

Rajesh Kumar

List of Publications by Year in descending order

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406
papers

15,127
citations

19657

61
h-index

25787

108
g-index

412
all docs

412
docs citations

412
times ranked

14698
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-chip microprocessor that communicates directly using light. <i>Nature</i> , 2015, 528, 534-538.	27.8	1,028
2	Graphene oxide: strategies for synthesis, reduction and frontier applications. <i>RSC Advances</i> , 2016, 6, 64993-65011.	3.6	428
3	Heteroatom doped graphene engineering for energy storage and conversion. <i>Materials Today</i> , 2020, 39, 47-65.	14.2	400
4	Recent progress in the synthesis of graphene and derived materials for next generation electrodes of high performance lithium ion batteries. <i>Progress in Energy and Combustion Science</i> , 2019, 75, 100786.	31.2	379
5	An ultra-small, low-power, all-optical flip-flop memory on a silicon chip. <i>Nature Photonics</i> , 2010, 4, 182-187.	31.4	369
6	Hypoxia-targeted drug delivery. <i>Chemical Society Reviews</i> , 2019, 48, 771-813.	38.1	350
7	A review on synthesis of graphene, h-BN and MoS ₂ for energy storage applications: Recent progress and perspectives. <i>Nano Research</i> , 2019, 12, 2655-2694.	10.4	283
8	Self-Assembled and One-Step Synthesis of Interconnected 3D Network of Fe ₃ O ₄ /Reduced Graphene Oxide Nanosheets Hybrid for High-Performance Supercapacitor Electrode. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8880-8890.	8.0	271
9	Recent advances in the synthesis and modification of carbon-based 2D materials for application in energy conversion and storage. <i>Progress in Energy and Combustion Science</i> , 2018, 67, 115-157.	31.2	271
10	Recent progress on carbon-based composite materials for microwave electromagnetic interference shielding. <i>Carbon</i> , 2021, 177, 304-331.	10.3	239
11	Laser-assisted synthesis, reduction and micro-patterning of graphene: Recent progress and applications. <i>Coordination Chemistry Reviews</i> , 2017, 342, 34-79.	18.8	230
12	A review on particle swarm optimization algorithms and their applications to data clustering. <i>Artificial Intelligence Review</i> , 2011, 35, 211-222.	15.7	223
13	Graphene oxide: An efficient material and recent approach for biotechnological and biomedical applications. <i>Materials Science and Engineering C</i> , 2018, 86, 173-197.	7.3	212
14	Real-Time Implementation of a Harmony Search Algorithm-Based Clustering Protocol for Energy-Efficient Wireless Sensor Networks. <i>IEEE Transactions on Industrial Informatics</i> , 2014, 10, 774-783.	11.3	183
15	Recent developments in human gait research: parameters, approaches, applications, machine learning techniques, datasets and challenges. <i>Artificial Intelligence Review</i> , 2018, 49, 1-40.	15.7	181
16	Natural and waste hydrocarbon precursors for the synthesis of carbon based nanomaterials: Graphene and CNTs. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 58, 976-1006.	16.4	179
17	An overview of recent progress in nanostructured carbon-based supercapacitor electrodes: From zero to bi-dimensional materials. <i>Carbon</i> , 2022, 193, 298-338.	10.3	168
18	Graphene-wrapped and cobalt oxide-intercalated hybrid for extremely durable super-capacitor with ultrahigh energy and power densities. <i>Carbon</i> , 2014, 79, 192-202.	10.3	166

