

Mohd Rafie Bin Johan

List of Publications by Year in descending order

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288
papers

5,922
citations

94415

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292
all docs

292
docs citations

292
times ranked

6105
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of Efficient Magnetic Particles and Activated Carbon for Dye Removal from Wastewater. ACS Omega, 2020, 5, 20684-20697.	3.5	240
2	Influence of Mg Doping on ZnO Nanoparticles for Enhanced Photocatalytic Evaluation and Antibacterial Analysis. Nanoscale Research Letters, 2018, 13, 229.	5.7	211
3	Effects of Al ₂ O ₃ nanofiller and EC plasticizer on the ionic conductivity enhancement of solid PEO-LiCF ₃ SO ₃ solid polymer electrolyte. Solid State Ionics, 2011, 196, 41-47.	2.7	170
4	Comprehensive review on nanocellulose: Recent developments, challenges and future prospects. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 110, 103884.	3.1	148
5	Structural, electronic, optical and thermodynamic investigations of NaXF ₃ (X ⁻ =Ca and Sr): First-principles calculations. Chinese Journal of Physics, 2018, 56, 131-144.	3.9	125
6	Influence of Ni nanoparticle on the morphology and growth of interfacial intermetallic compounds between Sn _{3.8} Ag _{0.7} Cu lead-free solder and copper substrate. Intermetallics, 2013, 33, 8-15.	3.9	120
7	Recent developments in biomass-derived carbon as a potential sustainable material for super-capacitor-based energy storage and environmental applications. Journal of Analytical and Applied Pyrolysis, 2019, 140, 54-85.	5.5	118
8	Conductivity and dielectric behaviour of PEO-based solid nanocomposite polymer electrolytes. Solid State Communications, 2012, 152, 426-434.	1.9	87
9	Stability of molybdenum nanoparticles in Sn _{3.8} Ag _{0.7} Cu solder during multiple reflow and their influence on interfacial intermetallic compounds. Materials Characterization, 2012, 64, 27-35.	4.4	86
10	Hybrid nanocellulose/f-MWCNTs nanocomposite for the electrochemical sensing of diclofenac sodium in pharmaceutical drugs and biological fluids. Electrochimica Acta, 2019, 304, 323-333.	5.2	81
11	Eggshells: A novel bio-filler for intumescent flame-retardant coatings. Progress in Organic Coatings, 2015, 81, 116-124.	3.9	79
12	Effects of various LiPF ₆ salt concentrations on PEO-based solid polymer electrolytes. Ionics, 2011, 17, 399-405.	2.4	76
13	Polycyclic aromatic hydrocarbons extraction and removal from wastewater by carbon nanotubes: A review of the current technologies, challenges and prospects. Chemical Engineering Research and Design, 2019, 122, 68-82.	5.6	74
14	Reduced graphene/nanostructured cobalt oxide nanocomposite for enhanced electrochemical performance of supercapacitor applications. Journal of Colloid and Interface Science, 2020, 558, 68-77.	9.4	74
15	Carbon nanofibers based copper/zirconia catalysts for carbon dioxide hydrogenation to methanol: Effect of copper concentration. Chemical Engineering Journal, 2018, 334, 619-629.	12.7	71
16	Influences of flame-retardant fillers on fire protection and mechanical properties of intumescent coatings. Progress in Organic Coatings, 2015, 78, 59-66.	3.9	69
17	Heat transfer growth of sonochemically synthesized novel mixed metal oxide ZnO+Al ₂ O ₃ +TiO ₂ /DW based ternary hybrid nanofluids in a square flow conduit. Renewable and Sustainable Energy Reviews, 2021, 145, 111025.	16.4	69
18	Graphene oxide and gold nanoparticle based dual platform with short DNA probe for the PCR free DNA biosensing using surface-enhanced Raman scattering. Biosensors and Bioelectronics, 2019, 131, 214-223.	10.1	64

