

Rajender S Varma

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2265825/rajender-s-varma-publications-by-citations.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

217
papers

7,183
citations

47
h-index

73
g-index

236
ext. papers

10,250
ext. citations

7.6
avg, IF

7.34
L-index

#	Paper	IF	Citations
217	Selectivity Enhancement in Heterogeneous Photocatalytic Transformations. <i>Chemical Reviews</i> , 2017 , 117, 1445-1514	68.1	470
216	Recent advances in the SuzukiMiyaura cross-coupling reaction using efficient catalysts in eco-friendly media. <i>Green Chemistry</i> , 2019 , 21, 381-405	10	220
215	Greener synthesis of lignin nanoparticles and their applications. <i>Green Chemistry</i> , 2020 , 22, 612-636	10	169
214	Recent development of covalent organic frameworks (COFs): synthesis and catalytic (organic-electro-photo) applications. <i>Materials Horizons</i> , 2020 , 7, 411-454	14.4	153
213	Biomass-Derived Renewable Carbonaceous Materials for Sustainable Chemical and Environmental Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 6458-6470	8.3	137
212	Lignocellulosic Biomass Transformations via Greener Oxidative Pretreatment Processes: Access to Energy and Value-Added Chemicals. <i>Frontiers in Chemistry</i> , 2018 , 6, 141	5	137
211	Green synthesis, biomedical and biotechnological applications of carbon and graphene quantum dots. A review. <i>Environmental Chemistry Letters</i> , 2020 , 18, 1-25	13.3	136
210	Health Concerns of Various Nanoparticles: A Review of Their in Vitro and in Vivo Toxicity. <i>Nanomaterials</i> , 2018 , 8,	5.4	131
209	Magnetically retrievable nanocomposite adorned with Pd nanocatalysts: efficient reduction of nitroaromatics in aqueous media. <i>Green Chemistry</i> , 2018 , 20, 3809-3817	10	119
208	Recent Advances in the Nanocatalysts-assisted NaBH Reduction of Nitroaromatics in water. <i>ACS Omega</i> , 2019 , 4, 483-495	3.9	119
207	Sustainable hybrid photocatalysts: titania immobilized on carbon materials derived from renewable and biodegradable resources. <i>Green Chemistry</i> , 2016 , 18,	10	112
206	Applications of green synthesized Ag, ZnO and Ag/ZnO nanoparticles for making clinical antimicrobial wound-healing bandages. <i>Sustainable Chemistry and Pharmacy</i> , 2018 , 10, 9-15	3.9	111
205	Palladium Nanoparticles on Assorted Nanostructured Supports: Applications for Suzuki, Heck, and Sonogashira Cross-Coupling Reactions. <i>ACS Applied Nano Materials</i> , 2020 , 3, 2070-2103	5.6	109
204	Magnetic chitosan-copper nanocomposite: A plant assembled catalyst for the synthesis of amino- and N-sulfonyl tetrazoles in eco-friendly media. <i>Carbohydrate Polymers</i> , 2020 , 232, 115819	10.3	102
203	MXenes and ultrasonication. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10843-10857	13	101
202	Advanced Metal Matrix Nanocomposites. <i>Metals</i> , 2019 , 9, 330	2.3	96
201	Core@shell Nanoparticles: Greener Synthesis Using Natural Plant Products. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 411	2.6	91

200	Formation and stabilization of colloidal ultra-small palladium nanoparticles on diamine-modified Cr-MIL-101: Synergic boost to hydrogen production from formic acid. <i>Journal of Colloid and Interface Science</i> , 2020 , 567, 126-135	9.3	88
199	Selective photocatalysis of lignin-inspired chemicals by integrating hybrid nanocatalysis in microfluidic reactors. <i>Chemical Society Reviews</i> , 2017 , 46, 6675-6686	58.5	84
198	Tree gum-based renewable materials: Sustainable applications in nanotechnology, biomedical and environmental fields. <i>Biotechnology Advances</i> , 2018 , 36, 1984-2016	17.8	83
197	Plants and plant-based polymers as scaffolds for tissue engineering. <i>Green Chemistry</i> , 2019 , 21, 4839-4867	6.7	80
196	Recent developments in palladium (nano)catalysts supported on polymers for selective and sustainable oxidation processes. <i>Coordination Chemistry Reviews</i> , 2019 , 397, 54-75	23.2	77
195	Mixed-Valence Single-Atom Catalyst Derived from Functionalized Graphene. <i>Advanced Materials</i> , 2019 , 31, e1900323	24	76
194	Nanomaterials and Nanotechnology-Associated Innovations against Viral Infections with a Focus on Coronaviruses. <i>Nanomaterials</i> , 2020 , 10,	5.4	76
193	Plant molecular farming: production of metallic nanoparticles and therapeutic proteins using green factories. <i>Green Chemistry</i> , 2019 , 21, 1845-1865	10	75
192	Sustainable Utility of Magnetically Recyclable Nano-Catalysts in Water: Applications in Organic Synthesis. <i>Applied Sciences (Switzerland)</i> , 2013 , 3, 656-674	2.6	74
191	Deep eutectic solvents: cutting-edge applications in cross-coupling reactions. <i>Green Chemistry</i> , 2020 , 22, 3668-3692	10	68
190	One-pot green synthesis of bimetallic hollow palladium-platinum nanotubes for enhanced catalytic reduction of p-nitrophenol. <i>Journal of Colloid and Interface Science</i> , 2019 , 539, 161-167	9.3	66
189	Greener and size-specific synthesis of stable Fe-Cu oxides as earth-abundant adsorbents for malachite green. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 9229-9236	8.3	63
188	Iron and Iron Oxide Nanoparticles Synthesized Using Green Tea Extract: Improved Ecotoxicological Profile and Ability to Degrade Malachite Green. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 8679-8687	8.3	62
187	Upgraded Valorization of Biowaste: Laser-Assisted Synthesis of Pd/Calcium Lignosulfonate Nanocomposite for Hydrogen Storage and Environmental Remediation. <i>ACS Omega</i> , 2020 , 5, 5888-5899	3.9	61
186	Point-of-Use Rapid Detection of SARS-CoV-2: Nanotechnology-Enabled Solutions for the COVID-19 Pandemic. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	61
185	Hydroxylation of Benzene C-H Activation Using Bimetallic CuAg@g-CN. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 3637-3640	8.3	60
184	Sustainable pathway to furanics from biomass via heterogeneous organo-catalysis. <i>Green Chemistry</i> , 2017 , 19, 164-168	10	60
183	Copper oxide-graphene oxide nanocomposite: efficient catalyst for hydrogenation of nitroaromatics in water. <i>Nano Convergence</i> , 2019 , 6, 6	9.2	59

