

Mahmoud Nasrollahzadeh

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4568840/mahmoud-nasrollahzadeh-publications-by-citations.pdf>

Version: 2024-04-23

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.

298
papers

12,063
citations

70
h-index

93
g-index

332
ext. papers

14,641
ext. citations

5.9
avg, IF

7.71
L-index

#	Paper	IF	Citations
298	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, 249-58	9.3	199
297	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		191
296	<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, 272-9	9.3	179
295	FeCl ₃ /BiO 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	2	178
294	Starch, cellulose, pectin, gum, alginate, chitin and chitosan derived (nano)materials for sustainable water treatment: A review. <i>Carbohydrate Polymers</i> , 2021 , 251, 116986	10.3	174
293	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, 141-7	9.3	165
292	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	21.8	153
291	Waste-to-wealth: biowaste valorization into valuable bio(nano)materials. <i>Chemical Society Reviews</i> , 2019 , 48, 4791-4822	58.5	152
290	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 , 336, 21-26		138
289	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	3.7	136
288	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	5.1	135
287	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, 360-8	9.3	135
286	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	10.3	129
285	Green-synthesized nanocatalysts and nanomaterials for water treatment: Current challenges and future perspectives. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123401	12.8	124
284	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	5.7	120
283	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	9.3	118
282	<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	9.3	114

281	Green synthesis of Pd/CuO nanoparticles by Theobroma cacao 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, 106-13	9.3	113
280	Melissa Officinalis 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	8.3	111
279	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
278	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		109
277	Green synthesis of the Cu/Fe ₃ O ₄ nanoparticles using Morinda morindoides 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	6.7	108
276	Green synthesis of Pd nanoparticles at Apricot kernel shell substrate using Salvia hydrangea extract: Catalytic activity for reduction of organic dyes. <i>Journal of Colloid and Interface Science</i> , 2017 , 490, 1-10	9.3	105
275	Green synthesis of perlite supported silver nanoparticles using Hamamelis virginiana 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	5.7	105
274	Green synthesis of CuO nanoparticles by aqueous extract of Gundelia tournefortii 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, 245-53	9.3	103
273	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. <i>Journal of Colloid and Interface Science</i> , 2017 , 497, 33-42	9.3	102
272	Barberry fruit extract assisted in situ green synthesis of Cu nanoparticles supported on a reduced graphene oxide/Be 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	3.7	102
271	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
270	Cuscuta reflexa 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	5.3	101
269	Preparation of the GO/Pd nanocomposite and its application for the degradation of organic dyes in water. <i>Journal of Colloid and Interface Science</i> , 2017 , 496, 44-50	9.3	100
268	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. <i>RSC Advances</i> , 2015 , 5, 91372-91381	3.7	99
267	Green synthesis of CuO nanoparticles using aqueous extract of Thymus vulgaris L. leaves and their catalytic performance for N-arylation of indoles and amines. <i>Journal of Colloid and Interface Science</i> , 2016 , 466, 113-9	9.3	99
266	Biosynthesis of the palladium/sodium borosilicate nanocomposite using Euphorbia milii 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	5.1	95
265	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. <i>Journal of Colloid and Interface Science</i> , 2016 , 469, 93-98	9.3	95
264	Pd-based nanoparticles: Plant-assisted biosynthesis, characterization, mechanism, stability, catalytic and antimicrobial activities. <i>Advances in Colloid and Interface Science</i> , 2020 , 276, 102103	14.3	94

- 263 Green synthesis of CuO nanoparticles by aqueous extract of *Anthemis nobilis* flowers and their catalytic activity for the A³ coupling reaction. *Journal of Colloid and Interface Science*, **2015**, 459, 183-188^{9.3} 93
- 262 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 3.6 92
- 261 Preparation of the Ag/RGO nanocomposite by use of *Abutilon hirtum* leaf extract: A recoverable catalyst for the reduction of organic dyes in aqueous medium at room temperature. *International Journal of Hydrogen Energy*, **2016**, 41, 21236-21245 6.7 91
- 260 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 5.7 90
- 259 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, 173-9 9.3 90
- 258 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. *Journal of Molecular Catalysis A*, **2014**, 383-384, 17-22 90
- 257 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 9.3 89
- 256 Preparation, characterization and catalytic activity of CoFe₂O₄ nanoparticles as a magnetically recoverable catalyst for selective oxidation of benzyl alcohol to benzaldehyde and reduction of organic dyes. *Journal of Colloid and Interface Science*, **2016**, 465, 271-8 9.3 89
- 255 Green synthesis of a Cu/reduced graphene oxide/Fe₃O₄ nanocomposite using *Euphorbia wallichii* 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 3.7 88
- 254 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. *Green Chemistry*, **2011**, 13, 3499 10 87
- 253 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. *Carbohydrate Polymers*, **2020**, 241, 116353 10.3 86
- 252 Green synthesis, characterization and catalytic activity of the Pd/TiO₂ nanoparticles for the ligand-free Suzuki-Miyaura coupling reaction. *Journal of Colloid and Interface Science*, **2016**, 465, 121-7 9.3 85
- 251 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, 243-51 9.3 85
- 250 Graphene oxide supported Au nanoparticles as an efficient catalyst for reduction of nitro compounds and Suzuki-Miyaura coupling in water. *RSC Advances*, **2014**, 4, 48691-48697 3.7 85
- 249 Green synthesis of the Ag/HZSM-5 nanocomposite by using *Euphorbia heterophylla* leaf extract: A recoverable catalyst for reduction of organic dyes. *Journal of Alloys and Compounds*, **2016**, 685, 258-265^{5.7} 85
- 248 Journey on greener pathways: use of *Euphorbia condylocarpa* 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. *RSC Advances*, **2014**, 4, 43477-43484 3.7 84
- 247 Preparation of Au nanoparticles by *Anthemis xylopada* flowers aqueous extract and their application for alkyne/aldehyde/amine A³-type coupling reactions. *RSC Advances*, **2015**, 5, 46240-46246^{3.7} 84
- 246 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 10.3 83