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19	Synthesis of Bimetallic Gold-Silver (Au-Ag) Nanoparticles for the Catalytic Reduction of 4-Nitrophenol to 4-Aminophenol. <i>Catalysts</i> , 2018, 8, 412.	3.5	62
20	Nanomaterials based electrochemical nucleic acid biosensors for environmental monitoring: A review. <i>Applied Surface Science Advances</i> , 2021, 4, 100064.	6.8	59
21	Combined effect of CuO nanofillers and DBP plasticizer on ionic conductivity enhancement in the solid polymer electrolyte PEO-LiCF ₃ SO ₃ . <i>Ionics</i> , 2010, 16, 335-338.	2.4	58
22	Conductivity and optical studies of plasticized solid polymer electrolytes doped with carbon nanotube. <i>Journal of Luminescence</i> , 2012, 132, 147-152.	3.1	56
23	Physico-chemical properties of titania nanotubes synthesized via hydrothermal and annealing treatment. <i>Applied Surface Science</i> , 2011, 258, 431-435.	6.1	54
24	Synthesis and size dependent optical studies in CdSe quantum dots via inverse micelle technique. <i>Materials Chemistry and Physics</i> , 2010, 124, 395-398.	4.0	52
25	Effects of Cobalt Loading, Particle Size, and Calcination Condition on Co/CNT Catalyst Performance in Fischer-Tropsch Reactions. <i>Symmetry</i> , 2019, 11, 7.	2.2	51
26	Synthesis and Growth Mechanism of Silver Nanowires through Different Mediated Agents (CuCl ₂ and NaCl) Polyol Process. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-7.	2.7	50
27	Carbon nanofiber-based copper/zirconia catalyst for hydrogenation of CO ₂ to methanol. <i>Journal of CO₂ Utilization</i> , 2017, 21, 145-155.	6.8	50
28	Recent developments in reduced graphene oxide nanocomposites for photoelectrochemical water-splitting applications. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 11976-11994.	7.1	50
29	Synthesis and evaluation of the structural, optical, and antibacterial properties of copper oxide nanoparticles. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	49
30	Effect of Cobalt Catalyst Confinement in Carbon Nanotubes Support on Fischer-Tropsch Synthesis Performance. <i>Symmetry</i> , 2018, 10, 572.	2.2	48
31	The formulation and study of the thermal stability and mechanical properties of an acrylic coating using chicken eggshell as a novel bio-filler. <i>Progress in Organic Coatings</i> , 2013, 76, 1549-1555.	3.9	47
32	Eco-friendly approach in synthesis of silver nanoparticles and evaluation of optical, surface morphological and antimicrobial properties. <i>Journal of Nanostructure in Chemistry</i> , 2019, 9, 153-162.	9.1	44
33	Synthesis of new low-viscous sulfonic acid-functionalized ionic liquid and its application as a Brønsted liquid acid catalyst for the one-pot mechanosynthesis of 4H-pyrans through the ball milling process. <i>Journal of Molecular Liquids</i> , 2019, 277, 794-804.	4.9	43
34	Synthesis, characterization and cytotoxicity studies of nanocrystalline cellulose from the production waste of rubber-wood and kenaf-bast fibers. <i>European Polymer Journal</i> , 2019, 116, 352-360.	5.4	41
35	Addition of cobalt nanoparticles into Sn ₃ Ag _{0.7} Cu lead-free solder by paste mixing. <i>Soldering and Surface Mount Technology</i> , 2011, 23, 10-14.	1.5	40
36	Enhancement of thermal conductivity and kinematic viscosity in magnetically controllable maghemite (γ-Fe ₂ O ₃) nanofluids. <i>Experimental Thermal and Fluid Science</i> , 2016, 77, 265-271.	2.7	40

