

Mahmoud Nasrollahzadeh

List of Publications by Year in descending order

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302
papers

17,288
citations

5558

82
h-index

24179

110
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332
all docs

332
docs citations

332
times ranked

10254
citing authors

#	ARTICLE	IF	CITATIONS
1	Starch, cellulose, pectin, gum, alginate, chitin and chitosan derived (nano)materials for sustainable water treatment: A review. <i>Carbohydrate Polymers</i> , 2021, 251, 116986.	5.1	385
2	Green-synthesized nanocatalysts and nanomaterials for water treatment: Current challenges and future perspectives. <i>Journal of Hazardous Materials</i> , 2021, 401, 123401.	6.5	259
3	Waste-to-wealth: biowaste valorization into valuable bio(nano)materials. <i>Chemical Society Reviews</i> , 2019, 48, 4791-4822.	18.7	244
4	Green synthesis of Pd/RGO/Fe ₃ O ₄ nanocomposite using <i>Withania coagulans</i> leaf extract and its application as magnetically separable and reusable catalyst for the reduction of 4-nitrophenol. <i>Journal of Colloid and Interface Science</i> , 2016, 465, 249-258.	5.0	234
5	Green synthesis of palladium nanoparticles using <i>Hippophae rhamnoides</i> Linn leaf extract and their catalytic activity for the Suzuki-Miyaura coupling in water. <i>Journal of Molecular Catalysis A</i> , 2015, 396, 297-303.	4.8	231
6	<i>Euphorbia heterophylla</i> leaf extract mediated green synthesis of Ag/TiO ₂ nanocomposite and investigation of its excellent catalytic activity for reduction of variety of dyes in water. <i>Journal of Colloid and Interface Science</i> , 2016, 462, 272-279.	5.0	216
7	Green synthesis of copper nanoparticles using <i>Ginkgo biloba</i> L. leaf extract and their catalytic activity for the Huisgen [3 + 2] cycloaddition of azides and alkynes at room temperature. <i>Journal of Colloid and Interface Science</i> , 2015, 457, 141-147.	5.0	208
8	FeCl ₃ ·SiO ₂ as a reusable heterogeneous catalyst for the synthesis of 5-substituted 1H-tetrazoles via [2+3] cycloaddition of nitriles and sodium azide. <i>Tetrahedron Letters</i> , 2009, 50, 4435-4438.	0.7	198
9	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.	2.4	196
10	Carbon-based sustainable nanomaterials for water treatment: State-of-art and future perspectives. <i>Chemosphere</i> , 2021, 263, 128005.	4.2	184
11	Waste chicken eggshell as a natural valuable resource and environmentally benign support for biosynthesis of catalytically active Cu/eggshell, Fe ₃ O ₄ /eggshell and Cu/Fe ₃ O ₄ /eggshell nanocomposites. <i>Applied Catalysis B: Environmental</i> , 2016, 191, 209-227.	10.8	182
12	Green synthesis of the copper nanoparticles supported on bentonite and investigation of its catalytic activity. <i>Journal of Cleaner Production</i> , 2017, 142, 3584-3591.	4.6	174
13	In situ green synthesis of Ag nanoparticles on graphene oxide/TiO ₂ nanocomposite and their catalytic activity for the reduction of 4-nitrophenol, congo red and methylene blue. <i>Ceramics International</i> , 2016, 42, 8587-8596.	2.3	167
14	Green synthesis of the Pd nanoparticles supported on reduced graphene oxide using barberry fruit extract and its application as a recyclable and heterogeneous catalyst for the reduction of nitroarenes. <i>Journal of Colloid and Interface Science</i> , 2016, 466, 360-368.	5.0	162
15	Green synthesis of copper nanoparticles using aqueous extract of the leaves of <i>Euphorbia esula</i> L and their catalytic activity for ligand-free Ullmann-coupling reaction and reduction of 4-nitrophenol. <i>RSC Advances</i> , 2014, 4, 47313-47318.	1.7	159
16	Green synthesis of seashell supported silver nanoparticles using <i>Bunium persicum</i> seeds extract: Application of the particles for catalytic reduction of organic dyes. <i>Journal of Colloid and Interface Science</i> , 2016, 470, 268-275.	5.0	158
17	Green synthesis of Pd/Fe ₃ O ₄ nanoparticles using <i>Euphorbia condylocarpa</i> M. bieb root extract and their catalytic applications as magnetically recoverable and stable recyclable catalysts for the phosphine-free Sonogashira and Suzuki coupling reactions. <i>Journal of Molecular Catalysis A</i> , 2015, 396, 31-39.	4.8	154
18	<i>Melissa Officinalis</i> L. leaf extract assisted green synthesis of CuO/ZnO nanocomposite for the reduction of 4-nitrophenol and Rhodamine B. <i>Separation and Purification Technology</i> , 2018, 191, 295-300.	3.9	144