245	Preparation of palladium nanoparticles using Euphorbia thymifolia L. leaf extract and evaluation of catalytic activity in the ligand-free Stille and Hiyama cross-coupling reactions in water. <i>New Journal of Chemistry</i> , 2015 , 39, 4745-4752	3.6	83
244	Euphorbia helioscopia 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	9.3	83
243	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. <i>RSC Advances</i> , 2015 , 5, 40628-40635	3.7	83
242	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	3.6	82
241	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	6.6	80
240	Preparation of Pd/Fe ₃ O ₄ nanoparticles by use of Euphorbia stracheyi 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, 147-52	9.3	80
239	Carbon-based sustainable nanomaterials for water treatment: State-of-art and future perspectives. <i>Chemosphere</i> , 2021 , 263, 128005	8.4	80
238	Synthesis and characterization of titanium dioxide nanoparticles using Euphorbia heteradena Jaub root extract and evaluation of their stability. <i>Ceramics International</i> , 2015 , 41, 14435-14439	5.1	78
237	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	6.6	78
236	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
235	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	2.4	77
234	Nanomaterials and Nanotechnology-Associated Innovations against Viral Infections with a Focus on Coronaviruses. <i>Nanomaterials</i> , 2020 , 10,	5.4	76
233	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		75
232	Biosynthesis, characterization and catalytic activity of Cu/RGO/FeO for direct cyanation of aldehydes with K[Fe(CN)]. <i>Journal of Colloid and Interface Science</i> , 2017 , 486, 153-162	9.3	74
231	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	6.3	73
230	Green synthesis of Pd/Fe ₃ O ₄ nanocomposite using Hibiscus tiliaceus L. extract and its application for reductive catalysis of Cr(VI) and nitro compounds. <i>Separation and Purification Technology</i> , 2018 , 197, 253-260	8.3	73
229	Green synthesis of Pd nanoparticles mediated by Euphorbia thymifolia 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	9.3	73
228	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	5.5	68

227	Green synthesis of Ni@Fe ₃ O ₄ and CuO nanoparticles using Euphorbia maculata extract as photocatalysts for the degradation of organic pollutants under UV-irradiation. <i>Ceramics International</i> , 2019 , 45, 17173-17182	5.1	68
226	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		68
225	Hibiscus Rosasinensis L. aqueous extract-assisted valorization of lignin: Preparation of magnetically reusable Pd NPs@FeO-lignin for Cr(VI) reduction and Suzuki-Miyaura reaction in eco-friendly media. <i>International Journal of Biological Macromolecules</i> , 2020 , 148, 265-275	7.9	63
224	Synthesis, characterization and catalytic activity of graphene oxide/ZnO nanocomposites. <i>RSC Advances</i> , 2014 , 4, 36713	3.7	63
223	Facile and surfactant-free synthesis of Pd nanoparticles by the extract of the fruits of Piper longum 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	3.7	62
222	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. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 109-117	11.3	62
221	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	8.9	62
220	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
219	Benign-by-design nature-inspired nanosystems in biofuels production and catalytic applications. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 112, 195-252	16.2	60
218	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	5.7	60
217	Synthesis, characterization, structural, optical properties and catalytic activity of reduced graphene oxide/copper nanocomposites. <i>RSC Advances</i> , 2015 , 5, 10782-10789	3.7	59
216	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	2.4	57
215	Silica-Supported Ferric Chloride (FeCl ₃ -SiO ₂): An Efficient and Recyclable Heterogeneous Catalyst for the Preparation of Arylamino-tetrazoles. <i>Synthetic Communications</i> , 2010 , 40, 3159-3167	1.7	56
214	Efficient synthesis of arylamino-tetrazoles in water. <i>Tetrahedron</i> , 2010 , 66, 3866-3870	2.4	56
213	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
212	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	8.9	54
211	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
210	An Introduction to Nanotechnology. <i>Interface Science and Technology</i> , 2019 , 28, 1-27	2.3	52

209	Green synthesis of copper nanoparticles using <i>Plantago asiatica</i> leaf extract and their application for the cyanation of aldehydes using KFe(CN). <i>Journal of Colloid and Interface Science</i> , 2017 , 506, 471-477	9.3	52
208	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	8.3	51
207	Dynamic ¹ H 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	3.4	51
206	<i>Anthemis xylopoda</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, 146-53	9.3	50
205	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	9.3	50
204	Green synthesis of a Cu/MgO nanocomposite by β . extract and investigation of its catalytic activity in the reduction of methylene blue, congo red and nitro compounds in aqueous media.. <i>RSC Advances</i> , 2018 , 8, 3723-3735	3.7	49
203	P2O5BiO2 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	1.4	49
202	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
201	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	8.3	47
200	Applications of Nanotechnology in Daily Life. <i>Interface Science and Technology</i> , 2019 , 113-143	2.3	46
199	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
198	Pd/CuO nanoparticles as a highly effective catalyst for the cyanation of aryl halides under ligand-free conditions. <i>Tetrahedron Letters</i> , 2016 , 57, 337-339	2	44
197	Fabrication, characterization and application of nanopolymer supported copper (II) complex as an effective and reusable catalyst for the CN bond cross-coupling reaction of sulfonamides with arylboronic acids in water under aerobic conditions. <i>Journal of Molecular Catalysis A</i> , 2014 , 387, 123-129		44
196	Palladium on nano-magnetite: a magnetically reusable catalyst in the ligand- and copper-free Sonogashira and Stille cross-coupling reactions. <i>RSC Advances</i> , 2014 , 4, 19731	3.7	44
195	Electrochemical and quantum chemical investigation of inhibitory of 1,4-Ph(OX) ₂ (Ts) ₂ on corrosion of 1005 aluminum alloy in acidic medium. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 4363-4370	6.3	44
194	Green synthesis, optical properties and catalytic activity of silver nanoparticles in the synthesis of N-monosubstituted ureas in water. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 132, 423-9	4.4	44
193	Copper-Catalyzed N-Arylation of Sulfonamides with Boronic Acids in Water under Ligand-Free and Aerobic Conditions. <i>Synlett</i> , 2014 , 25, 505-508	2.2	44
192	Recent Advances in the Application of Heterogeneous Nanocatalysts for Sonogashira Coupling Reactions. <i>Current Organic Chemistry</i> , 2017 , 21, 708-749	1.7	44

