

Aslam Khan

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152
papers

2,160
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28
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164
ext. papers

2,871
ext. citations

4.3
avg, IF

5.83
L-index

#	Paper	IF	Citations
152	Preparation and characterization of N-isopropylacrylamide/acrylic acid copolymer core-shell microgel particles. <i>Journal of Colloid and Interface Science</i> , 2007 , 313, 697-704	9.3	71
151	Effective and fast adsorptive removal of toxic cationic dye (MB) from aqueous medium using amino-functionalized magnetic multiwall carbon nanotubes. <i>Journal of Molecular Liquids</i> , 2019 , 282, 154-161	6.1	71
150	Bifunctional electro-catalytic performances of CoWO ₄ nanocubes for water redox reactions (OER/ORR). <i>RSC Advances</i> , 2017 , 7, 45615-45623	3.7	70
149	Structural, morphological, opto-nonlinear-limiting studies on Dy:PbI ₂ /FTO thin films derived facily by spin coating technique for optoelectronic technology. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 130, 189-196	3.9	66
148	Preparation and characterization of magnetic nanoparticles embedded in microgels. <i>Materials Letters</i> , 2008 , 62, 898-902	3.3	66
147	Microwave-assisted synthesis of silver nanoparticles using poly-N-isopropylacrylamide/acrylic acid microgel particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 377, 356-360	5.1	60
146	A noticeable effect of Pr doping on key optoelectrical properties of CdS thin films prepared using spray pyrolysis technique for high-performance photodetector applications. <i>Ceramics International</i> , 2020 , 46, 4652-4663	5.1	60
145	A facile spray pyrolysis fabrication of Sm:CdS thin films for high-performance photodetector applications. <i>Sensors and Actuators A: Physical</i> , 2020 , 306, 111952	3.9	58
144	A significant enhancement in visible-light photodetection properties of chemical spray pyrolysis fabricated CdS thin films by novel Eu doping concentrations. <i>Sensors and Actuators A: Physical</i> , 2020 , 301, 111749	3.9	53
143	Facilely synthesized Cu:PbS nanoparticles and their structural, morphological, optical, dielectric and electrical studies for optoelectronic applications. <i>Materials Science in Semiconductor Processing</i> , 2019 , 96, 16-23	4.3	49
142	Synthesis by in situ chemical oxidative polymerization and characterization of polyaniline/iron oxide nanoparticle composite. <i>Polymer International</i> , 2010 , 59, 1690-1694	3.3	48
141	Rapid microwave-assisted synthesis of Ag-doped PbS nanoparticles for optoelectronic applications. <i>Ceramics International</i> , 2019 , 45, 21975-21985	5.1	47
140	Green synthesis of CuO nanoparticles using flower extract and their potential catalytic activity towards the aza-Michael reaction.. <i>RSC Advances</i> , 2020 , 10, 14374-14385	3.7	45
139	Effect of Gd doping on structural, optical properties, photoluminescence and electrical characteristics of CdS nanoparticles for optoelectronics. <i>Ceramics International</i> , 2019 , 45, 10133-10141	5.1	43
138	Magnetic nanocellulose: A potential material for removal of dye from water. <i>Journal of Hazardous Materials</i> , 2020 , 394, 122571	12.8	39
137	Visible light sensitive Cu doped ZnO: Facile synthesis, characterization and high photocatalytic response. <i>Materials Characterization</i> , 2020 , 165, 110387	3.9	38
136	A facile synthesis of Bi@PbS nanosheets and their key physical properties analysis for optoelectronic technology. <i>Materials Science in Semiconductor Processing</i> , 2020 , 107, 104807	4.3	36