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19	Green synthesis of CuO nanoparticles using aqueous extract of <i>Thymus vulgaris</i> L. leaves and their catalytic performance for N-arylation of indoles and amines. <i>Journal of Colloid and Interface Science</i> , 2016, 466, 113-119.	5.0	142
20	<i>Achillea millefolium</i> L. extract mediated green synthesis of waste peach kernel shell supported silver nanoparticles: Application of the nanoparticles for catalytic reduction of a variety of dyes in water. <i>Journal of Colloid and Interface Science</i> , 2017, 493, 85-93.	5.0	142
21	Pd-based nanoparticles: Plant-assisted biosynthesis, characterization, mechanism, stability, catalytic and antimicrobial activities. <i>Advances in Colloid and Interface Science</i> , 2020, 276, 102103.	7.0	140
22	Green synthesis of Pd/CuO nanoparticles by <i>Theobroma cacao</i> L. seeds extract and their catalytic performance for the reduction of 4-nitrophenol and phosphine-free Heck coupling reaction under aerobic conditions. <i>Journal of Colloid and Interface Science</i> , 2015, 448, 106-113.	5.0	139
23	Green synthesis of the Cu/Fe ₃ O ₄ nanoparticles using <i>Morinda morindoides</i> leaf aqueous extract: A highly efficient magnetically separable catalyst for the reduction of organic dyes in aqueous medium at room temperature. <i>Applied Surface Science</i> , 2016, 364, 636-644.	3.1	139
24	<i>Cuscuta reflexa</i> leaf extract mediated green synthesis of the Cu nanoparticles on graphene oxide/manganese dioxide nanocomposite and its catalytic activity toward reduction of nitroarenes and organic dyes. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 86, 158-173.	2.7	138
25	Green synthesis of CuO nanoparticles by aqueous extract of <i>Gundelia tournefortii</i> and evaluation of their catalytic activity for the synthesis of N -monosubstituted ureas and reduction of 4-nitrophenol. <i>Journal of Colloid and Interface Science</i> , 2015, 455, 245-253.	5.0	137
26	Photocatalytic degradation of azo dyes by titanium dioxide supported silver nanoparticles prepared by a green method using <i>Carpobrotus acinaciformis</i> extract. <i>Journal of Alloys and Compounds</i> , 2016, 689, 15-20.	2.8	134
27	Recent progresses in the application of cellulose, starch, alginate, gum, pectin, chitin and chitosan based (nano)catalysts in sustainable and selective oxidation reactions: A review. <i>Carbohydrate Polymers</i> , 2020, 241, 116353.	5.1	131
28	Immobilization of copper nanoparticles on perlite: Green synthesis, characterization and catalytic activity on aqueous reduction of 4-nitrophenol. <i>Journal of Molecular Catalysis A</i> , 2015, 400, 22-30.	4.8	130
29	Green synthesis of Ni@Fe ₃ O ₄ and CuO nanoparticles using <i>Euphorbia maculata</i> extract as photocatalysts for the degradation of organic pollutants under UV-irradiation. <i>Ceramics International</i> , 2019, 45, 17173-17182.	2.3	130
30	Biosynthesis of the palladium/sodium borosilicate nanocomposite using <i>Euphorbia milii</i> extract and evaluation of its catalytic activity in the reduction of chromium(VI), nitro compounds and organic dyes. <i>Materials Research Bulletin</i> , 2018, 102, 24-35.	2.7	129
31	Recent Developments in the Plant-Mediated Green Synthesis of Ag-Based Nanoparticles for Environmental and Catalytic Applications. <i>Chemical Record</i> , 2019, 19, 2436-2479.	2.9	128
32	An Introduction to Nanotechnology. <i>Interface Science and Technology</i> , 2019, 28, 1-27.	1.6	128
33	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.	5.1	127
34	Green synthesis of Pd nanoparticles at Apricot kernel shell substrate using <i>Salvia hydrangea</i> extract: Catalytic activity for reduction of organic dyes. <i>Journal of Colloid and Interface Science</i> , 2017, 490, 1-10.	5.0	126
35	Green synthesis of perlite supported silver nanoparticles using <i>Hamamelis virginiana</i> leaf extract and investigation of its catalytic activity for the reduction of 4-nitrophenol and Congo red. <i>Journal of Alloys and Compounds</i> , 2016, 680, 309-314.	2.8	122
36	Barberry fruit extract assisted in situ green synthesis of Cu nanoparticles supported on a reduced graphene oxide-Fe ₃ O ₄ nanocomposite as a magnetically separable and reusable catalyst for the O-arylation of phenols with aryl halides under ligand-free conditions. <i>RSC Advances</i> , 2015, 5, 64769-64780.	1.7	121

