF	CITATIONS
1	Extraction of biocompatible hydroxyapatite from fish scales using novel approach of ionic liquid pretreatment. <i>Separation and Purification Technology</i> , 2016, 161, 129-135.	3.9	87
2	Kinetics and thermodynamic parameters of ionic liquid pretreated rubber wood biomass. <i>Journal of Molecular Liquids</i> , 2016, 223, 754-762.	2.3	73
3	Laser induced breakdown spectroscopy methods and applications: A comprehensive review. <i>Radiation Physics and Chemistry</i> , 2020, 170, 108666.	1.4	65
4	Impact of Ball-Milling Pretreatment on Pyrolysis Behavior and Kinetics of Crystalline Cellulose. <i>Waste and Biomass Valorization</i> , 2016, 7, 571-581.	1.8	58
5	Synthesis of boron nitride nanotubes via chemical vapour deposition: a comprehensive review. <i>RSC Advances</i> , 2015, 5, 35116-35137.	1.7	54
6	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
7	Green synthesis and characterization of tin dioxide nanoparticles for photocatalytic and antimicrobial studies. <i>Materials Research Express</i> , 2020, 7, 025012.	0.8	53
8	Prosthodontics dental materials: From conventional to unconventional. <i>Materials Science and Engineering C</i> , 2020, 106, 110167.	3.8	51
9	Synergistic effects of Cu-doped ZnO nanoantibiotic against Gram-positive bacterial strains. <i>PLoS ONE</i> , 2021, 16, e0251082.	1.1	51
10	Revalorization of CO ₂ for methanol production via ZnO promoted carbon nanofibers based Cu-ZrO ₂ catalytic hydrogenation. <i>Journal of Energy Chemistry</i> , 2019, 39, 68-76.	7.1	49
11	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
12	Structural, Optical, and Antibacterial Efficacy of Pure and Zinc-Doped Copper Oxide Against Pathogenic Bacteria. <i>Nanomaterials</i> , 2021, 11, 451.	1.9	46
13	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
14	Synthesis of boron nitride nanotubes by Argon supported Thermal Chemical Vapor Deposition. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 67, 33-37.	1.3	36
15	Enhanced Optical and Antibacterial Activity of Hydrothermally Synthesized Cobalt-Doped Zinc Oxide Cylindrical Microcrystals. <i>Materials</i> , 2021, 14, 3223.	1.3	35
16	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
17	Antibacterial, antioxidant and physicochemical investigations of tin dioxide nanoparticles synthesized via microemulsion method. <i>Materials Research Express</i> , 2021, 8, 035013.	0.8	29
18	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

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19	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
20	Fabrication of hexagonal boron nitride quantum dots via a facile bottom-up technique. <i>Ceramics International</i> , 2019, 45, 22765-22768.	2.3	24
21	A simple technique to synthesize pure and highly crystalline boron nitride nanowires. <i>Ceramics International</i> , 2014, 40, 14727-14732.	2.3	23
22	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
23	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
24	Effective Synthesis of Vertically Aligned Boron Nitride Nanotubes via a Simple CCVD. <i>Materials and Manufacturing Processes</i> , 2015, 30, 706-710.	2.7	19
25	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
26	Synthesis of highly crystalline multilayers structures of 10BNNTs as a potential neutron sensing element. <i>Ceramics International</i> , 2015, 41, 4544-4548.	2.3	18
27	Low temperature synthesis of high quality BNNTs via argon supported thermal CVD. <i>Ceramics International</i> , 2015, 41, 15222-15226.	2.3	18
28	Unmodified Titanium Dioxide Nanoparticles as a Potential Contrast Agent in Photon Emission Computed Tomography. <i>Crystals</i> , 2021, 11, 171.	1.0	18
29	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
30	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
31	Influence of growth duration on size and morphology of boron nitride nanotubes grown via chemical vapor deposition technique. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 85, 226-232.	1.9	16
32	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
33	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
34	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
35	The effect of reaction atmosphere and growth duration on the size and morphology of boron nitride nanotubes. <i>New Journal of Chemistry</i> , 2015, 39, 7912-7915.	1.4	14
36	Catalytic growth of vertically aligned neutron sensitive 10Boron nitride nanotubes. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	14