182	Plant-Derived Edible Nanoparticles and miRNAs: Emerging Frontier for Therapeutics and Targeted Drug-Delivery. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 8055-8069	8.3	59
181	MXenes: Applications in electrocatalytic, photocatalytic hydrogen evolution reaction and CO ₂ reduction. <i>Molecular Catalysis</i> , 2020 , 486, 110850	3.3	57
180	Recent Electrochemical Applications of Metal-Organic Framework-Based Materials. <i>Crystal Growth and Design</i> , 2020 , 20, 7034-7064	3.5	57
179	Palladium Nanocatalysts on Hydroxyapatite: Green Oxidation of Alcohols and Reduction of Nitroarenes in Water. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4183	2.6	55
178	Recent Developments in Polymer Nanocomposite-Based Electrochemical Sensors for Detecting Environmental Pollutants.. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 1112-1136	3.9	55
177	Mechanotribological Aspects of MXene-Reinforced Nanocomposites. <i>Advanced Materials</i> , 2020 , 32, e2003154	3.4	54
176	In Situ Generation of Pd-Pt Core-Shell Nanoparticles on Reduced Graphene Oxide (Pd@Pt/rGO) Using Microwaves: Applications in Dehalogenation Reactions and Reduction of Olefins. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 2815-2824	9.5	53
175	Stainless steel mesh-GO/Pd NPs: catalytic applications of Suzuki-Miyaura and Stille coupling reactions in eco-friendly media. <i>Green Chemistry</i> , 2019 , 21, 3319-3327	10	53
174	Laser-assisted preparation of Pd nanoparticles on carbon cloth for the degradation of environmental pollutants in aqueous medium. <i>Chemosphere</i> , 2020 , 246, 125755	8.4	49
173	Titanium-based zeolitic imidazolate framework for chemical fixation of carbon dioxide. <i>Green Chemistry</i> , 2016 , 18, 4855-4858	10	49
172	Sustainable synthesis of cobalt and cobalt oxide nanoparticles and their catalytic and biomedical applications. <i>Green Chemistry</i> , 2020 , 22, 2643-2661	10	47
171	Magnetic ZSM-5 zeolite: a selective catalyst for the valorization of furfuryl alcohol to Valerolactone, alkyl levulinates or levulinic acid. <i>Green Chemistry</i> , 2016 , 18, 5586-5593	10	47
170	Extended Metal-Organic Frameworks on Diverse Supports as Electrode Nanomaterials for Electrochemical Energy Storage. <i>ACS Applied Nano Materials</i> , 2020 , 3, 3964-3990	5.6	46
169	Magnetic Lignosulfonate-Supported Pd Complex: Renewable Resource-Derived Catalyst for Aqueous Suzuki-Miyaura Reaction. <i>ACS Omega</i> , 2019 , 4, 14234-14241	3.9	44
168	Covalent Organic Frameworks: Emerging Organic Solid Materials for Energy and Electrochemical Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 27821-27852	9.5	44
167	Bacteria in Heavy Metal Remediation and Nanoparticle Biosynthesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 5395-5409	8.3	44
166	Biofactories: engineered nanoparticles via genetically engineered organisms. <i>Green Chemistry</i> , 2019 , 21, 4583-4603	10	42
165	Biomedical application of chitosan-based nanoscale delivery systems: Potential usefulness in siRNA delivery for cancer therapy. <i>Carbohydrate Polymers</i> , 2021 , 260, 117809	10.3	42