191	Synthesis of 6-substituted imidazo[2,1-b]thiazoles via Pd/Cu-mediated Sonogashira coupling in water. <i>Tetrahedron Letters</i> , 2009 , 50, 5459-5462	2	43
190	A Review on Recent Advances in the Application of Nanocatalysts in A Coupling Reactions. <i>Chemical Record</i> , 2018 , 18, 1409-1473	6.6	42
189	Preparation, optical properties and catalytic activity of TiO ₂ @Pd nanoparticles as heterogeneous and reusable catalysts for ligand-free Heck coupling reaction. <i>Journal of Molecular Catalysis A</i> , 2014 , 394, 205-210		42
188	AlCl ₃ as an Effective Lewis Acid for the Synthesis of Arylamino-tetrazoles. <i>Synthetic Communications</i> , 2011 , 41, 2135-2145	1.7	42
187	Green Nanotechnology. <i>Interface Science and Technology</i> , 2019 , 28, 145-198	2.3	41
186	Plant-Mediated Green Synthesis of Nanostructures: Mechanisms, Characterization, and Applications. <i>Interface Science and Technology</i> , 2019 , 28, 199-322	2.3	41
185	Natrolite zeolite supported copper nanoparticles as an efficient heterogeneous catalyst for the 1,3-dipolar cycloaddition and cyanation of aryl iodides under ligand-free conditions. <i>Journal of Colloid and Interface Science</i> , 2015 , 453, 237-243	9.3	41
184	Synthesis and catalytic activity of carbon supported copper nanoparticles for the synthesis of aryl nitriles and 1,2,3-triazoles. <i>RSC Advances</i> , 2015 , 5, 2785-2793	3.7	41
183	Synthesis and characterization of novel Cu(II) complex coated Fe ₃ O ₄ @SiO ₂ nanoparticles for catalytic performance. <i>Journal of Molecular Structure</i> , 2018 , 1161, 453-463	3.4	39
182	Synthesis of N-arylureas in water and their N-arylation with aryl halides using copper nanoparticles loaded on natural Natrolite zeolite under ligand-free conditions. <i>RSC Advances</i> , 2014 , 4, 26264	3.7	39
181	Catalytic and antimicrobial activities of magnetic nanoparticles supported N-heterocyclic palladium(II) complex: A magnetically recyclable catalyst for the treatment of environmental contaminants in aqueous media. <i>Separation and Purification Technology</i> , 2019 , 227, 115716	8.3	38
180	Electrosynthesis and absorbance spectra of TiO ₂ nanoparticles dispersed in the conductive polymer. <i>Applied Surface Science</i> , 2013 , 283, 1060-1064	6.7	38
179	Synthesis, characterization and application of Fe ₃ O ₄ @SiO ₂ nanoparticles supported palladium(II) complex as a magnetically catalyst for the reduction of 2,4-dinitrophenylhydrazine, 4-nitrophenol and chromium(VI): A combined theoretical (DFT) and experimental study. <i>Separation and Purification Technology</i> , 2019 , 209, 136-144	8.3	37
178	Silica supported perchloric acid (HClO ₄ /SiO ₂): an efficient reagent for the preparation of primary carbamates under solvent-free conditions. <i>Tetrahedron</i> , 2007 , 63, 8723-8726	2.4	37
177	Highly efficient reusable Pd nanoparticles based on eggshell: Green synthesis, characterization and their application in catalytic reduction of variety of organic dyes and ligand-free oxidative hydroxylation of phenylboronic acid at room temperature. <i>Tetrahedron</i> , 2017 , 73, 5613-5623	2.4	36
176	Types of Nanostructures. <i>Interface Science and Technology</i> , 2019 , 28, 29-80	2.3	36
175	Lignin-derived (nano)materials for environmental pollution remediation: Current challenges and future perspectives. <i>International Journal of Biological Macromolecules</i> , 2021 , 178, 394-423	7.9	36
174	Biosynthesis and application of Ag/bone nanocomposite for the hydration of cyanamides in Myrica gale L. extract as a green solvent. <i>Journal of Colloid and Interface Science</i> , 2017 , 499, 93-101	9.3	35

173	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	6.6	35
172	Synthesis of arylaminotetrazoles by ZnCl ₂ /AlCl ₃ /silica as an efficient heterogeneous catalyst. <i>Monatshefte für Chemie</i> , 2012 , 143, 925-930	1.4	35
171	Green synthesis of the Pd/perlite nanocomposite using Euphorbia neriifolia L. leaf extract and evaluation of its catalytic activity. <i>Separation and Purification Technology</i> , 2017 , 184, 298-307	8.3	34
170	In situ green synthesis of Cu-Ni bimetallic nanoparticles supported on reduced graphene oxide as an effective and recyclable catalyst for the synthesis of N-benzyl-N-aryl-5-amino-1H-tetrazoles. <i>Applied Organometallic Chemistry</i> , 2019 , 33, e4938	3.1	34
169	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	7.9	34
168	Electrochemical and optical properties of TiO ₂ nanoparticles/poly tyramine composite film. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 713, 91-97	4.1	34
167	Green synthesis of Cu/Al ₂ O 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	10	34
166	Biosynthesis, characterization and catalytic activity of the Pd/bentonite nanocomposite for base- and ligand-free oxidative hydroxylation of phenylboronic acid and reduction of chromium (VI) and nitro compounds. <i>Microporous and Mesoporous Materials</i> , 2018 , 271, 128-137	5.3	34
165	Preparation of carbon supported CuPd nanoparticles as novel heterogeneous catalysts for the reduction of nitroarenes and the phosphine-free Suzuki-Miyaura coupling reaction. <i>New Journal of Chemistry</i> , 2015 , 39, 1148-1153	3.6	33
164	Recent progresses in graphene-based (photo)catalysts for reduction of nitro compounds. <i>Molecular Catalysis</i> , 2020 , 484, 110758	3.3	33
163	FeO@SiO ₂ nanoparticle supported ionic liquid for green synthesis of antibacterially active 1-carbamoyl-1-phenylureas in water. <i>RSC Advances</i> , 2018 , 8, 27631-27644	3.7	32
162	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
161	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	7.9	32
160	Synthesis, characterization, magnetic and catalytic properties of graphene oxide/Fe ₃ O ₄ . <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 4974-4983	2.1	31
159	An efficient one-pot synthesis of 1,4-disubstituted 1,2,3-triazoles at room temperature by green synthesized Cu NPs using <i>Otostegia persica</i> leaf extract. <i>Journal of Colloid and Interface Science</i> , 2016 , 468, 156-162	9.3	31
158	Facile synthesis of Fe@Pd nanowires and their catalytic activity in ligand-free CN bond formation in water. <i>Tetrahedron Letters</i> , 2014 , 55, 2813-2817	2	31
157	Synthesis, characterization, antibacterial and catalytic activity of a nanopolymer supported copper(II) complex as a highly active and recyclable catalyst for the formamidation of arylboronic acids under aerobic conditions. <i>RSC Advances</i> , 2014 , 4, 20351	3.7	31
156	Synthesis of 1-Substituted 1,2,3,4-Tetrazoles Using Biosynthesized Ag/Sodium Borosilicate Nanocomposite. <i>ACS Omega</i> , 2019 , 4, 8985-9000	3.9	30