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37	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
38	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
39	Synthesis of Boron Nitride Microtubes and Formation of Boron Nitride Nanosheets. <i>Materials and Manufacturing Processes</i> , 2015, 30, 184-188.	2.7	13
40	Synthesis of Highly Crystalline Multilayered Boron Nitride Microflakes. <i>Scientific Reports</i> , 2016, 6, 21403.	1.6	13
41	Synthesis and characterization of boron nitride microtubes. <i>Materials Express</i> , 2015, 5, 249-254.	0.2	12
42	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
43	Synthesis of vertically aligned flower-like morphologies of BNNTs with the help of nucleation sites in Co-Ni alloy. <i>Materials Science in Semiconductor Processing</i> , 2015, 38, 113-118.	1.9	11
44	Synthesis of multilayered hexagonal boron nitride microcrystals as a potential hydrogen storage element. <i>Ceramics International</i> , 2017, 43, 7358-7361.	2.3	11
45	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
46	Synthesis of Boron-Doped Zinc Oxide Nanosheets by Using Phyllanthus Emblica Leaf Extract: A Sustainable Environmental Applications. <i>Frontiers in Chemistry</i> , 0, 10, .	1.8	11
47	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
48	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
49	Dielectric relaxation and electrical properties of Bi _{2.5} Nd _{0.5} Nb _{1.5} Fe _{0.5} O ₉ ceramics. <i>Materials Chemistry and Physics</i> , 2019, 226, 100-105.	2.0	8
50	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
51	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
52	A review of nanostructured based radiation sensors for neutron. , 2012, , .		7
53	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
54	The effects of 5 MeV carbon ion irradiation on micro-fine grain graphite. <i>Radiation Physics and Chemistry</i> , 2020, 166, 108512.	1.4	7

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55	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
56	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
57	Bio-Synthesized Tin Oxide Nanoparticles: Structural, Optical, and Biological Studies. <i>Crystals</i> , 2022, 12, 614.	1.0	7
58	CuYbO ₄ ·5Fe _{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
59	Compositional Analysis of Chalcopyrite Using Calibration-Free Laser-Induced Breakdown Spectroscopy. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6848.	1.3	6
60	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
61	Enhanced Photocatalytic Activity of <i>Ficus elastica</i> Mediated Zinc Oxide-Zirconium Dioxide Nanocatalyst at Elevated Calcination Temperature: Physicochemical Study. <i>Catalysts</i> , 2021, 11, 1481.	1.6	6
62	Synthesis of enriched boron nitride nanocrystals: A potential element for biomedical applications. <i>Applied Radiation and Isotopes</i> , 2020, 166, 109404.	0.7	5
63	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
64	Effect of Magnesium Doping on Voltage Decay of Nickel-Rich Cathode Materials. <i>ChemistrySelect</i> , 2021, 6, 13301-13308.	0.7	5
65	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
66	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
67	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
68	Structural, Optical, Electrical, and Photocatalytic Properties of Nickel Cobaltite (NiCo ₂ O ₄) Nanocomposite Fabricated by a Facile Microplasma Electrochemical Process. <i>Journal of Electronic Materials</i> , 2021, 50, 629-639.	1.0	4
69	Chemical Analysis of Thermoluminescent Colorless Topaz Crystal Using Laser-Induced Breakdown Spectroscopy. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 367.	0.8	4
70	Detection and Quantification of Precious Elements in Astrophyllite Mineral by Optical Spectroscopy. <i>Materials</i> , 2021, 14, 6277.	1.3	4
71	Boron nitride nanowires synthesis via a simple chemical vapor deposition at 1200 Å°C. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	3
72	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

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73	Control over spectral hole burning via spontaneously generated coherence and Kerr non-linearity. <i>Optik</i> , 2020, 224, 165558.	1.4	3
74	Single-step synthesis of magnesium-iron borates composite; an efficient electrocatalyst for dopamine detection. <i>Microchemical Journal</i> , 2021, 160, 105679.	2.3	3
75	Facile Synthesis of High-Quality Nano-Size 10B-Enriched Fibers of Hexagonal Boron Nitride. <i>Crystals</i> , 2021, 11, 222.	1.0	3
76	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
77	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
78	Controlled synthesis of anisotropic hexagonal boron nitride nano-web. <i>Materials Science in Semiconductor Processing</i> , 2017, 66, 44-49.	1.9	2
79	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
80	Dielectric behaviors and electrical properties of Gd-doped Aurivillius KBi ₄ Ti ₄ O ₁₅ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 14674-14680.	1.1	2
81	Toward improved heat dissipation of the turbulent regime over backward-facing step for the Al ₂ O ₃ -water nanofluids: An experimental approach. <i>Thermal Science</i> , 2019, 23, 1779-1789.	0.5	2
82	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
83	Dielectric relaxation and electrical properties of Na _{0.5} Bi ₄ La _{0.5} Ti ₄ O ₁₅ electroceramics. <i>Journal of Electroceramics</i> , 2020, 44, 147-153.	0.8	1
84	Defect-mediated photoluminescence enhancement in ZnO/ITO via MeV Cu ⁺⁺ ion irradiation. <i>Applied Radiation and Isotopes</i> , 2021, 169, 109461.	0.7	1
85	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
86	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
87	Fabrication, Characterization and Potential Applications of Boron Nitride Nanofibers. , 2018, , 105-129.		0
88	Structural and In Situ X-ray Diffraction Study of Hydrogenation of C _x Mg _{1-x} Ni ₂ (0 ≤ x ≤ 1). <i>Crystals</i> , 2022, 12, 47.	1.0	0