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37	Biosynthesis of Ag/reduced graphene oxide/Fe ₃ O ₄ using Lotus garcinii leaf extract and its application as a recyclable nanocatalyst for the reduction of 4-nitrophenol and organic dyes. Journal of Colloid and Interface Science, 2017, 497, 33-42.	5.0	120
38	Preparation of the GO/Pd nanocomposite and its application for the degradation of organic dyes in water. Journal of Colloid and Interface Science, 2017, 496, 44-50.	5.0	119
39	Nanomaterials and Nanotechnology-Associated Innovations against Viral Infections with a Focus on Coronaviruses. Nanomaterials, 2020, 10, 1072.	1.9	119
40	Green synthesis of CuO nanoparticles by aqueous extract of Anthemis nobilis flowers and their catalytic activity for the A ₃ coupling reaction. Journal of Colloid and Interface Science, 2015, 459, 183-188.	5.0	116
41	Green synthesis of the Cu/ZnO nanoparticles mediated by Euphorbia prolifera leaf extract and investigation of their catalytic activity. Journal of Colloid and Interface Science, 2016, 472, 173-179.	5.0	116
42	Aqueous extract from seeds of Silybum marianum L. as a green material for preparation of the Cu/Fe ₃ O ₄ nanoparticles: A magnetically recoverable and reusable catalyst for the reduction of nitroarenes. Journal of Colloid and Interface Science, 2016, 469, 93-98.	5.0	114
43	Green synthesis of a natrolite zeolite/palladium nanocomposite and its application as a reusable catalyst for the reduction of organic dyes in a very short time. RSC Advances, 2015, 5, 91372-91381.	1.7	113
44	Facile synthesis of palladium nanoparticles immobilized on magnetic biodegradable microcapsules used as effective and recyclable catalyst in Suzuki-Miyaura reaction and p-nitrophenol reduction. Carbohydrate Polymers, 2019, 222, 115029.	5.1	113
45	Green synthesis of a Cu/reduced graphene oxide/Fe ₃ O ₄ nanocomposite using <i>Euphorbia wallichii</i> leaf extract and its application as a recyclable and heterogeneous catalyst for the reduction of 4-nitrophenol and rhodamine B. RSC Advances, 2015, 5, 91532-91543.	1.7	112
46	Green synthesis of Ag nanoparticles/clinoptilolite using Vaccinium macrocarpon fruit extract and its excellent catalytic activity for reduction of organic dyes. Journal of Alloys and Compounds, 2017, 719, 82-88.	2.8	111
47	Green Nanotechnology. Interface Science and Technology, 2019, 28, 145-198.	1.6	111
48	Pd nanoparticles synthesized in situ with the use of Euphorbia granulate leaf extract: Catalytic properties of the resulting particles. Journal of Colloid and Interface Science, 2016, 462, 243-251.	5.0	110
49	Green synthesis of Ag/Fe ₃ O ₄ nanocomposite using Euphorbia peplus Linn leaf extract and evaluation of its catalytic activity. Journal of Colloid and Interface Science, 2017, 497, 1-13.	5.0	110
50	Biosynthesis, characterization and catalytic activity of an Ag/zeolite nanocomposite for base- and ligand-free oxidative hydroxylation of phenylboronic acid and reduction of a variety of dyes at room temperature. New Journal of Chemistry, 2016, 40, 2501-2513.	1.4	108
51	Biosynthesis of copper nanoparticles supported on manganese dioxide nanoparticles using Centella asiatica L. leaf extract for the efficient catalytic reduction of organic dyes and nitroarenes. Chinese Journal of Catalysis, 2018, 39, 109-117.	6.9	108
52	Tamarix gallica leaf extract mediated novel route for green synthesis of CuO nanoparticles and their application for N-arylation of nitrogen-containing heterocycles under ligand-free conditions. RSC Advances, 2015, 5, 40628-40635.	1.7	107
53	Green synthesis of a Cu/MgO nanocomposite by <i>Cassia filiformis</i> extract and investigation of its catalytic activity in the reduction of methylene blue, congo red and nitro compounds in aqueous media. RSC Advances, 2018, 8, 3723-3735.	1.7	107
54	Hibiscus Rosasinensis L. aqueous extract-assisted valorization of lignin: Preparation of magnetically reusable Pd NPs@Fe ₃ O ₄ -lignin for Cr(VI) reduction and Suzuki-Miyaura reaction in eco-friendly media. International Journal of Biological Macromolecules, 2020, 148, 265-275.	3.6	106