155	A heterogeneous and reusable nanopolymer-supported palladium catalyst for the copper- and phosphine-free Sonogashira coupling reaction under aerobic conditions in water. <i>Tetrahedron Letters</i> , 2014 , 55, 5298-5301	2	30
154	ZnO as an Effective and Reusable Heterogeneous Catalyst for the Synthesis of Arylamino-tetrazoles. <i>Synthetic Communications</i> , 2012 , 42, 2023-2032	1.7	29
153	Optimal extraction method of phenolics from the root of <i>Euphorbia condylocarpa</i> . <i>Chemistry of Natural Compounds</i> , 2011 , 47, 434-435	0.7	28
152	Efficient reduction of waste water pollution using GO/MnO ₂ /Pd nanocomposite as a highly stable and recoverable catalyst. <i>Separation and Purification Technology</i> , 2019 , 225, 33-40	8.3	27
151	Application of TiO ₂ nanoparticles for the synthesis of N-arylureas in water at room temperature. <i>RSC Advances</i> , 2014 , 4, 29089	3.7	27
150	Hybrid Au/Pd nanoparticles as reusable catalysts for Heck coupling reactions in water under aerobic conditions. <i>Tetrahedron Letters</i> , 2015 , 56, 500-503	2	27
149	Ultrasound-Promoted Regioselective Synthesis of 1-Aryl-5-amino-1H-tetrazoles. <i>Synlett</i> , 2012 , 23, 2795-2798	2.7	27
148	Solvent-free preparation of primary carbamates using silica sulfuric acid as an efficient reagent. <i>Arkivoc</i> , 2008 , 2007, 238-245	0.9	27
147	Synthesis of Aryl Nitriles using the Stable Aryl Diazonium Silica Sulfates. <i>Journal of Chemical Research</i> , 2012 , 36, 573-574	0.6	26
146	Preparation, characterization and application of nanosized CuO/HZSM-5 as an efficient and heterogeneous catalyst for the N-formylation of amines at room temperature. <i>Journal of Colloid and Interface Science</i> , 2016 , 471, 37-47	9.3	26
145	Green, near-infrared electroluminescence of novel yttrium tetrazole complexes. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 1337-1344	7.1	25
144	Unusual electroluminescence in ruthenium(II) tetrazole complexes. <i>RSC Advances</i> , 2013 , 3, 6323	3.7	25
143	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
142	In situ green synthesis of Cu nanoparticles supported on natural Natrolite zeolite for the reduction of 4-nitrophenol, congo red and methylene blue. <i>IET Nanobiotechnology</i> , 2017 , 11, 538-545	2	24
141	Recent advances in polymer supported palladium complexes as (nano)catalysts for Sonogashira coupling reaction. <i>Molecular Catalysis</i> , 2020 , 480, 110645	3.3	24
140	Green synthesis of the Ag/ZnO nanocomposite using <i>Valeriana officinalis</i> L. root extract: application as a reusable catalyst for the reduction of organic dyes in a very short time. <i>IET Nanobiotechnology</i> , 2017 , 11, 669-676	2	23
139	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	5.1	23
138	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