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37	Highly efficient green mesostructured urea functionalized on SBA-15 catalysts for selective synthesis of benzidienemalononitrile. <i>Microporous and Mesoporous Materials</i> , 2018, 256, 67-74.	4.4	40
38	Enhanced amperometric detection of paracetamol by immobilized cobalt ion on functionalized MWCNTs - Chitosan thin film. <i>Analytical Biochemistry</i> , 2018, 551, 29-36.	2.4	40
39	Preparation and Low-Temperature Sintering of Cu Nanoparticles for High-Power Devices. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2012, 2, 587-592.	2.5	38
40	Tailoring the morphological features of sol-gel synthesized mesoporous hydroxyapatite using fatty acids as an organic modifier. <i>RSC Advances</i> , 2019, 9, 6228-6240.	3.6	38
41	Mechanical characteristics of swollen elastomers under cyclic loading. <i>Materials & Design</i> , 2013, 44, 566-572.	5.1	36
42	A one-step facile route synthesis of copper oxide/reduced graphene oxide nanocomposite for supercapacitor applications. <i>Journal of Experimental Nanoscience</i> , 2018, 13, 284-296.	2.4	33
43	Advancements in electrochemical DNA sensor for detection of human papilloma virus - A review. <i>Analytical Biochemistry</i> , 2018, 556, 136-144.	2.4	33
44	Effects of MnO ₂ nano-particles on the conductivity of PMMA-PEO-LiClO ₄ -EC polymer electrolytes. <i>Ionics</i> , 2011, 17, 485-490.	2.4	31
45	Facile shape control synthesis and optical properties of silver nanoparticles stabilized by Daxad 19 surfactant. <i>Applied Surface Science</i> , 2011, 257, 7494-7500.	6.1	31
46	Noncentrosymmetric Sulfide Oxide MZnSO (M = Ca or Sr) with Strongly Polar Structure as Novel Nonlinear Crystals. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27172-27180.	3.1	31
47	Effect of pH, Acid and Thermal Treatment Conditions on Co/CNT Catalyst Performance in Fischer-Tropsch Reaction. <i>Symmetry</i> , 2019, 11, 50.	2.2	31
48	Development of a compression test device for investigating interaction between diffusion of biodiesel and large deformation in rubber. <i>Polymer Testing</i> , 2011, 30, 867-875.	4.8	30
49	Authentication of Halal and Kosher meat and meat products: Analytical approaches, current progresses and future prospects. <i>Critical Reviews in Food Science and Nutrition</i> , 2022, 62, 285-310.	10.3	30
50	Effect of ZnO-water based nanofluids from sonochemical synthesis method on heat transfer in a circular flow passage. <i>International Communications in Heat and Mass Transfer</i> , 2020, 114, 104591.	5.6	30
51	Electrochemical biosensors with Aptamer recognition layer for the diagnosis of pathogenic bacteria: Barriers to commercialization and remediation. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 145, 116458.	11.4	30
52	Conductivity, thermal and morphology studies of PEO based salted polymer electrolytes. <i>Solid State Sciences</i> , 2012, 14, 1111-1116.	3.2	29
53	A facile hydrothermal approach for catalytic and optical behavior of tin oxide- graphene (SnO ₂ /G) nanocomposite. <i>PLoS ONE</i> , 2018, 13, e0202694.	2.5	29
54	Fabrication of reduced graphene oxide/CeO ₂ nanocomposite for enhanced electrochemical performance. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	29