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55	Synthesis and characterization of titanium dioxide nanoparticles using <i>Euphorbia heteradena</i> Jaub root extract and evaluation of their stability. <i>Ceramics International</i> , 2015, 41, 14435-14439.	2.3	105
56	Green synthesis of the Ag/HZSM-5 nanocomposite by using <i>Euphorbia heterophylla</i> leaf extract: A recoverable catalyst for reduction of organic dyes. <i>Journal of Alloys and Compounds</i> , 2016, 685, 258-265.	2.8	104
57	Preparation of the Ag/RGO nanocomposite by use of <i>Abutilon hirtum</i> leaf extract: A recoverable catalyst for the reduction of organic dyes in aqueous medium at room temperature. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 21236-21245.	3.8	103
58	Recent developments in palladium (nano)catalysts supported on polymers for selective and sustainable oxidation processes. <i>Coordination Chemistry Reviews</i> , 2019, 397, 54-75.	9.5	103
59	Preparation of palladium nanoparticles using <i>Euphorbia thymifolia</i> L. leaf extract and evaluation of catalytic activity in the ligand-free Stille and Miyama cross-coupling reactions in water. <i>New Journal of Chemistry</i> , 2015, 39, 4745-4752.	1.4	101
60	Green synthesis, characterization and catalytic activity of the Pd/TiO ₂ nanoparticles for the ligand-free Suzuki-Miyaura coupling reaction. <i>Journal of Colloid and Interface Science</i> , 2016, 465, 121-127.	5.0	101
61	Preparation, characterization and catalytic activity of CoFe ₂ O ₄ nanoparticles as a magnetically recoverable catalyst for selective oxidation of benzyl alcohol to benzaldehyde and reduction of organic dyes. <i>Journal of Colloid and Interface Science</i> , 2016, 465, 271-278.	5.0	100
62	Synthesis and characterization of copper nanoparticles supported on reduced graphene oxide as a highly active and recyclable catalyst for the synthesis of formamides and primary amines. <i>Journal of Molecular Catalysis A</i> , 2014, 383-384, 17-22.	4.8	98
63	Green synthesis of the Cu/sodium borosilicate nanocomposite and investigation of its catalytic activity. <i>Journal of Alloys and Compounds</i> , 2018, 763, 1024-1034.	2.8	97
64	Green synthesis of Pd/Fe ₃ O ₄ nanocomposite using <i>Hibiscus tiliaceus</i> L. extract and its application for reductive catalysis of Cr(VI) and nitro compounds. <i>Separation and Purification Technology</i> , 2018, 197, 253-260.	3.9	96
65	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.	1.6	95
66	Green synthesis of the 1-substituted 1H-1,2,3,4-tetrazoles by application of the Natrolite zeolite as a new and reusable heterogeneous catalyst. <i>Green Chemistry</i> , 2011, 13, 3499.	4.6	94
67	Graphene oxide supported Au nanoparticles as an efficient catalyst for reduction of nitro compounds and Suzuki-Miyaura coupling in water. <i>RSC Advances</i> , 2014, 4, 48691-48697.	1.7	94
68	Journey on greener pathways: use of <i>Euphorbia condylocarpa</i> M. bieb as reductant and stabilizer for green synthesis of Au/Pd bimetallic nanoparticles as reusable catalysts in the Suzuki and Heck coupling reactions in water. <i>RSC Advances</i> , 2014, 4, 43477-43484.	1.7	94
69	Preparation of Au nanoparticles by <i>Anthemis xylopada</i> flowers aqueous extract and their application for alkyne/aldehyde/amine A ³ -type coupling reactions. <i>RSC Advances</i> , 2015, 5, 46240-46246.	1.7	94
70	Green synthesis of copper nanoparticles using <i>Plantago asiatica</i> leaf extract and their application for the cyanation of aldehydes using K ₄ Fe(CN) ₆ . <i>Journal of Colloid and Interface Science</i> , 2017, 506, 471-477.	5.0	94
71	Plant-Mediated Green Synthesis of Nanostructures: Mechanisms, Characterization, and Applications. <i>Interface Science and Technology</i> , 2019, 28, 199-322.	1.6	94
72	Green synthesis of Pd nanoparticles mediated by <i>Euphorbia thymifolia</i> L. leaf extract: Catalytic activity for cyanation of aryl iodides under ligand-free conditions. <i>Journal of Colloid and Interface Science</i> , 2016, 469, 191-195.	5.0	93