135	A remarkable improvement in photocatalytic activity of ZnO nanoparticles through Sr doping synthesized by one pot flash combustion technique for water treatments. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 587, 124340	5.1	36
134	Solvent effect on optical properties of hydrated lanthanide tris-acetylacetonone. <i>Journal of Luminescence</i> , 2007 , 127, 446-452	3.8	34
133	The use of functionalized aerogels as a low level chromium scavenger. <i>Microporous and Mesoporous Materials</i> , 2015 , 203, 8-16	5.3	33
132	Au nanoparticles-doped g-C ₃ N ₄ nanocomposites for enhanced photocatalytic performance under visible light illumination. <i>Ceramics International</i> , 2020 , 46, 22090-22101	5.1	33
131	Utility of Silver Nanoparticles Embedded Covalent Organic Frameworks as Recyclable Catalysts for the Sustainable Synthesis of Cyclic Carbamates and 2-Oxazolidinones via Atmospheric Cyclizative CO ₂ Capture. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 5495-5513	8.3	33
130	A remarkable enhancement in photocatalytic activity of facily synthesized Terbium@Zinc oxide nanoparticles by flash combustion route for optoelectronic applications. <i>Applied Nanoscience (Switzerland)</i> , 2020 , 10, 1811-1823	3.3	33
129	Functionalized sol-gel material for extraction of mercury (II). <i>Reactive and Functional Polymers</i> , 2006 , 66, 1014-1020	4.6	32
128	A facile one-pot flash combustion synthesis of La@ZnO nanoparticles and their characterizations for optoelectronic and photocatalysis applications. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 395, 112465	4.7	30
127	Synthesis of double mesoporous core-shell silica spheres with tunable core porosity and their drug release and cancer cell apoptosis properties. <i>Journal of Colloid and Interface Science</i> , 2012 , 378, 83-92	9.3	30
126	Impact of precursor sequence of addition for one-pot synthesis of Cr-MCM-41 catalyst nanoparticles to enhance ethane oxidative dehydrogenation with carbon dioxide. <i>Ceramics International</i> , 2019 , 45, 1125-1134	5.1	29
125	Mesoporous multi-silica layer-coated YO:Eu core-shell nanoparticles: Synthesis, luminescent properties and cytotoxicity evaluation. <i>Materials Science and Engineering C</i> , 2019 , 96, 365-373	8.3	28
124	Shape-tunable CuO-Nd(OH) nanocomposites with excellent adsorption capacity in organic dye removal and regeneration of spent adsorbent to reduce secondary waste. <i>Journal of Hazardous Materials</i> , 2019 , 380, 120838	12.8	26
123	Electroactive Shape Memory Property of a Cu-decorated CNT Dispersed PLA/ESO Nanocomposite. <i>Materials</i> , 2015 , 8, 6391-6400	3.5	26
122	Pore Engineering of Mesoporous Tungsten Oxides for Ultrasensitive Gas Sensing. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801269	4.6	26
121	Enhanced photoelectrochemical water-splitting performance with a hierarchical heterostructure: Co ₃ O ₄ nanodots anchored TiO ₂ @P-C ₃ N ₄ core-shell nanorod arrays. <i>Chemical Engineering Journal</i> , 2021 , 404, 126458	14.7	26
120	An in-depth study on physical properties of facily synthesized Dy@CdS NPs through microwave route for optoelectronic technology. <i>Materials Science in Semiconductor Processing</i> , 2020 , 118, 105184	4.3	22
119	Bifunctional Electrocatalysts (Co ₉ S ₈ @NSC) Derived from a Polymer-metal Complex for the Oxygen Reduction and Oxygen Evolution Reactions. <i>ChemElectroChem</i> , 2018 , 5, 355-361	4.3	21
118	Facily fabricated Dy:PbI ₂ /glass thin films and their structural, linear and nonlinear optical studies for opto-nonlinear applications. <i>Vacuum</i> , 2020 , 173, 109122	3.7	20