164	+Iron hexacyanocobaltate metal-organic framework: Highly reversible and stationary electrode material with rich borders for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 791, 911-917	5.7	41
163	Electrocatalytic Water Splitting and CO ₂ Reduction: Sustainable Solutions via Single-Atom Catalysts Supported on 2D Materials. <i>Small Methods</i> , 2019 , 3, 1800492	12.8	41
162	Mainstream avenues for boosting graphitic carbon nitride efficiency: towards enhanced solar light-driven photocatalytic hydrogen production and environmental remediation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 10571-10603	13	38
161	Co-constructive development of a green chemistry-based model for the assessment of nanoparticles synthesis. <i>European Journal of Operational Research</i> , 2018 , 264, 472-490	5.6	38
160	Ultrasound and microwave irradiation: contributions of alternative physicochemical activation methods to Green Chemistry. <i>Green Chemistry</i> , 2019 , 21, 6043-6050	10	38
159	Applications of nano-materials in diverse dentistry regimes.. <i>RSC Advances</i> , 2020 , 10, 15430-15460	3.7	38
158	Magnetic Mg _{0.5} Zn _{0.5} FeMnO ₄ nanoparticles: Green sol-gel synthesis, characterization, and photocatalytic applications. <i>Journal of Cleaner Production</i> , 2021 , 288, 125632	10.3	36
157	Sustainable Strategy Utilizing Biomass: Visible-Light-Mediated Synthesis of Valerolactone. <i>ChemCatChem</i> , 2016 , 8, 690-693	5.2	35
156	Cobalt-entrenched N-, O-, and S-tridoped carbons as efficient multifunctional sustainable catalysts for base-free selective oxidative esterification of alcohols. <i>Green Chemistry</i> , 2018 , 20, 3542-3556	10	35
155	Engineering graphitic carbon nitride (g-C ₃ N ₄) for catalytic reduction of CO ₂ to fuels and chemicals: strategy and mechanism. <i>Green Chemistry</i> , 2021 , 23, 5394-5428	10	35
154	A sustainable approach to empower the bio-based future: upgrading of biomass process intensification. <i>Green Chemistry</i> , 2017 , 19, 1624-1627	10	34
153	Porous nitrogen-enriched carbonaceous material from marine waste: chitosan-derived carbon nitride catalyst for aerial oxidation of 5-hydroxymethylfurfural (HMF) to 2,5-furandicarboxylic acid. <i>Scientific Reports</i> , 2017 , 7, 13596	4.9	34
152	Boosting Aerobic Oxidation of Alcohols via Synergistic Effect between TEMPO and a Composite FeO/Cu-BDC/GO Nanocatalyst. <i>ACS Omega</i> , 2020 , 5, 5182-5191	3.9	33
151	Photo-Fenton like Catalyst System: Activated Carbon/CoFe ₂ O ₄ Nanocomposite for Reactive Dye Removal from Textile Wastewater. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 963	2.6	32
150	Developments and applications of nanomaterial-based carbon paste electrodes.. <i>RSC Advances</i> , 2020 , 10, 21561-21581	3.7	32
149	Photocatalytic C-H Activation and Oxidative Esterification Using Pd@g-CN. <i>Catalysis Today</i> , 2018 , 309, 248-252	5.3	32
148	Recent advances in N-formylation of amines and nitroarenes using efficient (nano)catalysts in eco-friendly media. <i>Green Chemistry</i> , 2019 , 21, 5144-5167	10	32
147	Synthesis of flower-like magnetite nanoassembly: Application in the efficient reduction of nitroarenes. <i>Scientific Reports</i> , 2017 , 7, 11585	4.9	32

146	Significant Enhancement of Photoactivity in Hybrid TiO ₂ /g-C ₃ N ₄ Nanorod Catalysts Modified with Cu ^{II} -Based Nanostructures. <i>ACS Applied Nano Materials</i> , 2018 , 1, 2526-2535	5.6	31
145	Toxicity and remediation of pharmaceuticals and pesticides using metal oxides and carbon nanomaterials. <i>Chemosphere</i> , 2021 , 275, 130055	8.4	31
144	Cockroach wings-promoted safe and greener synthesis of silver nanoparticles and their insecticidal activity. <i>Bioprocess and Biosystems Engineering</i> , 2019 , 42, 2007-2014	3.7	30
143	Synthesis of 1-Substituted 1-1,2,3,4-Tetrazoles Using Biosynthesized Ag/Sodium Borosilicate Nanocomposite. <i>ACS Omega</i> , 2019 , 4, 8985-9000	3.9	30
142	Microscopic Techniques for the Analysis of Micro and Nanostructures of Biopolymers and Their Derivatives. <i>Polymers</i> , 2020 , 12,	4.5	30
141	Two-dimensional boron nitride as a sulfur fixer for high performance rechargeable aluminum-sulfur batteries. <i>Scientific Reports</i> , 2019 , 9, 13573	4.9	29
140	Cytotoxic aquatic pollutants and their removal by nanocomposite-based sorbents. <i>Chemosphere</i> , 2020 , 258, 127324	8.4	29
139	P- and F-co-doped Carbon Nitride Nanocatalysts for Photocatalytic CO Reduction and Thermocatalytic Furanics Synthesis from Sugars. <i>ChemSusChem</i> , 2020 , 13, 5231-5238	8.3	29
138	Diatoms with Invaluable Applications in Nanotechnology, Biotechnology, and Biomedicine: Recent Advances. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 3053-3068	5.5	28
137	Disintegration of Wastewater Activated Sludge (WAS) for Improved Biogas Production. <i>Energies</i> , 2019 , 12, 21	3.1	28
136	Fe(0)-embedded thermally reduced graphene oxide as efficient nanocatalyst for reduction of nitro compounds to amines. <i>Chemical Engineering Journal</i> , 2020 , 382, 122469	14.7	28
135	An environmentally friendly wound dressing based on a self-healing, extensible and compressible antibacterial hydrogel. <i>Green Chemistry</i> , 2021 , 23, 1312-1329	10	28
134	Recent Advances in Rechargeable Aluminum-Ion Batteries and Considerations for Their Future Progress. <i>ACS Applied Energy Materials</i> , 2020 , 3, 6019-6035	6.1	27
133	Aerobic oxidation of alcohols in visible light on Pd-grafted Ti cluster. <i>Tetrahedron</i> , 2017 , 73, 5577-5580	2.4	27
132	A poly(3-hydroxybutyrate)-chitosan polymer conjugate for the synthesis of safer gold nanoparticles and their applications. <i>Green Chemistry</i> , 2018 , 20, 4975-4982	10	27
131	Metal-exchanged magnetic Zeolites: valorization of lignocellulosic biomass-derived compounds to platform chemicals. <i>Green Chemistry</i> , 2017 , 19, 3856-3868	10	26
130	Syntheses of N-Doped Carbon Quantum Dots (NCQDs) from Bioderived Precursors: A Timely Update. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 3-49	8.3	26
129	Natural Polymers Decorated MOF-MXene Nanocarriers for Co-delivery of Doxorubicin/pCRISPR.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 5106-5121	4.1	25