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55	Interaction between diffusion of palm biodiesel and large strain in rubber: Effect on stress-softening during cyclic loading. <i>Mechanics Research Communications</i> , 2012, 43, 80-86.	1.8	28
56	Two novel binuclear sulfonic-functionalized ionic liquids: Influence of anion and carbon-spacer on catalytic efficiency for one-pot synthesis of bis(indolyl)methanes. <i>Journal of Molecular Liquids</i> , 2018, 259, 260-273.	4.9	28
57	Heptaplex Polymerase Chain Reaction Assay for the Simultaneous Detection of Beef, Buffalo, Chicken, Cat, Dog, Pork, and Fish in Raw and Heat-Treated Food Products. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 8268-8278.	5.2	28
58	The improved photocatalytic activity of highly expanded MoS ₂ under visible light emitting diodes. <i>Nanoscale Advances</i> , 2021, 3, 1106-1120.	4.6	28
59	Functionalized graphene-based nanocomposites for smart optoelectronic applications. <i>Nanotechnology Reviews</i> , 2021, 10, 605-635.	5.8	28
60	Exploiting of geothermal energy reserve and potential in Saudi Arabia: A case study at Ain Al Harrah. <i>Energy Reports</i> , 2019, 5, 632-638.	5.1	27
61	Tailoring morphological characteristics of zinc oxide using a one-step hydrothermal method for photoelectrochemical water splitting application. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 17535-17543.	7.1	27
62	A support vector regression model for the prediction of total polyaromatic hydrocarbons in soil: an artificial intelligent system for mapping environmental pollution. <i>Neural Computing and Applications</i> , 2020, 32, 14899-14908.	5.6	27
63	Synthesis of Y ₃ Ba ₅ Cu ₈ O ₁₈ superconductor powder by auto-combustion reaction: Effects of citrate/nitrate ratio. <i>Physica C: Superconductivity and Its Applications</i> , 2012, 480, 75-78.	1.2	26
64	Electromagnetic and microwave absorbing properties of amorphous carbon nanotube/cadmium selenide quantum dot hybrids. <i>Materials Chemistry and Physics</i> , 2013, 139, 66-72.	4.0	26
65	Efficient synthesis of butyl levulinate from furfuryl alcohol over ordered mesoporous Ti-KIT-6 catalysts for green chemistry applications. <i>RSC Advances</i> , 2017, 7, 55206-55214.	3.6	26
66	TaqMan probe based multiplex quantitative PCR assay for determination of bovine, porcine and fish DNA in gelatin admixture, food products and dietary supplements. <i>Food Chemistry</i> , 2020, 325, 126756.	8.2	26
67	Ultrasonic assisted new Al ₂ O ₃ @TiO ₂ -ZnO/DW ternary composites nanofluids for enhanced energy transportation in a closed horizontal circular flow passage. <i>International Communications in Heat and Mass Transfer</i> , 2021, 120, 105018.	5.6	26
68	Tri-metallic Co-Ni-Cu based metal organic framework nanostructures for the detection of an anticancer drug nilutamide. <i>Sensors and Actuators A: Physical</i> , 2021, 325, 112711.	4.1	26
69	Enhanced Photocatalytic Activity of rGO-CuO Nanocomposites for the Degradation of Organic Pollutants. <i>Catalysts</i> , 2021, 11, 1008.	3.5	26
70	Synthesis and characterizations of AgI nanoparticles via mechanochemical reaction. <i>Journal of Alloys and Compounds</i> , 2011, 509, 2001-2006.	5.5	25
71	Physico-chemical studies of amorphous carbon nanotubes synthesized at low temperature. <i>Materials Research Bulletin</i> , 2012, 47, 1849-1854.	5.2	25
72	Concentration-dependent properties of amorphous carbon nanotube/silica composites via the sol-gel technique. <i>CrystEngComm</i> , 2014, 16, 8570-8575.	2.6	25