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19	An Intelligent Tuned Harmony Search algorithm for optimisation. <i>Information Sciences</i> , 2012, 196, 47-72.	6.9	164
20	Self-Assembled Hierarchical Formation of Conjugated 3D Cobalt Oxide Nanobead@CNT@Graphene Nanostructure Using Microwaves for High-Performance Supercapacitor Electrode. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 15042-15051.	8.0	156
21	Microwave-assisted thin reduced graphene oxide-cobalt oxide nanoparticles as hybrids for electrode materials in supercapacitor. <i>Journal of Energy Storage</i> , 2021, 40, 102724.	8.1	137
22	Advances in pseudocapacitive and battery-like electrode materials for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13190-13240.	10.3	137
23	A hybrid multi-agent based particle swarm optimization algorithm for economic power dispatch. <i>International Journal of Electrical Power and Energy Systems</i> , 2011, 33, 115-123.	5.5	134
24	Economic analysis and power management of a stand-alone wind/photovoltaic hybrid energy system using biogeography based optimization algorithm. <i>Swarm and Evolutionary Computation</i> , 2013, 8, 33-43.	8.1	128
25	Laser processing of graphene and related materials for energy storage: State of the art and future prospects. <i>Progress in Energy and Combustion Science</i> , 2022, 91, 100981.	31.2	124
26	Effect of indium-doped SnO ₂ nanoparticles on NO ₂ gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2007, 126, 478-484.	7.8	123
27	Nanohole-Structured and Palladium-Embedded 3D Porous Graphene for Ultrahigh Hydrogen Storage and CO Oxidation Multifunctionalities. <i>ACS Nano</i> , 2015, 9, 7343-7351.	14.6	122
28	Cutting edge development on graphene derivatives modified by liquid crystal and CdS/TiO ₂ hybrid matrix: optoelectronics and biotechnological aspects. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2021, 46, 385-449.	12.3	117
29	Redesigning and characterizing the substrate specificity and activity of <i>Vibrio fluvialis</i> aminotransferase for the synthesis of imigabalin. <i>Protein Engineering, Design and Selection</i> , 2013, 26, 25-33.	2.1	113
30	Honeycomb-like open-edged reduced-graphene-oxide-enclosed transition metal oxides (NiO/Co ₃ O ₄) as improved electrode materials for high-performance supercapacitor. <i>Journal of Energy Storage</i> , 2020, 30, 101539.	8.1	112
31	Cascadable excitability in microrings. <i>Optics Express</i> , 2012, 20, 20292.	3.4	107
32	Synthesis, Characterization, and Tribological Evaluation of TiO ₂ -Reinforced Boron and Nitrogen co-Doped Reduced Graphene Oxide Based Hybrid Nanomaterials as Efficient Antiwear Lubricant Additives. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11698-11710.	8.0	104
33	A review on the current research on microwave processing techniques applied to graphene-based supercapacitor electrodes: An emerging approach beyond conventional heating. <i>Journal of Energy Chemistry</i> , 2022, 74, 252-282.	12.9	104
34	Microwave-assisted synthesis of Mn ₃ O ₄ -Fe ₂ O ₃ /Fe ₃ O ₄ @rGO ternary hybrids and electrochemical performance for supercapacitor electrode. <i>Diamond and Related Materials</i> , 2020, 101, 107622.	3.9	102
35	A 45 nm CMOS-SOI Monolithic Photonics Platform With Bit-Statistics-Based Resonant Microring Thermal Tuning. <i>IEEE Journal of Solid-State Circuits</i> , 2016, 51, 893-907.	5.4	99
36	Nitrogen@Sulfur Co-Doped Reduced Graphene Oxide-Nickel Oxide Nanoparticle Composites for Electromagnetic Interference Shielding. <i>ACS Applied Nano Materials</i> , 2019, 2, 4626-4636.	5.0	94