128	Bioplastic Fibers from Gum Arabic for Greener Food Wrapping Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 5900-5911	8.3	25
127	Pd nanoparticles stabilized on the Schiff base-modified boehmite: Catalytic role in Suzuki coupling reaction and reduction of nitroarenes. <i>Journal of Organometallic Chemistry</i> , 2019 , 900, 120916	2.3	24
126	Recent advances in polymer supported palladium complexes as (nano)catalysts for Sonogashira coupling reaction. <i>Molecular Catalysis</i> , 2020 , 480, 110645	3.3	24
125	Single-Atom (Iron-Based) Catalysts: Synthesis and Applications. <i>Chemical Reviews</i> , 2021 , 121, 13620-13697	58.1	23
124	Recent advances in catalytic oxidation of 5-hydroxymethylfurfural. <i>Molecular Catalysis</i> , 2020 , 495, 111133	3.3	23
123	Laser ablation-assisted synthesis of GO/TiO ₂ /Au nanocomposite: Applications in K ₃ [Fe(CN) ₆] and Nigrosin reduction. <i>Molecular Catalysis</i> , 2019 , 473, 110401	3.3	22
122	Supported heterogeneous nanocatalysts in sustainable, selective and eco-friendly epoxidation of olefins. <i>Green Chemistry</i> , 2020 , 22, 5902-5936	10	22
121	Quantum dots for photocatalysis: synthesis and environmental applications. <i>Green Chemistry</i> , 2021 , 23, 4931-4954	10	22
120	Microwave-Assisted Reductive Amination with Aqueous Ammonia: Sustainable Pathway Using Recyclable Magnetic Nickel-Based Nanocatalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 5963-5974	8.3	21
119	Turning Toxic Nanomaterials into a Safe and Bioactive Nanocarrier for Co-delivery of DOX/pCRISPR.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 5336-5351	4.1	21
118	Fixation of carbon dioxide into dimethyl carbonate over titanium-based zeolitic thiophene-benzimidazolate framework. <i>Scientific Reports</i> , 2017 , 7, 655	4.9	20
117	Copper Oxide Nanoparticles Greener Synthesis Using Tea and its Antifungal Efficiency on <i>Fusarium solani</i> . <i>Geomicrobiology Journal</i> , 2019 , 36, 777-781	2.5	20
116	Associated-risk determinants for anthroponotic cutaneous leishmaniasis treated with meglumine antimoniate: A cohort study in Iran. <i>PLoS Neglected Tropical Diseases</i> , 2019 , 13, e0007423	4.8	20
115	Pd modified prussian blue frameworks: Multiple electron transfer pathways for improving catalytic activity toward hydrogenation of nitroaromatics. <i>Molecular Catalysis</i> , 2020 , 492, 110967	3.3	20
114	SARS-CoV-2 (COVID-19): New Discoveries and Current Challenges. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3641	2.6	20
113	Pd Nanocatalyst Adorned on Magnetic Chitosan@-Heterocyclic Carbene: Eco-Compatible Suzuki Cross-Coupling Reaction. <i>Molecules</i> , 2019 , 24,	4.8	20
112	Multifunctional 3D Hierarchical Bioactive Green Carbon-Based Nanocomposites. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 8706-8720	8.3	20
111	Silver nanomaterials: synthesis and (electro/photo) catalytic applications. <i>Chemical Society Reviews</i> , 2021 , 50, 11293-11380	58.5	20