117	Role of TiO ₂ nanoparticle modification of Cr/MCM41 catalyst to enhance Cr-support interaction for oxidative dehydrogenation of ethane with carbon dioxide. <i>Applied Catalysis A: General</i> , 2019 , 584, 117114	5.1	19
116	Synthesis and characterization of nano TiC dispersed strengthening W alloys via freeze-drying. <i>Journal of Alloys and Compounds</i> , 2021 , 859, 157774	5.7	19
115	One-step straightforward synthesis of Tb-doped NiO nanocomposites using flash combustion method: Structural, optical, luminescent, and electrical switching properties. <i>Ceramics International</i> , 2020 , 46, 10678-10690	5.1	18
114	One-Step Carbon Coating and Polyacrylamide Functionalization of Fe ³⁺ Nanoparticles for Enhancing Magnetic Adsorptive-Remediation of Heavy Metals. <i>Molecules</i> , 2017 , 22,	4.8	18
113	Preparation of thermo-responsive hydrogel-coated magnetic nanoparticles. <i>Materials Letters</i> , 2012 , 89, 12-15	3.3	18
112	Optimization of synthesis parameters for mesoporous shell formation on magnetic nanocores and their application as nanocarriers for docetaxel cancer drug. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 11496-509	6.3	18
111	Synthesis and characterization of egg-albumen-formaldehyde based magnetic polymeric resin (MPR): Highly efficient adsorbent for Cd(II) ion removal from aqueous medium. <i>Journal of Molecular Liquids</i> , 2019 , 286, 110951	6	16
110	Significance of Ni doping on structure-morphology-photoluminescence, optical and photocatalytic activity of CBD grown ZnO nanowires for opto-photocatalyst applications. <i>Inorganic Chemistry Communication</i> , 2020 , 119, 108082	3.1	16
109	Graphene oxide, an effective nanoadditive for a development of hollow fiber nanocomposite membrane with antifouling properties. <i>Advances in Polymer Technology</i> , 2018 , 37, 2597-2608	1.9	16
108	Significant Improvement in Electrical Conductivity and Figure of Merit of Nanoarchitected Porous SrTiO ₃ by La Doping Optimization. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 28057-28064	9.5	15
107	Efficient photodegradation of methylthioninium chloride dye in aqueous using barium tungstate nanoparticles. <i>Journal of Nanoparticle Research</i> , 2017 , 19, 1	2.3	15
106	A facile microwave synthesis of PbS:Sr nanoparticles and their key structural, morphological, optical, photoluminescence, dielectric and electrical studies for optoelectronics. <i>Materials Research Express</i> , 2019 , 6, 1250e6	1.7	15
105	High-Fidelity NIR-II Multiplexed Lifetime Bioimaging with Bright Double Interfaced Lanthanide Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 23545-23551	16.4	15
104	Preparation and characterization of pH-responsive and thermoresponsive hybrid microgel particles with gold nanorods. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 39-46	2.5	14
103	Stabilizer specific interaction of gold nanoparticles with a thermosensitive polymer hydrogel. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 1331-1348	2.3	13
102	Facile Synthesis of Tin Oxide Hollow Nanoflowers Interfering with Quorum Sensing-Regulated Functions and Bacterial Biofilms. <i>Journal of Nanomaterials</i> , 2018 , 2018, 1-11	3.2	13
101	Effect of Bi contents on key physical properties of NiO NPs synthesized by flash combustion process and their cytotoxicity studies for biomedical applications. <i>Ceramics International</i> , 2020 , 46, 19691-19700	5.1	12
100	Preparation of magnetic polyacrylonitrile core-shell nanospheres by the miniemulsion polymerization method. <i>Materials Letters</i> , 2012 , 76, 141-143	3.3	12