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37	Facile in-situ simultaneous electrochemical reduction and deposition of reduced graphene oxide embedded palladium nanoparticles as high performance electrode materials for supercapacitor with excellent rate capability. <i>Electrochimica Acta</i> , 2019, 314, 124-134.	5.2	93
38	A review of the microwave-assisted synthesis of carbon nanomaterials, metal oxides/hydroxides and their composites for energy storage applications. <i>Nanoscale</i> , 2021, 13, 11679-11711.	5.6	93
39	Microwave-assisted synthesis of palladium nanoparticles intercalated nitrogen doped reduced graphene oxide and their electrocatalytic activity for direct-ethanol fuel cells. <i>Journal of Colloid and Interface Science</i> , 2018, 515, 160-171.	9.4	91
40	Microwave-assisted synthesis of void-induced graphene-wrapped nickel oxide hybrids for supercapacitor applications. <i>RSC Advances</i> , 2016, 6, 26612-26620.	3.6	90
41	Microwave as a Tool for Synthesis of Carbon-Based Electrodes for Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 20306-20325.	8.0	90
42	Electric Vehicle Scheduling Strategy in Residential Demand Response Programs With Neighbor Connection. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 980-988.	11.3	89
43	Self-assembled nanostructures of 3D hierarchical faceted-iron oxide containing vertical carbon nanotubes on reduced graphene oxide hybrids for enhanced electromagnetic interface shielding. <i>Composites Part B: Engineering</i> , 2019, 168, 66-76.	12.0	88
44	Rapid and controllable synthesis of Fe ₃ O ₄ octahedral nanocrystals embedded-reduced graphene oxide using microwave irradiation for high performance lithium-ion batteries. <i>Electrochimica Acta</i> , 2018, 281, 78-87.	5.2	87
45	Identification of Novel Bacterial Members of the Imine Reductase Enzyme Family that Perform Reductive Amination. <i>ChemCatChem</i> , 2018, 10, 510-514.	3.7	86
46	Facile and fast microwave-assisted formation of reduced graphene oxide-wrapped manganese cobaltite ternary hybrids as improved supercapacitor electrode material. <i>Applied Surface Science</i> , 2019, 481, 296-306.	6.1	86
47	Freestanding 3D Graphene-Nickel Encapsulated Nitrogen-Rich Aligned Bamboo Like Carbon Nanotubes for High-Performance Supercapacitors with Robust Cycle Stability. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500191.	3.7	82
48	Fabrication and electrochemical evaluation of micro-supercapacitors prepared by direct laser writing on free-standing graphite oxide paper. <i>Energy</i> , 2019, 179, 676-684.	8.8	82
49	Fabrication of interdigitated micro-supercapacitor devices by direct laser writing onto ultra-thin, flexible and free-standing graphite oxide films. <i>RSC Advances</i> , 2016, 6, 84769-84776.	3.6	77
50	Stability and vibration analysis of CNT-Reinforced functionally graded laminated composite cylindrical shell panels using semi-analytical approach. <i>Composites Part B: Engineering</i> , 2019, 168, 1-14.	12.0	77
51	Economic Analysis and Power Management of a Small Autonomous Hybrid Power System (SAHPS) Using Biogeography Based Optimization (BBO) Algorithm. <i>IEEE Transactions on Smart Grid</i> , 2013, 4, 638-648.	9.0	76
52	Nanophotonic Devices for Optical Interconnect. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 1363-1375.	2.9	72
53	Direct laser writing of micro-supercapacitors on thick graphite oxide films and their electrochemical properties in different liquid inorganic electrolytes. <i>Journal of Colloid and Interface Science</i> , 2017, 507, 271-278.	9.4	72
54	Binary whale optimization algorithm: a new metaheuristic approach for profit-based unit commitment problems in competitive electricity markets. <i>Engineering Optimization</i> , 2019, 51, 369-389.	2.6	72