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73	Fabrication, characterization and application of GO/Fe ₃ O ₄ /Pd nanocomposite as a magnetically separable and reusable catalyst for the reduction of organic dyes. <i>Chemical Engineering Research and Design</i> , 2017, 121, 339-347.	2.7	93
74	<i>Euphorbia helioscopia</i> Linn as a green source for synthesis of silver nanoparticles and their optical and catalytic properties. <i>Journal of Colloid and Interface Science</i> , 2015, 450, 374-380.	5.0	92
75	Recent Progress in Application of Graphene Supported Metal Nanoparticles in C-C and C-X Coupling Reactions. <i>Chemical Record</i> , 2018, 18, 165-229.	2.9	92
76	Green synthesis and catalytic properties of palladium nanoparticles for the direct reductive amination of aldehydes and hydrogenation of unsaturated ketones. <i>New Journal of Chemistry</i> , 2014, 38, 5544-5550.	1.4	91
77	Lignin-derived (nano)materials for environmental pollution remediation: Current challenges and future perspectives. <i>International Journal of Biological Macromolecules</i> , 2021, 178, 394-423.	3.6	90
78	Synthesis, characterization and catalytic activity of graphene oxide/ZnO nanocomposites. <i>RSC Advances</i> , 2014, 4, 36713.	1.7	89
79	Palladium Nanocatalysts on Hydroxyapatite: Green Oxidation of Alcohols and Reduction of Nitroarenes in Water. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4183.	1.3	88
80	Preparation of Pd/Fe ₃ O ₄ nanoparticles by use of <i>Euphorbia stracheyi</i> Boiss root extract: A magnetically recoverable catalyst for one-pot reductive amination of aldehydes at room temperature. <i>Journal of Colloid and Interface Science</i> , 2016, 464, 147-152.	5.0	87
81	Green synthesis of formamides using the Natrolite zeolite as a natural, efficient and recyclable catalyst. <i>Journal of Molecular Catalysis A</i> , 2013, 378, 148-155.	4.8	86
82	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.	4.6	86
83	Synthesis of Au/Pd bimetallic nanoparticles and their application in the Suzuki coupling reaction. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 746-748.	2.9	85
84	A general synthetic method for the formation of arylaminotetrazoles using natural natrolite zeolite as a new and reusable heterogeneous catalyst. <i>Tetrahedron</i> , 2009, 65, 10715-10719.	1.0	84
85	Green synthesis of water-dispersable palladium nanoparticles and their catalytic application in the ligand- and copper-free Sonogashira coupling reaction under aerobic conditions. <i>Journal of Molecular Catalysis A</i> , 2014, 391, 83-87.	4.8	81
86	Biosynthesis, characterization and catalytic activity of Cu/RGO/Fe ₃ O ₄ for direct cyanation of aldehydes with K ₄ [Fe(CN) ₆]. <i>Journal of Colloid and Interface Science</i> , 2017, 486, 153-162.	5.0	81
87	Pd nanocatalyst stabilized on amine-modified zeolite: Antibacterial and catalytic activities for environmental pollution remediation in aqueous medium. <i>Separation and Purification Technology</i> , 2020, 239, 116542.	3.9	81
88	Recent advances in nanomaterial development for lithium ion-sieving technologies. <i>Desalination</i> , 2022, 529, 115624.	4.0	77
89	Benign-by-design nature-inspired nanosystems in biofuels production and catalytic applications. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 112, 195-252.	8.2	76
90	Palladium nanoparticles stabilized on a novel Schiff base modified Unye bentonite: Highly stable, reusable and efficient nanocatalyst for treating wastewater contaminants and inactivating pathogenic microbes. <i>Separation and Purification Technology</i> , 2020, 237, 116383.	3.9	76