137	Facile synthesis of Ag/ZrO ₂ nanocomposite as a recyclable catalyst for the treatment of environmental pollutants. <i>Composites Part B: Engineering</i> , 2020 , 185, 107783	10	22
136	Recent progresses in the application of lignin derived (nano)catalysts in oxidation reactions. <i>Molecular Catalysis</i> , 2020 , 489, 110942	3.3	21
135	Ultrasound-promoted synthesis of novel 2-imino-3-aryl-2,3-dihydrobenzo[d]oxazol-5-ol 2-iminooxazolidines derivatives. <i>Tetrahedron</i> , 2013 , 69, 3082-3087	2.4	21
134	Journey on Greener Pathways via Synthesis of Pd/KB Polymeric Nanocomposite as a Recoverable Catalyst for the Ligand-Free Oxidative Hydroxylation of Phenylboronic Acid and SuzukiMiyaura Coupling Reaction in Green Solvents. <i>Catalysis Letters</i> , 2019 , 149, 169-179	2.8	21
133	Palladium nanoparticles supported on copper oxide as an efficient and recyclable catalyst for carbon(sp ²)-carbon(sp ²) cross-coupling reaction. <i>Materials Research Bulletin</i> , 2015 , 68, 150-154	5.1	20
132	SARS-CoV-2 (COVID-19): New Discoveries and Current Challenges. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3641	2.6	20
131	An ultrasound-promoted green approach for the N-formylation of amines under solvent- and catalyst-free conditions at room temperature. <i>Comptes Rendus Chimie</i> , 2013 , 16, 1008-1016	2.7	20
130	Recent developments in enzyme immobilization technology for high-throughput processing in food industries. <i>Critical Reviews in Food Science and Nutrition</i> , 2021 , 61, 3160-3196	11.5	20
129	Reduction of Cr(VI) and 4-nitrophenol in aqueous media using N-heterocyclic palladium complex immobilized on the nano Fe ₃ O ₄ @SiO ₂ as a magnetically recyclable catalyst. <i>Separation and Purification Technology</i> , 2019 , 211, 809-815	8.3	20
128	Biosynthesis and characterization of Ag/MgO nanocomposite and its catalytic performance in the rapid treatment of environmental contaminants. <i>Ceramics International</i> , 2020 , 46, 2093-2101	5.1	20
127	Efficient catalytic hydration of cyanamides in aqueous medium and in the presence of Naringin sulfuric acid or green synthesized silver nanoparticles by using Gongronema latifolium leaf extract. <i>Journal of Colloid and Interface Science</i> , 2017 , 503, 57-67	9.3	19
126	Biological Sources Used in Green Nanotechnology. <i>Interface Science and Technology</i> , 2019 , 28, 81-111	2.3	19
125	A Very Simple, Highly Efficient and Catalyst-free Procedure for the N-Formylation of Amines Using Triethyl orthoformate in Water Under Ultrasound-irradiation. <i>Letters in Organic Chemistry</i> , 2013 , 10, 209-212	0.6	18
124	Trimetallic Nanoparticles: Greener Synthesis and Their Applications. <i>Nanomaterials</i> , 2020 , 10,	5.4	18
123	Hybrid Pd/Fe ₃ O ₄ nanowires: Fabrication, characterization, optical properties and application as magnetically reusable catalyst for the synthesis of N-monosubstituted ureas under ligand-free conditions. <i>Materials Research Bulletin</i> , 2014 , 55, 168-175	5.1	17
122	Advances in Magnetic Nanoparticles-Supported Palladium Complexes for Coupling Reactions. <i>Molecules</i> , 2018 , 23,	4.8	17
121	Improving Wettability: Deposition of TiO ₂ Nanoparticles on the O Plasma Activated Polypropylene Membrane. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	16
120	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

119	High efficiency treatment of organic/inorganic pollutants using recyclable magnetic N-heterocyclic copper(II) complex and its antimicrobial applications. <i>Separation and Purification Technology</i> , 2020 , 238, 116403	8.3	16
118	A sustainable technique to solve growing energy demand: porous carbon nanoparticles as electrode materials for high-performance supercapacitors. <i>Journal of Applied Electrochemistry</i> , 2020 , 50, 1243-1255	2.6	16
117	Synthesis, characterization and catalytic activity of Fe ₃ O ₄ @SiO ₂ nanoparticles supported copper(II) complex as a magnetically recoverable catalyst for the reduction of nitro compounds, Nigrosin and Methylene blue. <i>Separation and Purification Technology</i> , 2018 , 203, 185-192	8.3	15
116	State-of-the-art technology: Recent investigations on laser-mediated synthesis of nanocomposites for environmental remediation. <i>Ceramics International</i> , 2021 , 47, 10389-10425	5.1	15
115	Carbon-based nanomaterials for targeted cancer nanotherapy: recent trends and future prospects. <i>Journal of Drug Targeting</i> , 2021 , 29, 716-741	5.4	15
114	Biosynthesis of the CuO nanoparticles using Euphorbia Chamaesyce leaf extract and investigation of their catalytic activity for the reduction of 4-nitrophenol. <i>IET Nanobiotechnology</i> , 2017 , 11, 766-772	2	14
113	Efficient catalytic reduction of nitroarenes and organic dyes in water by synthesized Ag/diatomite nanocomposite using Alocasia macrorrhiza leaf extract. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 17054-17066	2.1	14
112	Recent signs of progress in polymer-supported silver complexes/nanoparticles for remediation of environmental pollutants. <i>Journal of Molecular Liquids</i> , 2021 , 329, 115583	6	14
111	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	7.9	14
110	Green synthesis of the Ag/Al ₂ O ₃ nanoparticles using Bryonia alba leaf extract and their catalytic application for the degradation of organic pollutants. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 3847-3859	2.1	13
109	Euphorbia polygonifolia extract assisted biosynthesis of Fe ₃ O ₄ @CuO nanoparticles: Applications in the removal of metronidazole, ciprofloxacin and cephalixin antibiotics from aqueous solutions under UV irradiation. <i>Applied Organometallic Chemistry</i> , 2020 , 34, e5910	3.1	13
108	Graphene-based (nano)catalysts for the reduction of Cr(VI): A review. <i>Journal of Molecular Liquids</i> , 2021 , 334, 116123	6	13
107	Valorisation of nuts biowaste: Prospects in sustainable bio(nano)catalysts and environmental applications. <i>Journal of Cleaner Production</i> , 2022 , 347, 131220	10.3	13
106	Heterogenized Cu(II) complex of 5-aminotetrazole immobilized on graphene oxide nanosheets as an efficient catalyst for treating environmental contaminants. <i>Separation and Purification Technology</i> , 2020 , 247, 116952	8.3	12
105	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
104	Facile synthesis and electrochemical hydrogen storage of bentonite/TiO ₂ /Au nanocomposite. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 33771-33788	6.7	12
103	Synthesis, characterization and catalytic performance of Pd(II) complex immobilized on Fe ₃ O ₄ @SiO ₂ nanoparticles for the ligand-free cyanation of aryl halides using K ₄ Fe(CN) ₆ . <i>Applied Organometallic Chemistry</i> , 2019 , 33, e4730	3.1	11
102	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