110	Recycling non-food-grade tree gum wastes into nanoporous carbon for sustainable energy harvesting. <i>Green Chemistry</i> , 2020 , 22, 1198-1208	10	19
109	Protocol encompassing ultrasound/Fe ₃ O ₄ nanoparticles/persulfate for the removal of tetracycline antibiotics from aqueous environments. <i>Clean Technologies and Environmental Policy</i> , 2019 , 21, 1665-1674	4.3	19
108	A rapid flow strategy for the oxidative cyanation of secondary and tertiary amines via C-H activation. <i>Scientific Reports</i> , 2017 , 7, 16311	4.9	19
107	MXenes for Cancer Therapy and Diagnosis: Recent Advances and Current Challenges. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 1900-1913	5.5	19
106	Cerium Hexacyanocobaltate: A Lanthanide-Compliant Prussian Blue Analogue for Li-Ion Storage. <i>ACS Omega</i> , 2019 , 4, 21410-21416	3.9	19
105	Metal-free nanostructured catalysts: sustainable driving forces for organic transformations. <i>Green Chemistry</i> , 2021 , 23, 6223-6272	10	19
104	An overview on non-spherical semiconductors for heterogeneous photocatalytic degradation of organic water contaminants. <i>Chemosphere</i> , 2021 , 280, 130907	8.4	19
103	Molybdenum-promoted cobalt supported on SBA-15: Steam and sulfur dioxide stable catalyst for CO oxidation. <i>Applied Catalysis B: Environmental</i> , 2020 , 277, 119248	21.8	18
102	Efficiency of novel Fe/charcoal/ultrasonic micro-electrolysis strategy in the removal of Acid Red 18 from aqueous solutions. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103553	6.8	18
101	Trimetallic Nanoparticles: Greener Synthesis and Their Applications. <i>Nanomaterials</i> , 2020 , 10,	5.4	18
100	Visible light-mediated and water-assisted selective hydrodeoxygenation of lignin-derived guaiacol to cyclohexanol. <i>Green Chemistry</i> , 2019 , 21, 1253-1257	10	17
99	MXenes and MXene-based materials for tissue engineering and regenerative medicine: recent advances. <i>Materials Advances</i> , 2021 , 2, 2906-2917	3.3	17
98	Iron-Oxide-Supported Ultrasmall ZnO Nanoparticles: Applications for Transesterification, Amidation, and O-Acylation Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 3314-3320	8.3	16
97	Reduction of Hexavalent Chromium Using Sorbaria sorbifolia Aqueous Leaf Extract. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 715	2.6	16
96	Improving Wettability: Deposition of TiO Nanoparticles on the O Plasma Activated Polypropylene Membrane. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	16
95	Efficient degradation of environmental contaminants using Pd-RGO nanocomposite as a retrievable catalyst. <i>Clean Technologies and Environmental Policy</i> , 2020 , 22, 325-335	4.3	16
94	Comprehensive study on expeditious conversion of pre-hydrolyzed alginic acid to furfural in Cu(II) biphasic systems using microwaves. <i>Molecular Catalysis</i> , 2018 , 445, 73-79	3.3	16
93	Gum Kondagogu/Reduced Graphene Oxide Framed Platinum Nanoparticles and Their Catalytic Role. <i>Molecules</i> , 2019 , 24,	4.8	15

92	Green chemistry and coronavirus. <i>Sustainable Chemistry and Pharmacy</i> , 2021 , 21, 100415	3.9	15
91	Unprecedented Wiring Efficiency of Sulfonated Graphitic Carbon Nitride Materials: Toward High-Performance Amperometric Recombinant CotA Laccase Biosensors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 1474-1484	8.3	15
90	Eco-Friendly and Economic, Adsorptive Removal of Cationic and Anionic Dyes by Bio-Based Karaya Gum-Chitosan Sponge. <i>Polymers</i> , 2021 , 13,	4.5	15
89	Electrochemical Detection of Hydrazine by Carbon Paste Electrode Modified with Ferrocene Derivatives, Ionic Liquid, and CoS-Carbon Nanotube Nanocomposite. <i>ACS Omega</i> , 2021 , 6, 4641-4648	3.9	15
88	Molecularly imprinted polymers for the detection of viruses: challenges and opportunities. <i>Analyst, The</i> , 2021 , 146, 3087-3100	5	15
87	Structural Evolution of Organic Matter in Deep Shales by Spectroscopy (1H and 13C Nuclear Magnetic Resonance, X-ray Photoelectron Spectroscopy, and Fourier Transform Infrared) Analysis. <i>Energy & Fuels</i> , 2020 , 34, 2807-2815	4.1	14
86	Natural Moroccan clays: Comparative study of their application as recyclable catalysts in Knoevenagel condensation. <i>Sustainable Chemistry and Pharmacy</i> , 2018 , 10, 1-8	3.9	14
85	Phytosynthesis and modification of metal and metal oxide nanoparticles/nanocomposites for antibacterial and anticancer activities: Recent advances. <i>Sustainable Chemistry and Pharmacy</i> , 2021 , 21, 100412	3.9	14
84	Nitrogen-doped nanocarbons (NNCs): Current status and future opportunities. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2019 , 15, 67-76	7.9	14
83	Highly exfoliated Ti3C2Tx MXene nanosheets atomically doped with Cu for efficient electrochemical CO2 reduction: an experimental and theoretical study. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 1965-1975	13	13
82	Synthesis of Ag nanoparticles by a chitosan-poly(3-hydroxybutyrate) polymer conjugate and their superb catalytic activity. <i>Carbohydrate Polymers</i> , 2020 , 232, 115806	10.3	13
81	Preparation and Characterization of Polyvinylpyrrolidone/Polysulfone Ultrafiltration Membrane Modified by Graphene Oxide and Titanium Dioxide for Enhancing Hydrophilicity and Antifouling Properties. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020 , 30, 2213-2223	3.2	12
80	Novel Pt-AgPO/CdS/Chitosan Nanocomposite with Enhanced Photocatalytic and Biological Activities. <i>Nanomaterials</i> , 2020 , 10,	5.4	12
79	Benign Synthesis of Thiazolo-androstenone Derivatives as Potent Anticancer Agents. <i>Organic Letters</i> , 2018 , 20, 5927-5932	6.2	12
78	Gallic acid for cancer therapy: Molecular mechanisms and boosting efficacy by nanoscopy delivery. <i>Food and Chemical Toxicology</i> , 2021 , 157, 112576	4.7	12
77	Pd Nanocatalyst Adorning Coral Reef Nanocomposite for the Synthesis of Nitriles: Utility of Leaf Extract as a Stabilizing and Reducing Agent. <i>Nanomaterials</i> , 2019 , 9,	5.4	11
76	Electrochemical activity of Samarium on starch-derived porous carbon: rechargeable Li- and Al-ion batteries. <i>Nano Convergence</i> , 2020 , 7, 11	9.2	11
75	Greener assembling of MoO3 nanoparticles supported on gum arabic: cytotoxic effects and catalytic efficacy towards reduction of p-nitrophenol. <i>Clean Technologies and Environmental Policy</i> , 2019 , 21, 1549-1561	4.3	11