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55	Gold nanoparticles: New routes across old boundaries. <i>Advances in Colloid and Interface Science</i> , 2019, 274, 102037.	14.7	72
56	Hydrogen gas sensing properties of microwave-assisted 2D Hybrid Pd/rGO: Effect of temperature, humidity and UV illumination. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 7653-7665.	7.1	71
57	Synthesis of nano-carbon (nanotubes, nanofibres, graphene) materials. <i>Bulletin of Materials Science</i> , 2011, 34, 607-614.	1.7	70
58	Multi-objective synergistic planning of EV fast-charging stations in the distribution system coupled with the transportation network. <i>IET Generation, Transmission and Distribution</i> , 2019, 13, 3421-3432.	2.5	70
59	Green and recyclable glycine nitrate (GlyNO ₃) ionic liquid triggered multicomponent Biginelli reaction for the efficient synthesis of dihydropyrimidinones. <i>RSC Advances</i> , 2012, 2, 10648.	3.6	68
60	Heteroatom doping of 2D graphene materials for electromagnetic interference shielding: a review of recent progress. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2022, 47, 570-619.	12.3	68
61	Facile and single step synthesis of three dimensional reduced graphene oxide-NiCoO ₂ composite using microwave for enhanced electron field emission properties. <i>Applied Surface Science</i> , 2017, 416, 259-265.	6.1	67
62	Nanocomposite matrix conjugated with carbon nanomaterials for photocatalytic wastewater treatment. <i>Journal of Hazardous Materials</i> , 2021, 410, 124657.	12.4	66
63	Scalable synthesis of aligned carbon nanotubes bundles using green natural precursor: neem oil. <i>Nanoscale Research Letters</i> , 2011, 6, 92.	5.7	65
64	An ionic liquid-assisted method for splitting carbon nanotubes to produce graphene nano-ribbons by microwave radiation. <i>Carbon</i> , 2013, 53, 391-398.	10.3	65
65	Controlled density of defects assisted perforated structure in reduced graphene oxide nanosheets-palladium hybrids for enhanced ethanol electro-oxidation. <i>Carbon</i> , 2017, 117, 137-146.	10.3	65
66	Biocatalytic Routes to Enantiomerically Enriched Dibenz[<i>c</i>], [i]azepines. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15589-15593.	13.8	62
67	Lipoxin A ₄ is a novel estrogen receptor modulator. <i>FASEB Journal</i> , 2011, 25, 4326-4337.	0.5	61
68	Microwave-assisted synthesis and deposition of a thin ZnO layer on microwave-exfoliated graphene: optical and electrochemical evaluations. <i>RSC Advances</i> , 2015, 5, 67988-67995.	3.6	61
69	Hydrothermal synthesis of a uniformly dispersed hybrid graphene-TiO ₂ nanostructure for optical and enhanced electrochemical applications. <i>RSC Advances</i> , 2015, 5, 7112-7120.	3.6	60
70	Thiol-ene Click-Reaction Triggered by Neutral Ionic Liquid: The Amphiphilic Character of [hmim]Br in the Regioselective Nucleophilic Hydrothiolation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 828-832.	13.8	60
71	Electrochemical deposition of uniform and porous Co-Ni layered double hydroxide nanosheets on nickel foam for supercapacitor electrode with improved electrochemical efficiency. <i>Journal of Energy Storage</i> , 2022, 50, 104638.	8.1	59
72	Catalyst-free synthesis of a three-dimensional nanoworm-like gallium oxide-graphene nanosheet hybrid structure with enhanced optical properties. <i>RSC Advances</i> , 2016, 6, 17669-17677.	3.6	58