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73	Supported cobalt nanoparticles on graphene oxide/mesoporous silica for oxidation of phenol and electrochemical detection of H ₂ O ₂ and Salmonella spp. <i>Materials Chemistry and Physics</i> , 2019, 232, 493-505.	4.0	25
74	Facile fabrication of phase transformed cerium (IV) doped hydroxyapatite for biomedical applications – A health care approach. <i>Ceramics International</i> , 2020, 46, 2510-2522.	4.8	25
75	A novel photoanode based on Thorium oxide (ThO ₂) incorporated with graphitic Carbon nitride (g-C ₃ N ₄) for Photoelectrochemical water splitting. <i>Applied Surface Science</i> , 2021, 569, 151043.	6.1	25
76	Conductivity, thermal and infrared studies on plasticized polymer electrolytes with carbon nanotubes as filler. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 210-216.	3.1	24
77	Synthesis and growth kinetics of spindle CuO nanocrystals via pulsed wire explosion in liquid medium. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	24
78	One dimensional CuO nanocrystals synthesis by electrical explosion: A study on structural, optical and electronic properties. <i>Journal of Alloys and Compounds</i> , 2014, 586, 360-367.	5.5	24
79	An experimental study of elastic properties of dragonfly-like flapping wings for use in biomimetic micro air vehicles (BMAVs). <i>Chinese Journal of Aeronautics</i> , 2017, 30, 726-737.	5.3	24
80	Tailoring the structural, morphological, optical, thermal and dielectric characteristics of ZnO nanoparticles using starch as a capping agent. <i>Results in Physics</i> , 2019, 15, 102543.	4.1	24
81	Evaluation of Municipal Solid Wastes Based Energy Potential in Urban Pakistan. <i>Processes</i> , 2019, 7, 848.	2.8	24
82	Impedance spectroscopy of carbon nanotube/solid polymer electrolyte composites. <i>Solid State Communications</i> , 2011, 151, 1828-1832.	1.9	23
83	Effect of the oxidation process on the molecular interaction of polyaromatic hydrocarbons (PAH) with carbon nanotubes: Adsorption kinetic and isotherm study. <i>Journal of Molecular Liquids</i> , 2019, 289, 111107.	4.9	23
84	Current trends in polymerase chain reaction based detection of three major human pathogenic vibrios. <i>Critical Reviews in Food Science and Nutrition</i> , 2022, 62, 1317-1335.	10.3	23
85	Detection and discrimination of seven highly consumed meat species simultaneously in food products using heptaplex PCR-RFLP assay. <i>Journal of Food Composition and Analysis</i> , 2021, 100, 103938.	3.9	23
86	Fire Propagation Performance of Intumescent Fire Protective Coatings Using Eggshells as a Novel Biofiller. <i>Scientific World Journal</i> , The, 2014, 2014, 1-9.	2.1	22
87	Temperature-dependent properties of silver-poly(methylmethacrylate) nanocomposites synthesized by in-situ technique. <i>Nanoscale Research Letters</i> , 2014, 9, 42.	5.7	22
88	Enhanced Structural, Thermal, and Electrical Properties of Multiwalled Carbon Nanotubes Hybridized with Silver Nanoparticles. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-9.	2.7	22
89	Smart stimuli-responsive nanocarriers for the cancer therapy – nanomedicine. <i>Nanotechnology Reviews</i> , 2021, 10, 933-953.	5.8	22
90	Nucleic acid-based electrochemical biosensors for rapid clinical diagnosis: advances, challenges, and opportunities. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2022, 59, 156-177.	6.1	22

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91	Synthesis of Al ₂ O ₃ nanoparticles highly distributed in YBa ₂ Cu ₃ O ₇ superconductor by citrate-nitrate auto-combustion reaction. <i>Physica C: Superconductivity and Its Applications</i> , 2013, 492, 49-54.	1.2	21
92	Bifunctional rice husk-derived SiO ₂ -Cu-Al-Mg nanohybrid catalyst for one-pot conversion of biomass-derived furfural to furfuryl acetate. <i>Fuel</i> , 2020, 275, 117953.	6.4	21
93	Impact of TiO ₂ Nanotubes™ Morphology on the Photocatalytic Degradation of Simazine Pollutant. <i>Materials</i> , 2018, 11, 2066.	2.9	20
94	Universal mitochondrial 16s rRNA biomarker for mini-barcode to identify fish species in Malaysian fish products. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2019, 36, 493-506.	2.3	20
95	Short targeting multiplex PCR assay to detect and discriminate beef, buffalo, chicken, duck, goat, sheep and pork DNA in food products. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2021, 38, 1273-1288.	2.3	20
96	An overview of metal-free sustainable nitrogen-based catalytic knoevenagel condensation reaction. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 2164-2186.	2.8	20
97	Interfacial reaction and dissolution behavior of Cu substrate in molten Sn _{3.8} Ag _{0.7} Cu in the presence of Mo nanoparticles. <i>Soldering and Surface Mount Technology</i> , 2011, 23, 140-149.	1.5	19
98	Mullins effect in swollen rubber: Experimental investigation and constitutive modelling. <i>Polymer Testing</i> , 2013, 32, 748-759.	4.8	19
99	Recent developments in selective catalytic conversion of lignin into aromatics and their derivatives. <i>Biomass Conversion and Biorefinery</i> , 2020, 10, 873-883.	4.6	19
100	Super-Amphiphobic Coating System Incorporating Functionalized Nano-Al ₂ O ₃ in Polyvinylidene Fluoride (PVDF) with Enhanced Corrosion Resistance. <i>Coatings</i> , 2020, 10, 387.	2.6	19
101	Functionalization of graphene-based materials: Effective approach for enhancement of tribological performance as lubricant additives. <i>Diamond and Related Materials</i> , 2021, 115, 108357.	3.9	19
102	Electrodeposition of BiVO ₄ with needle-like flower architecture for high performance photoelectrochemical splitting of water. <i>Ceramics International</i> , 2021, 47, 24227-24239.	4.8	19
103	Halal and Kosher gelatin: Applications as well as detection approaches with challenges and prospects. <i>Food Bioscience</i> , 2021, 44, 101422.	4.4	19
104	TiO ₂ Nanotubes Supported Cu Nanoparticles for Improving Photocatalytic Degradation of Simazine under UV Illumination. <i>Catalysts</i> , 2016, 6, 167.	3.5	18
105	Static strength analysis of dragonfly inspired wings for biomimetic micro aerial vehicles. <i>Chinese Journal of Aeronautics</i> , 2016, 29, 411-423.	5.3	18
106	An alternative, practical, and ecological protocol for synthesis of arylidene analogues of Meldrum™s acid as useful intermediates. <i>Research on Chemical Intermediates</i> , 2019, 45, 3291-3300.	2.7	18
107	Drug Leaching Properties of Vancomycin Loaded Mesoporous Hydroxyapatite as Bone Substitutes. <i>Processes</i> , 2019, 7, 826.	2.8	18
108	Grafting of straight alkyl chain improved the hydrophobicity and tribological performance of graphene oxide in oil as lubricant. <i>Journal of Molecular Liquids</i> , 2020, 319, 114276.	4.9	18