74	Preparation of Au nanoparticles by Q switched laser ablation and their application in 4-nitrophenol reduction. <i>Clean Technologies and Environmental Policy</i> , 2020 , 22, 1715-1724	4.3	11
73	Determining factors for the nano-biocompatibility of cobalt oxide nanoparticles: proximal discrepancy in intrinsic atomic interactions at differential vicinage. <i>Green Chemistry</i> , 2021 , 23, 3439-3458 ¹⁰		11
72	A catalyst-free and expeditious general synthesis of N-benzyl-N-arylcyanamides under ultrasound irradiation at room temperature. <i>Ultrasonics Sonochemistry</i> , 2019 , 56, 481-486	8.9	10
71	CoreShell Nanophotocatalysts: Review of Materials and Applications. <i>ACS Applied Nano Materials</i> , 2022 , 5, 55-86	5.6	10
70	Impact of Microwaves on Organic Synthesis and Strategies toward Flow Processes and Scaling Up. <i>Journal of Organic Chemistry</i> , 2021 , 86, 13857-13872	4.2	10
69	Enhancement of Thermostability of Urate Oxidase by Immobilization on the Ni-Based Magnetic Metal-Organic Framework. <i>Nanomaterials</i> , 2021 , 11,	5.4	10
68	Oxidative C-H activation of amines using protuberant lychee-like goethite. <i>Scientific Reports</i> , 2018 , 8, 2024	4.9	9
67	Applications of plant-based nanoparticles in nanomedicine: A review. <i>Sustainable Chemistry and Pharmacy</i> , 2022 , 25, 100606	3.9	9
66	Sulfonated dendritic mesoporous silica nanospheres: a metal-free Lewis acid catalyst for the upgrading of carbohydrates. <i>Green Chemistry</i> , 2020 , 22, 1754-1762	10	9
65	Mechanochemical synthesis of Cu ₂ S bonded 2D-sulfonated organic polymers: continuous production of dimethyl carbonate (DMC) via preheating of reactants. <i>Green Chemistry</i> , 2020 , 22, 5619-5627 ¹⁰		9
64	Isosorbide: Recent advances in catalytic production. <i>Molecular Catalysis</i> , 2020 , 482, 110648	3.3	9
63	Hydrothermal self - sacrificing growth of polymorphous MnO ₂ on magnetic porous - carbon (Fe ₃ O ₄ @Cg/MnO ₂): A sustainable nanostructured catalyst for activation of molecular oxygen. <i>Molecular Catalysis</i> , 2021 , 509, 111603	3.3	9
62	Framework towards more Sustainable Chemical Synthesis Design - A Case Study of Organophosphates. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 6744-6757	8.3	9
61	A single-group trial of end-stage patients with anthroponotic cutaneous leishmaniasis: Levamisole in combination with Glucantime in field and laboratory models. <i>Microbial Pathogenesis</i> , 2019 , 128, 162-170 ^{7,8}		9
60	Potential toxicity of nanoparticles on the reproductive system animal models: A review. <i>Journal of Reproductive Immunology</i> , 2021 , 148, 103384	4.2	9
59	Important Roles of Oligo- and Polysaccharides against SARS-CoV-2: Recent Advances. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3512	2.6	8
58	Construction of Silver Quantum Dot Immobilized Zn-MOF-8 Composite for Electrochemical Sensing of 2,4-Dinitrotoluene. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4952	2.6	8
57	Prussian blue-based nanostructured materials: Catalytic applications for environmental remediation and energy conversion. <i>Molecular Catalysis</i> , 2021 , 514, 111835	3.3	8