99	Designing zinc oxide nanostructures (nanoworms, nanoflowers, nanowalls, and nanorods) by pulsed laser ablation technique for gas-sensing application. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 4367-4375	3.8	12
98	Efficient aerial oxidation of different types of alcohols using ZnO nanoparticle/MnCO ₃ -graphene oxide composites. <i>Applied Organometallic Chemistry</i> , 2020 , 34, e5718	3.1	11
97	AgNPs encapsulated by an amine-functionalized polymer nanocatalyst for CO ₂ fixation as a carboxylic acid and the oxidation of cyclohexane under ambient conditions. <i>New Journal of Chemistry</i> , 2020 , 44, 5448-5456	3.6	11
96	Temperature-Responsive Polymer Microgel-Gold Nanorods Composite Particles: Physicochemical Characterization and Cytocompatibility. <i>Polymers</i> , 2018 , 10,	4.5	11
95	Structural, morphological, vibrational, optical, and nonlinear characteristics of spray pyrolyzed CdS thin films: Effect of Gd doping content. <i>Materials Chemistry and Physics</i> , 2020 , 255, 123615	4.4	11
94	Aqueous dispersible green luminescent yttrium oxide:terbium microspheres with nanosilica shell coating. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 211, 348-355	4.4	11
93	Visible light assisted chemical fixation of atmospheric CO ₂ into cyclic Carbonates using covalent organic framework as a potential photocatalyst. <i>Molecular Catalysis</i> , 2021 , 499, 11253	3.3	11
92	A nanoporous covalent organic framework for the green-reduction of CO ₂ under visible light in water. <i>New Journal of Chemistry</i> , 2020 , 44, 11720-11726	3.6	10
91	Mechanically Strong, Hydrophobic, Antimicrobial, and Corrosion Protective Polyesteramide Nanocomposite Coatings from Oil: A Sustainable Resource. <i>ACS Omega</i> , 2020 , 5, 30383-30394	3.9	10
90	An impact of La doping content on key physical properties of PbS spherical nanoparticles facily synthesized via low temperature chemical route. <i>European Physical Journal Plus</i> , 2020 , 135, 1	3.1	10
89	Enhanced photocatalytic reduction of Cr(VI) on silver nanoparticles modified mesoporous silicon under visible light. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 5071-5081	3.8	9
88	An efficient one-pot synthesis of industrially valuable primary organic carbamates and N-substituted ureas by a reusable Merrifield anchored iron(II)-anthra catalyst [Fe(Anthra-Merf)] using urea as a sustainable carbonylation source. <i>New Journal of Chemistry</i> , 2020 , 44, 2630-2643	3.6	9
87	Removal of Cd Ions by Sol-Gel Silica Doped with 1-(2-Pyridylazo)-2-Naphthol. <i>Journal of Sol-Gel Science and Technology</i> , 2003 , 27, 221-224	2.3	9
86	Dielectric and electrical properties of La@NiO SNPs for high-performance optoelectronic applications. <i>Ceramics International</i> , 2021 , 47, 15611-15621	5.1	9
85	Zn(II)-Embedded Nanoporous Covalent Organic Frameworks for Catalytic Conversion of CO ₂ under Solvent-Free Conditions. <i>ACS Applied Nano Materials</i> , 2021 , 4, 7663-7674	5.6	9
84	Optically active neodymium hydroxide surface-functionalized mesoporous silica micro-cocoons for biomedical applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 189, 110877	6	8
83	Triazinetriamine-derived porous organic polymer-supported copper nanoparticles (Cu-NPs@TzTa-POP): an efficient catalyst for the synthesis of N-methylated products via CO ₂ fixation and primary carbamates from alcohols and urea. <i>New Journal of Chemistry</i> , 2020 , 44, 15446-15458	3.6	8
82	Facile Fabrication of a ZnO/EuO/NiO-Based Ternary Heterostructure Nanophotocatalyst and Its Application for the Degradation of Methylene Blue. <i>ACS Omega</i> , 2021 , 6, 3866-3874	3.9	8