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109	Phosphotungstic acid-Titania loaded polyaniline nanocomposite as efficient methanol electrooxidation catalyst in fuel cells. <i>International Journal of Energy Research</i> , 2021, 45, 8243-8254.	4.5	18
110	Role of mesoporous silica nanoparticles for the drug delivery applications. <i>Materials Research Express</i> , 2020, 7, 102002.	1.6	18
111	Effect of Nitric Acid Concentrations on Synthesis and Stability of Maghemite Nanoparticles Suspension. <i>Scientific World Journal</i> , The, 2014, 2014, 1-6.	2.1	17
112	Synthesis, characterisation and stability of superparamagnetic maghemite nanoparticle suspension. <i>Materials Research Innovations</i> , 2014, 18, S6-200-S6-203.	2.3	17
113	Physico-chemical studies of cuprous oxide (Cu ₂ O) nanoparticles coated on amorphous carbon nanotubes (±-CNTs). <i>Applied Surface Science</i> , 2014, 289, 450-454.	6.1	17
114	Effect of Synthesis Temperature on the Morphologies, Optical and Electrical Properties of MgO Nanostructures. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 2488-2494.	0.9	17
115	Hybrid nanocomposite of functionalized multiwall carbon nanotube, nitrogen doped graphene and chitosan with electrodeposited copper for the detection of anticancer drug nilutamide in tablet and biological samples. <i>Materials Chemistry and Physics</i> , 2020, 253, 123393.	4.0	17
116	Advanced photocatalytic degradation of acetaminophen using Cu ₂ O/WO ₃ /TiO ₂ ternary composite under solar irradiation. <i>Catalysis Communications</i> , 2022, 163, 106396.	3.3	17
117	Interfacial reactions between Sn-3.5 Ag solder and Ni-W alloy films. <i>Journal of Materials Science: Materials in Electronics</i> , 2011, 22, 1372-1377.	2.2	16
118	Optimization of neural network for ionic conductivity of nanocomposite solid polymer electrolyte system (PEO-LiPF ₆ -EC-CNT). <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012, 17, 329-340.	3.3	16
119	Annealing temperature effect on structural and optical investigations of Fe ₂ O ₃ nanostructure. <i>Journal of Materials Research and Technology</i> , 2019, 8, 2164-2169.	5.8	16
120	Synthesis, characterization and electrochemical properties of cadmium sulfide Reduced graphene oxide nanocomposites. <i>Results in Physics</i> , 2019, 12, 878-885.	4.1	16
121	4,4'-Trimethylenedipiperidine (TMDP): An Efficient Organocatalyst for the Mechanochemical Synthesis of Pyrano[4,3- <i>b</i>]pyrans under Solid-state Conditions. <i>Polycyclic Aromatic Compounds</i> , 2020, 40, 1606-1615.	2.6	16
122	Fabrication of amperometric sensor for glucose detection based on phosphotungstic acid-assisted PDPA/ZnO nanohybrid composite. <i>Ionics</i> , 2020, 26, 6341-6349.	2.4	16
123	Synthesis, characterization, and photocatalytic activity of PPy/SnO ₂ nanocomposite. <i>Chemical Physics Letters</i> , 2021, 783, 139051.	2.6	16
124	Highly effective removal of volatile organic pollutants with p-n heterojunction photoreduced graphene oxide-TiO ₂ photocatalyst. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107304.	6.7	16
125	Recent Application of the Various Nanomaterials and Nanocatalysts for the Heavy Metals™ Removal from Wastewater. <i>Nano</i> , 2018, 13, 1830006.	1.0	15
126	Facile synthesis of silver nanoparticles using Averrhoa bilimbi L and Plum extracts and investigation on the synergistic bioactivity using in vitro models. <i>Green Processing and Synthesis</i> , 2019, 8, 873-884.	3.4	15