101	Rapid and sensitive extraction of aflatoxins by Fe ₃ O ₄ /zeolite nanocomposite adsorbent in rice samples. <i>Microchemical Journal</i> , 2020 , 158, 105206	4.8	11
100	Valorisation of Fruits, their Juices and Residues into Valuable (Nano)materials for Applications in Chemical Catalysis and Environment. <i>Chemical Record</i> , 2020 , 20, 1338-1393	6.6	11
99	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
98	Synthesis of 5-substituted 1H-tetrazoles from aryl halides using nanopolymer-anchored palladium(II) complex as a new heterogeneous and reusable catalyst. <i>Monatshefte Für Chemie</i> , 2016 , 147, 2135-2142	1.4	11
97	Polysaccharide-based (nano)materials for Cr(VI) removal. <i>International Journal of Biological Macromolecules</i> , 2021 , 188, 950-973	7.9	11
96	Self-assembled lignosulfonate-inorganic hybrid nanoflowers and their application in catalytic reduction of methylene blue and 4-nitrophenol. <i>Separation and Purification Technology</i> , 2021 , 272, 118864	8.3	11
95	Recent advances in nanomaterial development for lithium ion-sieving technologies. <i>Desalination</i> , 2022 , 529, 115624	10.3	11
94	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
93	Facile preparation of nanostructured Pd-Schiff-FeOOH particles: A highly effective and easily retrievable catalyst for aryl halide cyanation and p-nitrophenol reduction. <i>Journal of Physics and Chemistry of Solids</i> , 2021 , 152, 109968	3.9	10
92	Biopolymer-derived (nano)catalysts for hydrogen evolution via hydrolysis of hydrides and electrochemical and photocatalytic techniques: A review. <i>International Journal of Biological Macromolecules</i> , 2021 , 182, 1056-1090	7.9	10
91	Efficient Sonogashira and A3 coupling reactions catalyzed by biosynthesized magnetic Fe ₃ O ₄ @Ni nanoparticles from Euphorbia maculata extract. <i>Applied Organometallic Chemistry</i> , 2020 , 34, e5473	3.1	9
90	Catalytic reduction of 2,4-dinitrophenylhydrazine by cuttlebone supported Pd NPs prepared using Conium maculatum leaf extract. <i>IET Nanobiotechnology</i> , 2018 , 12, 217-222	2	9
89	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	7.9	9
88	Pd nanoparticles loaded on modified chitosan-Unye bentonite microcapsules: A reusable nanocatalyst for Sonogashira coupling reaction. <i>Carbohydrate Polymers</i> , 2021 , 262, 117920	10.3	9
87	Pd/CoFe ₂ O ₄ /chitosan: A highly effective and easily recoverable hybrid nanocatalyst for synthesis of benzonitriles and reduction of 2-nitroaniline. <i>Journal of Physics and Chemistry of Solids</i> , 2021 , 149, 109772	3.9	9
86	A promising nanocatalyst: Upgraded Kraft lignin by titania and palladium nanoparticles for organic dyes reduction. <i>Inorganic Chemistry Communication</i> , 2021 , 130, 108746	3.1	9
85	Facile fabrication of magnetically separable palladium nanoparticles supported on modified kaolin as a highly active heterogeneous catalyst for Suzuki coupling reactions. <i>Journal of Physics and Chemistry of Solids</i> , 2020 , 146, 109566	3.9	8
84	Xylanase immobilization onto trichlorotriazine-functionalized polyethylene glycol grafted magnetic nanoparticles: A thermostable and robust nanobiocatalyst for fruit juice clarification. <i>International Journal of Biological Macromolecules</i> , 2020 , 163, 402-413	7.9	8

83	Low-cost and sustainable (nano)catalysts derived from bone waste: catalytic applications and biofuels production. <i>Biofuels, Bioproducts and Biorefining</i> , 2020 , 14, 1197-1227	5.3	8
82	Platinum and palladium complexes with tetrazole ligands: Synthesis, structure and applications. <i>Coordination Chemistry Reviews</i> , 2021 , 446, 214132	23.2	8
81	Progresses in polysaccharide and lignin-based ionic liquids: Catalytic applications and environmental remediation. <i>Journal of Molecular Liquids</i> , 2021 , 342, 117559	6	8
80	Green Synthesis of Palladium/Titanium Dioxide Nanoparticles and their Application for the Reduction of Methyl Orange, Congo Red and Rhodamine B in Aqueous Medium. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2017 , 20, 787-795	1.3	7
79	Hardystonite/palladium nanocomposite as a high performance catalyst for electrochemical hydrogen storage and Cr(VI) reduction. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 25175-25188	6.7	7
78	Novel magnetic lignosulfonate-supported Pd complex as an efficient nanocatalyst for N-arylation of 4-methylbenzenesulfonamide. <i>International Journal of Biological Macromolecules</i> , 2021 , 182, 564-573	7.9	7
77	Preparation of magnetic chitosan-supported palladium-5-amino-1H-tetrazole complex as a magnetically recyclable catalyst for Suzuki-Miyaura coupling reaction in green media. <i>Journal of Molecular Structure</i> , 2021 , 1244, 130873	3.4	7
76	Catalytic activity and antibacterial properties of nanopolymer-supported copper complex for C-N coupling reactions of amines and nitrogen-containing heterocycles with aryl halides. <i>Monatshefte für Chemie</i> , 2015 , 146, 1329-1334	1.4	6
75	Recent progresses in polymer supported cobalt complexes/nanoparticles for sustainable and selective oxidation reactions. <i>Molecular Catalysis</i> , 2020 , 484, 110775	3.3	6
74	Silica Sulfuric Acid as an Efficient Heterogeneous Catalyst for the Solvent-Free Synthesis of 1-Substituted 1H-1,2,3,4-Tetrazoles. <i>Journal of Chemistry</i> , 2013 , 2013, 1-4	2.3	6
73	Green synthesis of palladium nanocatalyst derived from the Cyclodextrin used as effective heterogeneous catalyst for cyanation of aryl halides. <i>Inorganic Chemistry Communication</i> , 2020 , 119, 1083-117	3.17	6
72	Polymer supported copper complexes/nanoparticles for treatment of environmental contaminants. <i>Journal of Molecular Liquids</i> , 2021 , 330, 115668	6	6
71	Facile synthesis of Pd nanoparticles supported on a novel Schiff base modified chitosan-kaolin: Antibacterial and catalytic activities in Sonogashira coupling reaction. <i>Journal of Organometallic Chemistry</i> , 2021 , 945, 121849	2.3	6
70	Green synthesis of Cu/zirconium silicate nanocomposite by using Rubia tinctorum leaf extract and its application in the preparation of N-benzyl-N-arylcyanamides. <i>Applied Organometallic Chemistry</i> , 2018 , 33, e4705	3.1	6
69	Use of tetrazoles in catalysis and energetic applications: Recent developments. <i>Molecular Catalysis</i> , 2021 , 513, 111788	3.3	6
68	Copper(II) complex anchored on magnetic chitosan functionalized trichlorotriazine: An efficient heterogeneous catalyst for the synthesis of tetrazole derivatives. <i>Colloids and Interface Science Communications</i> , 2021 , 44, 100471	5.4	6
67	Bentonite-supported furfural-based Schiff base palladium nanoparticles: an efficient catalyst in treatment of water/wastewater pollutants. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 12856-12871	2.1	5
66	Synthesis of 6-Substituted Imidazo[2,1-b][1,3]thiazoles and 2-Substituted Imidazo[2,1-b][1,3]benzothiazoles via Pd/Cu-Mediated Sonogashira Coupling. <i>Synlett</i> , 2009 , 2009, 2601-2604	2.2	5