56	Smart MXene Quantum Dot-Based Nanosystems for Biomedical Applications.. <i>Nanomaterials</i> , 2022 , 12,	5.4	8
55	Microwave-assisted sustainable co-digestion of sewage sludge and rapeseed cakes. <i>Energy Conversion and Management</i> , 2019 , 199, 112012	10.6	7
54	Cell cycle inhibition, apoptosis, and molecular docking studies of the novel anticancer bioactive 1,2,4-triazole derivatives. <i>Structural Chemistry</i> , 2020 , 31, 691-699	1.8	7
53	Fabrication of a Greener TiO@Gum Arabic-Carbon Paste Electrode for the Electrochemical Detection of Pb Ions in Plastic Toys. <i>ACS Omega</i> , 2020 , 5, 25390-25399	3.9	7
52	Leaf Extract Stabilized Zinc Oxide Nanoparticles: A Promising Photocatalyst for Methylene Blue Degradation. <i>Nanomaterials</i> , 2021 , 11,	5.4	7
51	Carbon nanomaterials with chitosan: A winning combination for drug delivery systems. <i>Journal of Drug Delivery Science and Technology</i> , 2021 , 66, 102847	4.5	7
50	MXene (TiCT)-Embedded Nanocomposite Hydrogels for Biomedical Applications: A Review.. <i>Materials</i> , 2022 , 15,	3.5	7
49	Grid-Connected Photovoltaic Systems with Single-Axis Sun Tracker: Case Study for Central Vietnam. <i>Energies</i> , 2020 , 13, 1457	3.1	6
48	Nanotechnology-Abetted Astaxanthin Formulations in Multimodel Therapeutic and Biomedical Applications.. <i>Journal of Medicinal Chemistry</i> , 2021 ,	8.3	6
47	Health concerns of various nanoparticles: A review of their in vitro and in vivo toxicity		6
46	Rendering Redox Reactions of Cathodes in Li-Ion Capacitors Enabled by Lanthanides. <i>ACS Omega</i> , 2020 , 5, 1634-1639	3.9	6
45	Cross-Linked Cyclodextrins Bimetallic Nanocatalysts: Applications in Microwave-Assisted Reductive Aminations. <i>Molecules</i> , 2020 , 25,	4.8	5
44	Fabrication of intimately coupled CeO ₂ /ZnFe ₂ O ₄ nano-heterojunction for visible-light photocatalysis and bactericidal application. <i>Materials Chemistry and Physics</i> , 2022 , 279, 125759	4.4	5
43	Porphyrin Molecules Decorated on Metal-Organic Frameworks for Multi-Functional Biomedical Applications. <i>Biomolecules</i> , 2021 , 11,	5.9	5
42	Gold Nanoparticle-Catalyzed Multicomponent Reactions. <i>ACS Sustainable Chemistry and Engineering</i> ,	8.3	5
41	Magnetically recoverable nanocatalyst based on N-heterocyclic ligands: efficient treatment of environmental pollutants in aqueous media. <i>Clean Technologies and Environmental Policy</i> , 2020 , 22, 423-440	4.3	5
40	Naphthoquinone derivatives exhibit apoptosis-like effect and anti-trypanosomal activity against <i>Trypanosoma evansi</i> . <i>Veterinary Parasitology</i> , 2021 , 290, 109367	2.8	5
39	Nanostructured NaFeS ₂ as a cost-effective and robust electrocatalyst for hydrogen and oxygen evolution with reduced overpotentials. <i>Chemical Engineering Journal</i> , 2021 , 426, 131315	14.7	5