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127	Effect of graphene infusion on morphology and performance of natural rubber latex/graphene composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 12888-12894.	2.2	15
128	Exploring E-Waste Resources Recovery in Household Solid Waste Recycling. <i>Processes</i> , 2020, 8, 1047.	2.8	15
129	Simple dispersion of graphene incorporated rubber composite for resistive pressure sensor application. <i>Polymer Engineering and Science</i> , 2021, 61, 1476-1484.	3.1	15
130	Quantum Size Effect in ZnO Nanoparticles via Mechanical Milling. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-4.	2.7	14
131	Ester of thiolated butylated hydroxytoluene: Potential antioxidant for synthetic lubricant oil. <i>Thermochimica Acta</i> , 2018, 670, 7-12.	2.7	14
132	Facile and greener hydrothermal honeycomb-based synthesis of Fe ₃ O ₄ /Au core/shell nanoparticles for drug delivery applications. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 6624-6631.	2.6	14
133	Exploration of gum ghatti-modified porous scaffolds for bone tissue engineering applications. <i>New Journal of Chemistry</i> , 2020, 44, 2389-2401.	2.8	14
134	Application of nitrogen-rich porous organic polymer for the solid-phase synthesis of 2-amino-4H-benzo[b]pyran scaffolds using ball milling process. <i>Molecular Diversity</i> , 2021, 25, 323-332.	3.9	14
135	Effect of Zirconium Oxide Nanofiller and Dibutyl Phthalate Plasticizer on Ionic Conductivity and Optical Properties of Solid Polymer Electrolyte. <i>Scientific World Journal</i> , The, 2014, 2014, 1-8.	2.1	13
136	Cu-Doped SnO ₂ Nanoparticles: Synthesis and Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 7139-7148.	0.9	13
137	Green one-pot multicomponent synthesis of pyrrolidinones using planetary ball milling process under solvent-free conditions. <i>Synthetic Communications</i> , 2019, 49, 1334-1342.	2.1	13
138	Mechanosynthesis of. <i>Australian Journal of Chemistry</i> , 2019, 72, 194-199.	0.9	13
139	Effect of Pressure, H ₂ /CO Ratio and Reduction Conditions on Co-Mn/CNT Bimetallic Catalyst Performance in Fischer-Tropsch Reaction. <i>Symmetry</i> , 2020, 12, 698.	2.2	13
140	One pot synthesis of hybrid ZnS-Graphene nanocomposite with enhanced photocatalytic activities using hydrothermal approach. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 9099-9107.	2.2	12
141	Tetraplex real-time PCR with TaqMan probes for discriminatory detection of cat, rabbit, rat and squirrel DNA in food products. <i>European Food Research and Technology</i> , 2019, 245, 2183-2194.	3.3	12
142	Influence of solution pH on the formation of iron oxide nanoparticles. <i>Materials Research Express</i> , 2019, 6, 015008.	1.6	12
143	Improved antimicrobial efficacy and photocatalytic performance of gold decorated titanium dioxide nanohybrid. <i>Optik</i> , 2020, 224, 165515.	2.9	12
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