81	Functionalized nanospheres for efficient sequestration of cadmium ions. <i>RSC Advances</i> , 2014 , 4, 50056-50063	5.9	7
80	HUMIDITY SENSOR USING NIPAAm NANOGEL AS SENSING MEDIUM IN SAW DEVICES. <i>International Journal of Nanoscience</i> , 2011 , 10, 259-262	0.6	7
79	CdS Nanoparticles with a Thermoresponsive Polymer: Synthesis and Properties. <i>Journal of Nanomaterials</i> , 2012 , 2012, 1-8	3.2	7
78	Precisely Controlled Vertical Alignment in Mesostructured Carbon Thin Films for Efficient Electrochemical Sensing. <i>ACS Nano</i> , 2021 , 15, 7713-7721	16.7	7
77	Mitigation of acyl-homoserine lactone (AHL) based bacterial quorum sensing, virulence functions, and biofilm formation by yttrium oxide core/shell nanospheres: Novel approach to combat drug resistance. <i>Scientific Reports</i> , 2019 , 9, 18476	4.9	7
76	One-pot flash combustion synthesis of Fe@NiO nanocomposites for supercapacitor applications. <i>Ceramics International</i> , 2021 , 47, 9024-9033	5.1	7
75	Light-induced carboxylation of aryl derivatives with cooperative COF as an active photocatalyst and Ni(II) co-catalyst. <i>New Journal of Chemistry</i> , 2021 , 45, 4738-4745	3.6	7
74	Microwave-assisted synthesis of Cu doped PbS nanostructures with enhanced dielectric and electrical properties for optoelectronic applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021 , 271, 115268	3.1	7
73	NIR-II cell endocytosis-activated fluorescent probes for high-contrast bioimaging diagnostics. <i>Chemical Science</i> , 2021 , 12, 10474-10482	9.4	7
72	Complexation of Hg(II) ions with a functionalized adsorbent: A thermodynamic and kinetic approach. <i>Progress in Nuclear Energy</i> , 2018 , 105, 146-152	2.3	6
71	Novel modified alumina: Synthesis, characterization and application for separation of hydrocarbons. <i>Separation and Purification Technology</i> , 2007 , 55, 396-399	8.3	6
70	Novel rare earth Dy doping impact on physical properties of PbI ₂ nanostructures synthesized by microwave route for optoelectronics. <i>Materials Characterization</i> , 2020 , 170, 110688	3.9	6
69	Facile fabrication of novel nanostructured Au@PbI ₂ thin films and their structure, optical and NLO studies for higher order nonlinear applications. <i>Materials Chemistry and Physics</i> , 2021 , 265, 124458	4.4	6
68	In situ formation and immobilization of silver nanoparticles using thermo-responsive microgel particles and their cytotoxicity evaluation. <i>Materials Letters</i> , 2019 , 235, 197-201	3.3	6
67	2D covalent organic framework: a photoactive heterogeneous catalyst for chemical fixation of CO ₂ over propargyl amines in water under sunlight. <i>Materials Today Chemistry</i> , 2021 , 21, 100509	6.2	6
66	Structure, morphology and opto-nonlinear behaviors of Nd:PbI ₂ /FTO thin film system for optoelectronics. <i>Solid State Sciences</i> , 2020 , 103, 106192	3.4	5
65	Extraction-separation of mercury with 1-naphthylthiocarbamide. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1998 , 231, 41-43	1.5	5
64	Efficacy of a new tan doped sol-gel sorbent for uptake of zinc. <i>Radiochimica Acta</i> , 2003 , 91, 413-418	1.9	5