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91	Applications of Nanotechnology in Daily Life. <i>Interface Science and Technology</i> , 2019, , 113-143.	1.6	75
92	Progresses in chitin, chitosan, starch, cellulose, pectin, alginate, gelatin and gum based (nano)catalysts for the Heck coupling reactions: A review. <i>International Journal of Biological Macromolecules</i> , 2021, 192, 771-819.	3.6	74
93	Nano-Fe ₃ O ₄ @SiO ₂ supported Pd(0) as a magnetically recoverable nanocatalyst for Suzuki coupling reaction in the presence of waste eggshell as low-cost natural base. <i>Tetrahedron</i> , 2017, 73, 5624-5633.	1.0	72
94	Laser-assisted preparation of Pd nanoparticles on carbon cloth for the degradation of environmental pollutants in aqueous medium. <i>Chemosphere</i> , 2020, 246, 125755.	4.2	71
95	Valorisation of nuts biowaste: Prospects in sustainable bio(nano)catalysts and environmental applications. <i>Journal of Cleaner Production</i> , 2022, 347, 131220.	4.6	71
96	Synthesis, characterization, structural, optical properties and catalytic activity of reduced graphene oxide/copper nanocomposites. <i>RSC Advances</i> , 2015, 5, 10782-10789.	1.7	69
97	Facile and surfactant-free synthesis of Pd nanoparticles by the extract of the fruits of <i>Piper longum</i> and their catalytic performance for the Sonogashira coupling reaction in water under ligand- and copper-free conditions. <i>RSC Advances</i> , 2015, 5, 2562-2567.	1.7	69
98	Ultrasound-promoted green approach for the synthesis of sulfonamides using natural, stable and reusable Natrolite nanozeolite catalyst at room temperature. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 275-282.	3.8	67
99	Recent advances in <i>N</i> -formylation of amines and nitroarenes using efficient (nano)catalysts in eco-friendly media. <i>Green Chemistry</i> , 2019, 21, 5144-5167.	4.6	67
100	Preparation of a stable and robust nanobiocatalyst by efficiently immobilizing of pectinase onto cyanuric chloride-functionalized chitosan grafted magnetic nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2019, 536, 261-270.	5.0	67
101	A Review on Recent Advances in the Application of Nanocatalysts in S_N3 Coupling Reactions. <i>Chemical Record</i> , 2018, 18, 1409-1473.	2.9	65
102	Fabrication of g-C ₃ N ₄ /Au nanocomposite using laser ablation and its application as an effective catalyst in the reduction of organic pollutants in water. <i>Ceramics International</i> , 2021, 47, 3565-3572.	2.3	64
103	Polysaccharide-based (nano)materials for Cr(VI) removal. <i>International Journal of Biological Macromolecules</i> , 2021, 188, 950-973.	3.6	63
104	Electrochemical properties and electrocatalytic activity of conducting polymer/copper nanoparticles supported on reduced graphene oxide composite. <i>Journal of Power Sources</i> , 2014, 257, 300-307.	4.0	62
105	Facile synthesis of graphitic carbon nitride/chitosan/Au nanocomposite: A catalyst for electrochemical hydrogen evolution. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 3012-3024.	3.6	62
106	Efficient synthesis of arylaminotetrazoles in water. <i>Tetrahedron</i> , 2010, 66, 3866-3870.	1.0	60
107	Types of Nanostructures. <i>Interface Science and Technology</i> , 2019, 28, 29-80.	1.6	59
108	Trimetallic Nanoparticles: Greener Synthesis and Their Applications. <i>Nanomaterials</i> , 2020, 10, 1784.	1.9	59