65	Polydopamine-coated magnetic Spirulina nanocomposite for efficient magnetic dispersive solid-phase extraction of aflatoxins in pistachio.. <i>Food Chemistry</i> , 2021 , 377, 131967	8.5	5
64	Phytosynthesis of Cu/rGO using extract and study of its ability in the reduction of organic dyes and 4-nitrophenol in aqueous medium. <i>IET Nanobiotechnology</i> , 2019 , 13, 202-213	2	5
63	Synthesised magnetic nano-zeolite as a mycotoxins binder to reduce the toxicity of aflatoxins, zearalenone, ochratoxin A, and deoxynivalenol in barley. <i>IET Nanobiotechnology</i> , 2020 , 14, 623-627	2	5
62	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
61	Biomass valorization: Sulfated lignin-catalyzed production of 5-hydroxymethylfurfural from fructose. <i>International Journal of Biological Macromolecules</i> , 2021 , 182, 59-64	7.9	5
60	Biosynthesis of Cu/Fe ₃ O ₄ nanoparticles using Alhagi camelorum aqueous extract and their catalytic activity in the synthesis of 2-imino-3-aryl-2,3-dihydrobenzo[d]oxazol-5-ol derivatives. <i>Journal of Molecular Structure</i> , 2021 , 1228, 129731	3.4	5
59	Cu(II)-N-benzyl-amino-1H-tetrazole complex immobilized on magnetic chitosan as a highly effective nanocatalyst for C-N coupling reactions. <i>Journal of Organometallic Chemistry</i> , 2021 , 950, 121959	2.3	5
58	Lignin valorization: Facile synthesis, characterization and catalytic activity of multiwalled carbon nanotubes/kraft lignin/Pd nanocomposite for environmental remediation. <i>Separation and Purification Technology</i> , 2022 , 290, 120793	8.3	5
57	Cyanation of Aryl and Heteroaryl Aldehydes Using In-Situ-Synthesized Ag Nanoparticles in Crocus sativus L. Extract. <i>ChemistrySelect</i> , 2019 , 4, 1127-1130	1.8	4
56	Photocatalytic decomposition of VOCs by Ag ₂ O and EG ₂ O ₂ nanocomposites. <i>Clean Technologies and Environmental Policy</i> , 2019 , 21, 1259-1268	4.3	4
55	Basic Chemistry and Biomedical Significance of Nanomaterials 2019 , 31-70		4
54	Risks of Nanotechnology to Human Life. <i>Interface Science and Technology</i> , 2019 , 323-336	2.3	4
53	Biowaste- and nature-derived (nano)materials: Biosynthesis, stability and environmental applications.. <i>Advances in Colloid and Interface Science</i> , 2022 , 301, 102599	14.3	4
52	Green Synthesis of Silica and Silicon Nanoparticles and Their Biomedical and Catalytic Applications. <i>Comments on Inorganic Chemistry</i> , 2021 , 1-56	3.9	4
51	Insights into the hydrogen adsorption on deposited graphene oxide by zirconia and gold nanoparticles. <i>Journal of Physics and Chemistry of Solids</i> , 2021 , 154, 110061	3.9	4
50	Chitosan supported 1-phenyl-1H-tetrazole-5-thiol ionic liquid copper(II) complex as an efficient catalyst for the synthesis of arylaminotetrazoles. <i>Journal of Molecular Liquids</i> , 2021 , 341, 117398	6	4
49	Functionalized-Graphene and Graphene Oxide: Fabrication and Application in Catalysis 2019 , 661-727		3
48	One-pot green synthesis of Cu/bone nanocomposite and its catalytic activity in the synthesis of 1-substituted 1H-1,2,3,4-tetrazoles and reduction of hazardous pollutants. <i>Applied Organometallic Chemistry</i> , 2019 , 33, e5097	3.1	3