63	REMOVAL OF MERCURY BY 1-NAPHTHYLTHIOCARBAMIDE DOPED XEROGEL USING RADIOTRACER TECHNIQUE. <i>Separation Science and Technology</i> , 2002 , 37, 3099-3107	2.5	5
62	Enhanced photocatalytic activities of facile auto-combustion synthesized ZnO nanoparticles for wastewater treatment: An impact of Ni doping. <i>Chemosphere</i> , 2021 , 291, 132687	8.4	5
61	An in-depth investigation of physical properties of Nd doped CdS thin films for optoelectronic applications. <i>Chinese Journal of Physics</i> , 2020 , 67, 681-694	3.5	5
60	Porous organic polymer as an efficient organocatalyst for the synthesis of biofuel ethyl levulinate. <i>Molecular Catalysis</i> , 2020 , 494, 111119	3.3	5
59	Tailoring the structure-morphology-vibrational-optical-dielectric and electrical characteristics of Ce@NiO NPs produced by facile combustion route for optoelectronics. <i>Materials Science in Semiconductor Processing</i> , 2021 , 126, 105647	4.3	5
58	Rare-earth (Dy)-doped (GeS ₂) ₈₀ (In ₂ S ₃) ₂₀ thin film: influence of annealing temperature in argon environment on the linear and nonlinear optical parameters. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	5
57	Screen printed TiO ₂ film: A candidate for photovoltaic applications. <i>Materials Research Express</i> , 2020 , 7, 065904	1.7	4
56	Synergetic Impact of Secondary Metal Oxides of Cr-M/MCM41 Catalyst Nanoparticles for Ethane Oxidative Dehydrogenation Using Carbon Dioxide. <i>Crystals</i> , 2020 , 10, 7	2.3	4
55	Toxicity response of highly colloidal, bioactive, monodisperse SiO@ Pr(OH) hollow microspheres. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 182, 110390	6	4
54	Synthesis of Magnetic Core/Mesoporous Silica Shell Nanoparticles Using Anionic Surfactant and Their Application for Ketoprofen Control Release. <i>Chemistry Letters</i> , 2012 , 41, 1357-1359	1.7	4
53	Fabrication of mesoporous silica shells on solid silica spheres using anionic surfactants and their potential application in controlling drug release. <i>Molecules</i> , 2012 , 17, 13199-210	4.8	4
52	A Novel Dye-Doped Sol-Gel Silica Sorbent for the Removal of Cobalt. <i>Adsorption Science and Technology</i> , 2003 , 21, 205-215	3.6	4
51	New Thiocarbamate Doped Sol-Gel Silica Extractant for Chromium (III). <i>Main Group Metal Chemistry</i> , 2004 , 27,	1.6	4
50	Synthesis, optical properties and toxic potentiality of photoluminescent lanthanum oxide nanospheres. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 607, 125511	5.1	4
49	Synthesis and Characterization of Functionalized Nanosilica for Zinc Ion Mitigation; Experimental and Computational Investigations. <i>Molecules</i> , 2020 , 25,	4.8	4
48	Effect of Laponite [®] nanoclay dispersion on electrical, structural, and photovoltaic properties of dispersed [Poly(Ethylene oxide)-succinonitrile]-LiI-I ₂ solid polymer electrolyte. <i>Journal of Power Sources</i> , 2021 , 490, 229509	8.9	4
47	Temperature dependent surface and spectral modifications of nano V ₂ O ₅ films. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2017 , 122, 420-425	0.7	3
46	Facilely fabricated Sr@NiO/FTO films and their characterizations for opto-nonlinear applications. <i>Chinese Journal of Physics</i> , 2020 , 66, 91-101	3.5	3