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73	Biocatalytic reductive amination from discovery to commercial manufacturing applied to abrocitinib JAK1 inhibitor. <i>Nature Catalysis</i> , 2021, 4, 775-782.	34.4	58
74	Wavelength-selective 2 nd - nd optical switch based on a Ge ₂ Sb ₂ Te ₅ -assisted microring. <i>Photonics Research</i> , 2020, 8, 1171.	7.0	58
75	Biocatalytic Promiscuity of Lipase in Chemoselective Oxidation of Aryl Alcohols/Acetates: A Unique Synergism of CAL-B and [hmim]Br for the Metal-Free H ₂ O ₂ Activation. <i>Organic Letters</i> , 2009, 11, 4846-4848.	4.6	57
76	Simultaneous reduction and covalent grafting of polythiophene on graphene oxide sheets for excellent capacitance retention. <i>RSC Advances</i> , 2016, 6, 52945-52949.	3.6	57
77	Synthesis of self-assembled and hierarchical palladium-CNTs-reduced graphene oxide composites for enhanced field emission properties. <i>Materials and Design</i> , 2017, 122, 110-117.	7.0	57
78	Synthesis, characterization and optical properties of graphene sheets-ZnO multipod nanocomposites. <i>Journal of Alloys and Compounds</i> , 2012, 526, 129-134.	5.5	55
79	Pressure-dependent synthesis of high-quality few-layer graphene by plasma-enhanced arc discharge and their thermal stability. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	55
80	Microwave heating time dependent synthesis of various dimensional graphene oxide supported hierarchical ZnO nanostructures and its photoluminescence studies. <i>Materials and Design</i> , 2016, 111, 291-300.	7.0	52
81	Multiaggregator Collaborative Electric Vehicle Charge Scheduling Under Variable Energy Purchase and EV Cancellation Events. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 2894-2902.	11.3	52
82	Large scale synthesis of bundles of aligned carbon nanotubes using a natural precursor: turpentine oil. <i>Journal of Experimental Nanoscience</i> , 2010, 5, 498-508.	2.4	51
83	Current status and experimental investigation of oxy-fired fluidized bed. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 61, 398-420.	16.4	51
84	Synthesis of mesoporous Co(OH) ₂ nanostructure film via electrochemical deposition using lyotropic liquid crystal template as improved electrode materials for supercapacitors application. <i>Journal of Electroanalytical Chemistry</i> , 2020, 857, 113728.	3.8	51
85	A novel multi-objective directed bee colony optimization algorithm for multi-objective emission constrained economic power dispatch. <i>International Journal of Electrical Power and Energy Systems</i> , 2012, 43, 1241-1250.	5.5	50
86	Biocatalysts for multicomponent Biginelli reaction: bovine serum albumin triggered waste-free synthesis of 3,4-dihydropyrimidin-2-(1H)-ones. <i>Amino Acids</i> , 2013, 44, 1031-1037.	2.7	49
87	Functionalized Pd-decorated and aligned MWCNTs in polycarbonate as a selective membrane for hydrogen separation. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 23057-23066.	7.1	49
88	Superior performance of Ni(OH) ₂ -ErGO@ NF electrode materials as pseudocapacitance using electrochemical deposition via two simple successive steps. <i>Journal of Energy Storage</i> , 2020, 30, 101485.	8.1	49
89	Metal/metal oxide nanoparticles: Toxicity concerns associated with their physical state and remediation for biomedical applications. <i>Toxicology Reports</i> , 2021, 8, 1970-1978.	3.3	48
90	Design, economical synthesis and antiplasmodial evaluation of vanillin derived allylated chalcones and their marked synergism with artemisinin against chloroquine resistant strains of <i>Plasmodium falciparum</i> . <i>European Journal of Medicinal Chemistry</i> , 2014, 79, 350-368.	5.5	47

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91	One-pot synthesis of reduced graphene oxide nanosheets anchored ZnO nanoparticles via microwave approach for electrochemical performance as supercapacitor electrode. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 15456-15465.	2.2	47
92	Surface modification of aligned TiO ₂ nanotubes by Cu ₂ O nanoparticles and their enhanced photo electrochemical properties and hydrogen generation application. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 6867-6878.	7.1	46
93	Single Cell Metabolomics: A Future Tool to Unmask Cellular Heterogeneity and Virus-Host Interaction in Context of Emerging Viral Diseases. <i>Frontiers in Microbiology</i> , 2020, 11, 1152.	3.5	46
94	First Bovine Serum Albumin-Promoted Synthesis of Enones, Cinnamic Acids and Coumarins in Ionic Liquid: An Insight into the Role of Protein Impurities in Porcine Pancreas Lipase for Olefinic Bond Formation. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 871-878.	4.3	45
95	Modified apple polysaccharide capped gold nanoparticles for oral delivery of insulin. <i>International Journal of Biological Macromolecules</i> , 2020, 149, 976-988.	7.5	45
96	<i>In situ</i> growth of laser-induced graphene micro-patterns on arbitrary substrates. <i>Nanoscale</i> , 2022, 14, 8914-8918.	5.6	44
97	An Improved Harmony Search algorithm for optimal scheduling of the diesel generators in oil rig platforms. <i>Energy Conversion and Management</i> , 2011, 52, 893-902.	9.2	43
98	Mito-TEMPO, a mitochondria-targeted antioxidant, prevents N-nitrosodiethylamine-induced hepatocarcinogenesis in mice. <i>Free Radical Biology and Medicine</i> , 2019, 136, 76-86.	2.9	43
99	Growth analysis and high-yield synthesis of aligned-stacked branched nitrogen-doped carbon nanotubes using sesame oil as a natural botanical hydrocarbon precursor. <i>Materials and Design</i> , 2016, 94, 166-175.	7.0	42
100	Multi agent system: concepts, platforms and applications in power systems. <i>Artificial Intelligence Review</i> , 2018, 49, 153-182.	15.7	40
101	Simple and Fast Approach for Synthesis of Reduced Graphene Oxide-MoS ₂ Hybrids for Room Temperature Gas Detection. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 3943-3949.	3.0	40
102	Profiling of urinary proteins in Karan Fries cows reveals more than 1550 proteins. <i>Journal of Proteomics</i> , 2015, 127, 193-201.	2.4	39
103	Forced nonlinear vibrations of circular cylindrical sandwich shells with cellular core using higher-order shear and thickness deformation theory. <i>Journal of Sound and Vibration</i> , 2021, 510, 116283.	3.9	39
104	Tandem Heck/Decarboxylation/Heck Strategy: Protecting-Group-Free Synthesis of Symmetric and Unsymmetric Hydroxylated Stilbenoids. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12250-12253.	13.8	38
105	Notch Antagonists: Potential Modulators of Cancer and Inflammatory Diseases. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 7719-7737.	6.4	38
106	Lipoxin A4 Prevents the Progression of De Novo and Established Endometriosis in a Mouse Model by Attenuating Prostaglandin E ₂ Production and Estrogen Signaling. <i>PLoS ONE</i> , 2014, 9, e89742.	2.5	38
107	A simple novel mix design method and properties assessment of foamed concretes with limestone slurry waste. <i>Journal of Cleaner Production</i> , 2018, 171, 1650-1663.	9.3	37
108	Synthesis of reduced graphene oxide nanosheet-supported agglomerated cobalt oxide nanoparticles and their enhanced electron field emission properties. <i>New Journal of Chemistry</i> , 2017, 41, 8431-8436.	2.8	36