47	Functionalization of chitosan by grafting Cu(II)-5-amino-1H-tetrazole complex as a magnetically recyclable catalyst for C-N coupling reaction. <i>Inorganic Chemistry Communication</i> , 2022 , 136, 109135	3.1	3
46	Mannich-mediated synthesis of a recyclable magnetic kraft lignin-coated copper nanostructure as an efficient catalyst for treatment of environmental contaminants in aqueous media. <i>Separation and Purification Technology</i> , 2022 , 285, 120373	8.3	3
45	Phosphate removal from aqueous solutions using magnetic multi-walled carbon nanotube; optimization by response surface methodology 2017 , 82, 271-281		3
44	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
43	Recent developments in polymer-supported ruthenium nanoparticles/complexes for oxidation reactions. <i>Journal of Organometallic Chemistry</i> , 2021 , 933, 121658	2.3	3
42	Synthesis of biopolymer-based metal nanoparticles 2021 , 255-316		3
41	Catalytic applications of biopolymer-based metal nanoparticles 2021 , 423-516		3
40	Polysaccharide biopolymer chemistry 2021 , 45-105		3
39	Grafting Schiff base Cu(II) complex on magnetic graphene oxide as an efficient recyclable catalyst for the synthesis of 4H-pyrano[2,3-b]pyridine-3-carboxylate derivatives. <i>Materials Chemistry and Physics</i> , 2022 , 284, 126053	4.4	3
38	Advances in Carbon Nitride-Based Materials and Their Electrocatalytic Applications. <i>ACS Catalysis</i> , 2022 , 12, 5605-5660	13.1	3
37	Lignosulfonate valorization into a Cu-containing magnetically recyclable photocatalyst for treating wastewater pollutants in aqueous media. <i>Chemosphere</i> , 2022 , 135180	8.4	3
36	Modification of Chitosan Membranes via Methane Ion Beam. <i>Molecules</i> , 2020 , 25,	4.8	2
35	Fabrication and Application of Graphene Oxide-based Metal and Metal Oxide Nanocomposites 2019 , 25-52		2
34	Sulfonic acid-functionalized silica: a remarkably efficient heterogeneous reusable catalyst for the one-pot synthesis of 1,4-dihydropyridines		2
33	Greener hydrophilicity improvement of polypropylene membrane by ArF excimer laser treatment. <i>Surface and Coatings Technology</i> , 2020 , 399, 126198	4.4	2
32	Polysaccharides in food industry 2021 , 47-96		2
31	Physicochemical characterization of biopolymer-based metal nanoparticles 2021 , 317-478		2
30	Biosynthesis of Pd/MnO ₂ nanocomposite using <i>Solanum melongena</i> plant extract and its application for the one-pot synthesis of 5-substituted 1H-tetrazoles from aryl halides. <i>Applied Organometallic Chemistry</i> , 2018 , 33, e4698	3.1	2

29	Synthesis and characterization of Pd(0) Schiff base complex supported on halloysite nanoclay as a reusable catalyst for treating wastewater contaminants in aqueous media. <i>Optik</i> , 2021 , 238, 166672	2.5	2
28	Synthesis of novel N-aryl-N-(1H-tetrazol-5-yl)benzenesulfonamides in water. <i>Applied Organometallic Chemistry</i> , 2020 , 34, e5706	3.1	1
27	Efficient synthesis of novel 3-imino-2-phenylisoindolin-1-one derivatives under ultrasound irradiation. <i>Journal of the Iranian Chemical Society</i> , 1	2	1
26	Polystyrene immobilized Brønsted acid ionic liquid as an efficient and recyclable catalyst for the synthesis of 5-hydroxymethylfurfural from fructose. <i>Journal of Molecular Liquids</i> , 2022 , 345, 117811	6	1
25	Polymer surfaces adorning ligand-coordinated palladium for hydrogenation reactions. <i>Molecular Catalysis</i> , 2020 , 494, 111129	3.3	1
24	Synthesis of magnetic chitosan supported metformin-Cu(II) complex as a recyclable catalyst for N-arylation of primary sulfonamides. <i>Journal of Organometallic Chemistry</i> , 2021 , 121915	2.3	1
23	Application of biopolymers in bioplastics 2021 , 1-44		1
22	Food packaging applications of biopolymer-based (nano)materials 2021 , 137-186		1
21	Proteins in food industry 2021 , 97-136		1
20	Environmental applications of biopolymer-based (nano)materials 2021 , 517-572		1
19	Biomedical applications of biopolymer-based (nano)materials 2021 , 189-332		1
18	Iran@ agricultural waste.. <i>Science</i> , 2022 , 375, 984-985	33.3	1
17	Micro- and nanotechnology in biomedical engineering for cartilage tissue regeneration in osteoarthritis.. <i>Beilstein Journal of Nanotechnology</i> , 2022 , 13, 363-389	3	1
16	Copper complex stabilized on magnetic lignosulfonate: a magnetically recyclable catalyst for removal of wastewater contaminants. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	0
15	N-Formylation of amines using arylhydrazones of malononitrile and a Cu(II) complex under eco-friendly conditions at room temperature. <i>Inorganica Chimica Acta</i> , 2020 , 513, 119938	2.7	0
14	Lignin chemistry and valorization 2021 , 145-183		0
13	An introduction to green chemistry 2021 , 3-22		0
12	Biopolymer-based metal nanoparticles for biosensing 2021 , 573-608		0

11	Valorization of lignin: antibacterial and catalytic activities of copper complex stabilized on magnetic lignosulfonate for N-formylation of amines under solvent-free conditions. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	○
10	Laser-assisted synthesis of bentonite/Pd nanocomposite and its electrochemical hydrogen storage capacity. <i>Microporous and Mesoporous Materials</i> , 2021 , 328, 111439	5.3	○
9	Biopolymer-based (nano)materials for supercapacitor applications 2021 , 609-671		○
8	Magnetic chitosan stabilized Cu(II)-tetrazole complex: an effective nanocatalyst for the synthesis of 3-imino-2-phenylisoindolin-1-one derivatives under ultrasound irradiation.. <i>Scientific Reports</i> , 2022 , 12, 6724	4.9	○
7	Facile synthesis of Cu nanoparticles supported on magnetic lignin-chitosan blend as a highly effective catalyst for the preparation of 5-aryl-1H-tetrazoles. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	
6	Protein and polypeptide biopolymer chemistry 2021 , 107-144		
5	Toxicity of biopolymer-based (nano)materials 2021 , 215-229		
4	Biopolymer-based (nano)materials for hydrogen storage 2021 , 673-701		
3	Biodegradability properties of biopolymers 2021 , 231-251		
2	Biopolymers: Production to consumption 2021 , 23-42		
1	Polylactic acid and polyhydroxybutyrate chemistry 2021 , 185-211		