45	Biocompatible NaYF ₄ :Yb,Er upconversion nanoparticles: Colloidal stability and optical properties. <i>Journal of Saudi Chemical Society</i> , 2021 , 25, 101390	4.3	3
44	Eco-Friendly and Solvent-Less Mechanochemical Synthesis of ZrO ₂ /MnCO ₃ /N-Doped Graphene Nanocomposites: A Highly Efficacious Catalyst for Base-Free Aerobic Oxidation of Various Types of Alcohols. <i>Catalysts</i> , 2020 , 10, 1136	4	3
43	Synthesis and Characterization of Co _x O _y /MnCO ₃ and Co _x O _y /Mn ₂ O ₃ Catalysts: A Comparative Catalytic Assessment Towards the Aerial Oxidation of Various Kinds of Alcohols. <i>Processes</i> , 2020 , 8, 910	2.9	3
42	Insight into Al doping effect on photodetector performance of CdS and CdS:Mg films prepared by self-controlled nebulizer spray technique. <i>Journal of Alloys and Compounds</i> , 2021 , 160801	5.7	3
41	Evaluation of isotopic boron (11B) for the fabrication of low activation Mg ₁₁ B ₂ superconductor for next generation fusion magnets. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 5488-5495	3.8	3
40	Effect of Er doping on linear and nonlinear optical properties of NiO films. <i>Chinese Journal of Physics</i> , 2021 , 72, 547-557	3.5	3
39	Zinc influence on nanostructured tin oxide (SnO ₂) films as ammonia sensor at room temperature. <i>Surfaces and Interfaces</i> , 2021 , 25, 101195	4.1	3
38	Performance analysis of SnS thin films fabricated using thermal evaporation technique for photodetector applications. <i>Optik</i> , 2021 , 244, 167460	2.5	3
37	Facile fabrication of Ag/Y:CdS/Ag thin films-based photodetectors with enhanced photodetection performance. <i>Sensors and Actuators A: Physical</i> , 2021 , 331, 112890	3.9	3
36	Polysulfone/poly(Orthotoluidine) nanocomposite membrane with an improved separation performance. <i>Polymer Composites</i> , 2017 , 38, E157-E166	3	2
35	Luminescent surface-functionalized mesoporous core-shell nanospheres and their cytotoxicity evaluation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 573, 146-156	5.1	2
34	Adsorption of Methylene Blue Onto Acacia Modesta Carbon: Kinetic and Thermodynamic Study. <i>Zeitschrift Fur Physikalische Chemie</i> , 2019 , 233, 1019-1033	3.1	2
33	Development of Hydrophobic, Anticorrosive, Nanocomposite Polymeric Coatings from Canola Oil: A Sustainable Resource. <i>Polymers</i> , 2020 , 12,	4.5	2
32	Synthesis, Characterization and Catalytic Evaluation of Chromium Oxide Deposited on Titania/Silica Mesoporous Nanocomposite for the Ethane Dehydrogenation with CO ₂ . <i>Crystals</i> , 2020 , 10, 322	2.3	2
31	Tailored silica nanospheres: an efficient adsorbent for environmental chromium remediation. <i>Radiochimica Acta</i> , 2018 , 106, 427-435	1.9	2
30	Semibath Polymerization Approach for One-Pot Synthesis of Temperature- and Glucose-Responsive Core-Shell Nanogel Particles. <i>Journal of Nanomaterials</i> , 2018 , 2018, 1-9	3.2	2
29	Structural characterization and dielectric properties of ceria/titania nanocomposites in low ceria region. <i>Materials Research Express</i> , 2017 , 4, 125016	1.7	2
28	Functionalized Sol-Gel Silica as Solid Phase Extractant. <i>Main Group Metal Chemistry</i> , 2007 , 30,	1.6	2