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109	Enhanced magnetic performance of iron oxide nanoparticles anchored pristine/ N-doped multi-walled carbon nanotubes by microwave-assisted approach. <i>Journal of Alloys and Compounds</i> , 2017, 695, 1793-1801.	5.5	36
110	Nanotechnology in Colorectal Cancer for Precision Diagnosis and Therapy. <i>Frontiers in Nanotechnology</i> , 2021, 3, .	4.8	36
111	Two-dimensional layered molybdenum disulfide (MoS ₂)-reduced graphene oxide (rGO) heterostructures modified with Fe ₃ O ₄ for electrochemical sensing of epinephrine. <i>Materials Chemistry and Physics</i> , 2022, 287, 126274.	4.0	35
112	Development of nanocolloidal gold based immunochromatographic assay for rapid detection of transgenic vegetative insecticidal protein in genetically modified crops. <i>Food Chemistry</i> , 2010, 122, 1298-1303.	8.2	34
113	Comparison study on the sulfate attack resistivity of cement-based materials modified with nanoSiO ₂ and normal SCMs: Pore structure and phase composition. <i>Construction and Building Materials</i> , 2019, 228, 116764.	7.2	34
114	Efficacy of co-administration of modified apple polysaccharide and probiotics in guar gum-Eudragit S100 based mesalamine mini tablets: A novel approach in treating ulcerative colitis. <i>International Journal of Biological Macromolecules</i> , 2019, 126, 427-435.	7.5	34
115	Mechanical pressure induced chemical cutting of boron nitride sheets into boron nitride quantum dots and optical properties. <i>Journal of Alloys and Compounds</i> , 2016, 683, 38-45.	5.5	33
116	Effects of high volume dolomite sludge on the properties of eco-efficient lightweight concrete: Microstructure, statistical modeling, multi-attribute optimization through Derringer's desirability function, and life cycle assessment. <i>Journal of Cleaner Production</i> , 2021, 307, 127107.	9.3	33
117	Corona health-care warriors in India: knowledge, attitude, and practices during COVID-19 outbreak. <i>Journal of Education and Health Promotion</i> , 2021, 10, 44.	0.6	32
118	Fabrication and optoelectronic characterisation of ZnO photonic structures. <i>Materials Letters</i> , 2008, 62, 1183-1186.	2.6	31
119	Artificial intelligence applications in Permanent Magnet Brushless DC motor drives. <i>Artificial Intelligence Review</i> , 2010, 33, 175-186.	15.7	31
120	URANS computations with buoyancy corrected turbulence models for turbulent thermal plume. <i>International Journal of Heat and Mass Transfer</i> , 2014, 72, 680-689.	4.8	31
121	An investigation of co-combustion municipal sewage sludge with biomass in a 20 kW BFB combustor under air-fired and oxygen-enriched condition. <i>Waste Management</i> , 2017, 70, 114-126.	7.4	31
122	A strategical game theoretic based demand response model for residential consumers in a fair environment. <i>International Journal of Electrical Power and Energy Systems</i> , 2018, 97, 201-210.	5.5	31
123	An investigation in 20 kWth oxygen-enriched bubbling fluidized bed combustor using coal and biomass. <i>Fuel Processing Technology</i> , 2016, 148, 256-268.	7.2	30
124	Linear and non-linear dynamic instability of functionally graded plate subjected to non-uniform loading. <i>Composite Structures</i> , 2016, 154, 219-230.	5.8	29
125	Facile synthesis of highly fluorescent free-standing films comprising graphitic carbon nitride (g-C ₃ N ₄) nanolayers. <i>New Journal of Chemistry</i> , 2020, 44, 2644-2651.	2.8	29
126	Coadministration of Polypeptide-k and Curcumin Through Solid Self-Nanoemulsifying Drug Delivery System for Better Therapeutic Effect Against Diabetes Mellitus: Formulation, Optimization, Biopharmaceutical Characterization, and Pharmacodynamic Assessment. <i>Assay and Drug Development Technologies</i> , 2019, 17, 201-221.	1.2	28