38	A multifunctional covalently linked graphene/MOF hybrid as an effective chemiresistive gas sensor. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 17434-17441	13	5
37	2D and 3D Covalent Organic Frameworks: Cutting-Edge Applications in Biomedical Sciences.. <i>ACS Applied Bio Materials</i> , 2021 ,	4-1	5
36	Efficient Optical and UV-Vis Chemosensor Based on Chromo Probes-Polymeric Nanocomposite Hybrid for Selective Recognition of Fluoride Ions. <i>ACS Omega</i> , 2019 , 4, 16001-16008	3-9	4
35	Photocatalytic decomposition of VOCs by Ag ₂ O ₂ and EG ₂ O ₂ nanocomposites. <i>Clean Technologies and Environmental Policy</i> , 2019 , 21, 1259-1268	4-3	4
34	Green synthesis of novel 5-amino-bispyrazole-4-carbonitriles using a recyclable FeO@SiO ₂ @vanillin@thioglycolic acid nano-catalyst.. <i>RSC Advances</i> , 2021 , 12, 834-844	3-7	4
33	Molecular nanoinformatics approach assessing the biocompatibility of biogenic silver nanoparticles with channelized intrinsic steatosis and apoptosis. <i>Green Chemistry</i> ,	10	4
32	Review of Oxygenation with Nanobubbles: Possible Treatment for Hypoxic COVID-19 Patients. <i>ACS Applied Nano Materials</i> ,	5-6	4
31	Nature-Inspired and Sustainable Synthesis of Sulfur-Bearing Fe-Rich Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 15791-15808	8-3	4
30	Toxico-pathological effects of meglumine antimoniate on human umbilical vein endothelial cells. <i>Toxicology in Vitro</i> , 2019 , 56, 10-18	3-6	4
29	Transition metal-free C-3 functionalization of quinoxalin-2(1H)-ones: recent advances and sanguine future. <i>New Journal of Chemistry</i> ,	3-6	4
28	Improving the air quality with Functionalized Carbon Nanotubes: Sensing and remediation applications in the real world.. <i>Chemosphere</i> , 2022 , 134468	8-4	4
27	A Novel Strategy for Selective -Methylation of Glycerol in Subcritical Methanol. <i>Frontiers in Chemistry</i> , 2019 , 7, 357	5	3
26	Iron Oxide-Cobalt Nanocatalyst for --Boc Protection and Arylation of Phenols. <i>Nanomaterials</i> , 2018 , 8,	5-4	3
25	Designing Z-scheme AgIO nanorod embedded with BiS nanoflakes for expeditious visible light photodegradation of Congo red and rhodamine B.. <i>Chemosphere</i> , 2022 , 133755	8-4	3
24	Ultrasound-assisted fabrication of N-cyano-N-arylbenzenesulfonamides at ambient temperature: improvements with biosynthesized Ag/feldspar nanocomposite. <i>Clean Technologies and Environmental Policy</i> , 2020 , 22, 231-246	4-3	3
23	Transforming gum wastes into high tap density micron-sized carbon with ultra-stable high-rate Li storage. <i>Electrochimica Acta</i> , 2021 , 367, 137419	6-7	3
22	A Pd/Cu-Free magnetic cobalt catalyst for C-N cross coupling reactions: synthesis of abemaciclib and fedratinib. <i>Green Chemistry</i> , 2021 , 23, 5222-5229	10	3
21	Carbohydrate-based nanostructured catalysts: applications in organic transformations. <i>Materials Today Chemistry</i> , 2022 , 24, 100869	6-2	3

20	Remediation of heavy metal polluted waters using activated carbon from lignocellulosic biomass: An update of recent trends.. <i>Chemosphere</i> , 2022 , 302, 134825	8.4	3
19	Engineering of Transition Metal Sulfide Nanostructures as Efficient Electrodes for High-Performance Supercapacitors. <i>ACS Applied Energy Materials</i> ,	6.1	3
18	Modification of Chitosan Membranes via Methane Ion Beam. <i>Molecules</i> , 2020 , 25,	4.8	2
17	Quantum dots against SARS-CoV-2: diagnostic and therapeutic potentials.. <i>Journal of Chemical Technology and Biotechnology</i> , 2022 ,	3.5	2
16	Pomegranate Punica granatum peel waste as a naked-eye natural colorimetric sensor for the detection and determination of Fe and I ions in water.. <i>Chemosphere</i> , 2022 , 294, 133759	8.4	2
15	Ionic liquids-assisted greener preparation of silver nanoparticles. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2022 , 33, 100581	7.9	2
14	Cheilocostus speciosus extract-assisted naringenin-encapsulated poly-ε-caprolactone nanoparticles: evaluation of anti-proliferative activities. <i>Green Chemistry</i> ,	10	2
13	Sustainable and safer nanoclay composites for multifaceted applications. <i>Green Chemistry</i> ,	10	2
12	Sustainable Visible Light-Driven Heck and Suzuki Reactions Using NiCu Nanoparticles Adorned on Carbon Nano-onions. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 14061-14069	8.3	1
11	Diffusivity and hydrophobic hydration of hydrocarbons in supercritical CO and aqueous brine.. <i>RSC Advances</i> , 2020 , 10, 37938-37946	3.7	1
10	Polymer surfaces adorning ligand-coordinated palladium for hydrogenation reactions. <i>Molecular Catalysis</i> , 2020 , 494, 111129	3.3	1
9	Greenness of things. <i>Clean Technologies and Environmental Policy</i> , 2021 , 23, 2497	4.3	1
8	Single-atom catalysts for the upgrading of biomass-derived molecules: an overview of their preparation, properties and applications. <i>Green Chemistry</i> , 2022 , 24, 2722-2751	10	1
7	Bio-inspired sustainable synthesis of silver chloride nanoparticles and their prominent applications. <i>Journal of the Indian Chemical Society</i> , 2022 , 99, 100335		1
6	Nanosponges for Water Treatment: Progress and Challenges. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 4182	2.6	1
5	Magnetic nanocarriers adorned on graphene: promising contrast-enhancing agents with state-of-the-art performance in magnetic resonance imaging (MRI) and theranostics. <i>Materials Advances</i> , 2022 , 3, 2971-2989	3.3	0
4	Nonlinear molecular dynamics of quercetin in Gynocardia odorata and Diospyros malabarica fruits: Its mechanistic role in hepatoprotection.. <i>PLoS ONE</i> , 2022 , 17, e0263917	3.7	0
3	Protein by-products: Composition, extraction, and biomedical applications.. <i>Critical Reviews in Food Science and Nutrition</i> , 2022 , 1-46	11.5	0

- 2 Genetically Engineered Organisms: Possibilities and Challenges of Heavy Metal Removal and Nanoparticle Synthesis. *Clean Technologies*, **2022**, 4, 502-511 3.4 ○
- 1 Gene Editing-Based Technologies for Beta-hemoglobinopathies Treatment. *Biology*, **2022**, 11, 862 4.9