27	Selective separation of silver(I) by novel substituted thiourea. <i>Radiochimica Acta</i> , 2007 , 95, 471-475	1.9	2
26	Selective Extraction of Mercury(II) by 1-Naphthylthiourea-Methyl Isobutyl Ketone System. <i>Separation Science and Technology</i> , 2006 , 41, 1169-1177	2.5	2
25	External Stimuli Responsive Characteristics of Epoxy-Polyamide/Starch Blend Films. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2003 , 40, 1183-1197	2.2	2
24	An impact of novel Terbium (Tb) doping on key opto-nonlinear optical characteristics of spray pyrolyzed NiO nanostructured films for opto-nonlinear applications. <i>Materials Science in Semiconductor Processing</i> , 2022 , 138, 106260	4.3	2
23	An approach to identify potential medicinal plants for treating Alzheimer disease: a case study with acetylcholinesterase. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020 , 1-13	3.6	2
22	Generation of Anisotropic Au Nanostructures in Aqueous Carboxymethyl Cellulose Matrix for Potential Catalytic Application. <i>ChemistrySelect</i> , 2019 , 4, 14253-14260	1.8	2
21	Mechanism of Enhanced Carbon Substitution in CNT-MgB ₂ Superconductor Composite Using Ball Milling in a Methanol Medium: Positive Role of Boron Oxide. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 1119-1126	1.5	2
20	Organic-inorganic hybrids: an efficient extractant of environmental mercury ions. <i>Materials Research Express</i> , 2018 , 5, 075007	1.7	2
19	Highly hydrophilic CaF ₂ :Yb/Er upconversion nanoparticles: Structural, morphological, and optical properties. <i>Journal of Fluorine Chemistry</i> , 2021 , 247, 109820	2.1	2
18	The anti-oxidant enzyme, Prdx6 might have cis-acting regulatory sequence(s). <i>International Journal of Biological Macromolecules</i> , 2020 , 149, 1139-1150	7.9	1
17	High sensitive samarium-doped ZnS thin films for photo-detector applications. <i>Optical Materials</i> , 2021 , 122, 111649	3.3	1
16	Interplay between cold densification and malic acid addition (C ₄ H ₆ O ₅) for the fabrication of near-isotropic MgB ₂ conductors for magnet application. <i>Journal of Magnesium and Alloys</i> , 2020 , 8, 493-498	8.8	1
15	Macroporous polystyrene degraded and functionalized chromium MPS-Cr(III)-alen complex as a sustainable porous catalyst for CO ₂ fixation under atmospheric pressure and selective oxidation of aromatic alkenes. <i>New Journal of Chemistry</i> , 2020 , 44, 13852-13862	3.6	1
14	Mesoporous Organo-Silica Supported Chromium Oxide Catalyst for Oxidative Dehydrogenation of Ethane to Ethylene with CO ₂ . <i>Catalysts</i> , 2021 , 11, 642	4	1
13	Solventless Mechanochemical Fabrication of ZnO/MnCO ₃ /N-Doped Graphene Nanocomposite: Efficacious and Recoverable Catalyst for Selective Aerobic Dehydrogenation of Alcohols under Alkali-Free Conditions. <i>Catalysts</i> , 2021 , 11, 760	4	1
12	Construction of AC/DC magnetic syringe device for stimulated drug release, injection and ejection of nanocarriers and testing cytotoxicity. <i>MethodsX</i> , 2021 , 8, 101312	1.9	1
11	Comprehensive Study on Nebulizer-Spray-Pyrolyzed Eu-Doped PbS Thin Films for Optoelectronic Applications. <i>Journal of Electronic Materials</i> , 2020 , 49, 5439-5448	1.9	0
10	Sapindus mukorossi seed shell extract mediated green synthesis of CuO nanostructures: an efficient catalyst for C-N bond-forming reactions. <i>Materials Advances</i> , 2022 , 3, 1115-1124	3.3	0

9	Noticeably enhanced opto-electrical and photodetection performance of spray pyrolysis grown Mn:CdS nanostructured thin films for visible-light sensor applications. <i>Surfaces and Interfaces</i> , 2021 , 101586	4.1	○
8	Tailoring the structural, optical and remarkably enhanced photocatalytic activities of nickel oxide nanostructures through cobalt doping. <i>Surfaces and Interfaces</i> , 2021 , 27, 101515	4.1	○
7	AC/DC magnetic device for safe medical use of potentially harmful magnetic nanocarriers. <i>Journal of Hazardous Materials</i> , 2021 , 409, 124918	12.8	○
6	A remarkable effect of substrate temperature on novel Al/Y2O3/n-Si heterojunction diodes performance fabricated by facile jet nebulizer spray pyrolysis for optoelectronic applications. <i>Chinese Journal of Physics</i> , 2021 , 75, 14-14	3.5	○
5	Significant and systematic impact of yttrium doping on physical properties of nickel oxide nanoparticles for optoelectronics applications. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 2584-2600	5.5	○
4	Spray pyrolysis developed Nd doped Co3O4 nanostructured thin films and their structural, and opto-nonlinear properties for optoelectronics applications. <i>Optics and Laser Technology</i> , 2022 , 150, 107959	4.3	○
3	In Situ Carbonylative Synthesis of Aromatic Esters and Formation of Quinazoline-2,4(1H,3H)-diones by Chemical Fixation of CO2 in Assistance of Polymer-Supported Palladium Catalyst. <i>ChemistrySelect</i> , 2020 , 5, 10355-10366	1.8	
2	Enhanced critical current density in Nb3Al superconductor by optimizing mechanical alloying and subsequent sintering process. <i>Materials Chemistry and Physics</i> , 2021 , 259, 123955	4.4	
1	Surface-enhanced Raman scattering (SERS) active substrate from gold nanoparticle-coated porous silicon for sensitive detection of horseradish peroxidase enzyme. <i>Materials Chemistry and Physics</i> , 2022 , 281, 125931	4.4	