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127	Microwave-assisted facile synthesis of layered reduced graphene oxide-tungsten disulfide sandwiched Fe ₃ O ₄ nanocomposite as effective and sensitive sensor for detection of dopamine. <i>Materials Chemistry and Physics</i> , 2022, 287, 126283.	4.0	28
128	Optimization of hybrid PV/wind energy system using Meta Particle Swarm Optimization (MPSO). , 2011, , .		27
129	75% efficient wide bandwidth grating couplers in a 45 nm microelectronics CMOS process. , 2015, , .		27
130	First Metal- and Base-Free Selective Oxidative Coupling of Thiols in Neat Ionic Liquids: NMR Probed -Ambiphilic-Character of Neutral [hmim]Br towards Atom-Efficient Synthesis of Disulfides. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 2107-2112.	4.3	26
131	A Hybrid WD-EEMD sEMG Feature Extraction Technique for Lower Limb Activity Recognition. <i>IEEE Sensors Journal</i> , 2021, 21, 20431-20439.	4.7	26
132	Clean and Efficient Synthesis of Graphene Nanosheets and Rectangular Aligned-Carbon Nanotubes Bundles Using Green Botanical Hydrocarbon Precursor: Sesame Oil. <i>Science of Advanced Materials</i> , 2014, 6, 76-83.	0.7	26
133	A new hybrid multi-agent-based particle swarm optimisation technique. <i>International Journal of Bio-Inspired Computation</i> , 2009, 1, 259.	0.9	25
134	Multicomponent diversity-oriented synthesis of symmetrical and unsymmetrical 1,4-dihydropyridines in recyclable glycine nitrate (GlyNO ₃) ionic liquid: a mechanistic insight using Q-TOF, ESI-MS/MS. <i>RSC Advances</i> , 2014, 4, 19111-19121.	3.6	25
135	Modified mix design and statistical modelling of lightweight concrete with high volume micro fines waste additive via the Box-Behnken design approach. <i>Cement and Concrete Composites</i> , 2020, 113, 103706.	10.7	25
136	Hematological profile and biochemical markers of COVID-19 non-survivors: A retrospective analysis. <i>Clinical Epidemiology and Global Health</i> , 2021, 11, 100770.	1.9	25
137	Identification and Control of PMSM Using Artificial Neural Network. , 2007, , .		24
138	Palladium nanoparticle binding in functionalized track etched PET membrane for hydrogen gas separation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 16186-16194.	7.1	24
139	Development and application of Quantum Entanglement inspired Particle Swarm Optimization. <i>Knowledge-Based Systems</i> , 2021, 219, 106859.	7.1	24
140	A comprehensive study on the influence of supplementary cementitious materials on physico-mechanical, microstructural and durability properties of low carbon cement composites. <i>Powder Technology</i> , 2021, 394, 645-668.	4.2	24
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