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109	Silica-Supported Ferric Chloride (FeCl_3 - SiO_2): An Efficient and Recyclable Heterogeneous Catalyst for the Preparation of Arylamino-1,2,3,4-tetrazoles. <i>Synthetic Communications</i> , 2010, 40, 3159-3167.	1.1	58
110	<i>Anthemis xylo-poda</i> flowers aqueous extract assisted in situ green synthesis of Cu nanoparticles supported on natural Natrolite zeolite for N-formylation of amines at room temperature under environmentally benign reaction conditions. <i>Journal of Colloid and Interface Science</i> , 2015, 460, 146-153.	5.0	58
111	Magnetic Lignosulfonate-Supported Pd Complex: Renewable Resource-Derived Catalyst for Aqueous Suzuki-Miyaura Reaction. <i>ACS Omega</i> , 2019, 4, 14234-14241.	1.6	57
112	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.	0.8	56
113	Dynamic ^1H NMR spectroscopic study of the restricted SN rotation in aryl-N-(arylsulfonyl)-N-(triphenylphosphoranylidene)imidocarbamates. <i>Journal of Molecular Structure</i> , 2007, 841, 61-66.	1.8	54
114	Green synthesis of Cu/ Al_2O_3 nanoparticles as efficient and recyclable catalyst for reduction of 2,4-dinitrophenylhydrazine, Methylene blue and Congo red. <i>Composites Part B: Engineering</i> , 2019, 166, 112-119.	5.9	54
115	Cyanation of aryl halides and Suzuki-Miyaura coupling reaction using palladium nanoparticles anchored on developed biodegradable microbeads. <i>International Journal of Biological Macromolecules</i> , 2020, 148, 565-573.	3.6	54
116	Synthesis and characterization of novel Cu(II) complex coated Fe_3O_4 @ SiO_2 nanoparticles for catalytic performance. <i>Journal of Molecular Structure</i> , 2018, 1161, 453-463.	1.8	52
117	Carbon-based nanomaterials for targeted cancer nanotherapy: recent trends and future prospects. <i>Journal of Drug Targeting</i> , 2021, 29, 716-741.	2.1	52
118	A promising nanocatalyst: Upgraded Kraft lignin by titania and palladium nanoparticles for organic dyes reduction. <i>Inorganic Chemistry Communication</i> , 2021, 130, 108746.	1.8	52
119	Recent Advances in the Application of Heterogeneous Nanocatalysts for Sonogashira Coupling Reactions. <i>Current Organic Chemistry</i> , 2017, 21, 708-749.	0.9	52
120	P_2O_5 - SiO_2 as an efficient heterogeneous catalyst for the solvent-free synthesis of 1-substituted 1H-1,2,3,4-tetrazoles under conventional and ultrasound irradiation conditions. <i>Monatshefte für Chemie</i> , 2013, 144, 725-728.	0.9	51
121	Copper-Catalyzed N-Arylation of Sulfonamides with Boronic Acids in Water under Ligand-Free and Aerobic Conditions. <i>Synlett</i> , 2014, 25, 505-508.	1.0	51
122	Recent Developments in the Biosynthesis of Cu-Based Recyclable Nanocatalysts Using Plant Extracts and their Application in the Chemical Reactions. <i>Chemical Record</i> , 2019, 19, 601-643.	2.9	51
123	Lignin, lipid, protein, hyaluronic acid, starch, cellulose, gum, pectin, alginate and chitosan-based nanomaterials for cancer nanotherapy: Challenges and opportunities. <i>International Journal of Biological Macromolecules</i> , 2021, 178, 193-228.	3.6	51
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