Ali Maleki

List of Publications by Citations

317 papers	10,085 citations	55 h-index	81 g-index
375 ext. papers	12,442 ext. citations	4.3 avg, IF	7.59 L-index

#	Paper	IF	Citations
317	Fe3O4/SiO2 nanoparticles: an efficient and magnetically recoverable nanocatalyst for the one-pot multicomponent synthesis of diazepines. *Tetrahedron*, **2012**, 68, 7827-7833	2.4	230
316	Potassium phthalimide-N-oxyl: a novel, efficient, and simple organocatalyst for the one-pot three-component synthesis of various 2-amino-4H-chromene derivatives in water. *Tetrahedron*, **2013**, 69, 1074-1085	2.4	211
315	Green oxidation protocol: Selective conversions of alcohols and alkenes to aldehydes, ketones and epoxides by using a new multiwall carbon nanotube-based hybrid nanocatalyst via ultrasound irradiation. *Ultrasonics Sonochemistry*, **2018**, 40, 460-464	8.9	210
314	One-pot multicomponent synthesis of diazepine derivatives using terminal alkynes in the presence of silica-supported superparamagnetic iron oxide nanoparticles. *Tetrahedron Letters*, **2013**, 54, 2055-2059	2	204
313	Carbon based nanomaterials for tissue engineering of bone: Building new bone on small black scaffolds: A review. *Journal of Advanced Research*, **2019**, 18, 185-201	13	173
312	Recent progress of isocyanide-based multicomponent reactions in Iran. *Molecular Diversity*, **2011**, 15, 41-68	3.1	171
311	A green, porous and eco-friendly magnetic geopolymer adsorbent for heavy metals removal from aqueous solutions. *Journal of Cleaner Production*, **2019**, 215, 1233-1245	10.3	166
310	A historical overview of the activation and porosity of metal-organic frameworks. *Chemical Society Reviews*, **2020**, 49, 7406-7427	58.5	158
309	One-pot three-component synthesis of pyrido[2?,1?:2,3]imidazo[4,5-c]isoquinolines using Fe3O4@SiO2□SO3H as an efficient heterogeneous nanocatalyst. *RSC Advances*, **2014**, 4, 64169-64173	3.7	138
308	Ionic liquid promoted one-pot synthesis of 3-aminoimidazo[1,2-a]pyridines. *Tetrahedron Letters*, **2006**, 47, 3031-3034	2	124
307	Magnetic cellulose/Ag as a novel eco-friendly nanobiocomposite to catalyze synthesis of chromene-linked nicotinonitriles. *Carbohydrate Polymers*, **2017**, 156, 259-267	10.3	123
306	Eco-friendly functionalization of magnetic halloysite nanotube with SO3H for synthesis of dihydropyrimidinones. *Microporous and Mesoporous Materials*, **2018**, 259, 46-53	5.3	120
305	Effects of squeeze casting parameters on density, macrostructure and hardness of LM13 alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2006**, 428, 135-140	5.3	118
304	Cellulose sulfuric acid as a bio-supported and recyclable solid acid catalyst for the one-pot three-component synthesis of □-amino nitriles. *Applied Catalysis A: General*, **2007**, 331, 149-151	5.1	116
303	Graphene oxide□chitosan bionanocomposite: a highly efficient nanocatalyst for the one-pot three-component synthesis of trisubstituted imidazoles under solvent-free conditions. *RSC Advances*, **2015**, 5, 33177-33184	3.7	110
302	A review of syntheses of 1,5-disubstituted tetrazole derivatives. *Molecular Diversity*, **2015**, 19, 189-212	3.1	109
301	Click Reaction: Highly Efficient Synthesis of 2,3-Dihydroquinazolin-4(1H)-ones. *Synthetic Communications*, **2008**, 38, 3751-3759	1.7	107

300	Fe3O4@cellulose composite nanocatalyst: Preparation, characterization and application in the synthesis of benzodiazepines. *Catalysis Communications*, **2014**, 53, 67-71	3.2	100
299	Synthesis of tetrazoles via isocyanide-based reactions. *RSC Advances*, **2015**, 5, 60938-60955	3.7	97
298	Chitosan-supported Fe3O4 nanoparticles: a magnetically recyclable heterogeneous nanocatalyst for the syntheses of multifunctional benzimidazoles and benzodiazepines. *RSC Advances*, **2014**, 4, 9416	3.7	93
297	Magnetic guanidinylated chitosan nanobiocomposite: A green catalyst for the synthesis of 1,4-dihydropyridines. *International Journal of Biological Macromolecules*, **2018**, 116, 320-326	7.9	88
296	Facile synthesis of tetrahydrobenzoxanthenones via a one-pot three-component reaction using an eco-friendly and magnetized biopolymer chitosan-based heterogeneous nanocatalyst. *Applied Organometallic Chemistry*, **2016**, 30, 939-942	3.1	88
295	Ultrasonic treatment of CoFeO@BO-SiO as a new hybrid magnetic composite nanostructure and catalytic application in the synthesis of dihydroquinazolinones. *Ultrasonics Sonochemistry*, **2017**, 37, 260-266	8.9	86
294	Design, synthesis, characterization and catalytic performance of a new cellulose-based magnetic nanocomposite in the one-pot three-component synthesis of □aminonitriles. *Applied Organometallic Chemistry*, **2016**, 30, 382-386	3.1	86
293	Recent advances in the application of mesoporous silica-based nanomaterials for bone tissue engineering. *Materials Science and Engineering C*, **2020**, 107, 110267	8.3	84
292	Green cellulose-based nanocomposite catalyst: Design and facile performance in aqueous synthesis of pyranopyrimidines and pyrazolopyranopyrimidines. *Carbohydrate Polymers*, **2017**, 175, 409-416	10.3	83
291	A novel isocyanide-based three-component reaction: synthesis of highly substituted 1,6-dihydropyrazine-2,3-dicarbonitrile derivatives. *Journal of Organic Chemistry*, **2007**, 72, 6309-11	4.2	83
290	Poly(ethylene imine)-modified magnetic halloysite nanotubes: A novel, efficient and recyclable catalyst for the synthesis of dihydropyrano[2,3-c]pyrazole derivatives. *Molecular Catalysis*, **2018**, 460, 87-93	3.3	81
289	Palladium-decorated o-phenylenediamine-functionalized Fe3O4/SiO2 magnetic nanoparticles: A promising solid-state catalytic system used for Suzuki□Miyaura coupling reactions. *Journal of Physics and Chemistry of Solids*, **2020**, 136, 109200	3.9	79
288	Design and development of a novel cellulose/□Fe2O3/Ag nanocomposite: a potential green catalyst and antibacterial agent. *RSC Advances*, **2016**, 6, 13657-13665	3.7	78
287	Cellulose sulfuric acid catalyzed one-pot three-component synthesis of imidazoazines. *Chemical and Pharmaceutical Bulletin*, **2007**, 55, 957-8	1.9	74
286	Green in water sonochemical synthesis of tetrazolopyrimidine derivatives by a novel core-shell magnetic nanostructure catalyst. *Ultrasonics Sonochemistry*, **2018**, 43, 262-271	8.9	73
285	Efficient oxidation and epoxidation using a chromium(VI)-based magnetic nanocomposite. *Environmental Chemistry Letters*, **2016**, 14, 195-199	13.3	73
284	Design, preparation and characterization of urea-functionalized Fe3O4/SiO2 magnetic nanocatalyst and application for the one-pot multicomponent synthesis of substituted imidazole derivatives. *Catalysis Communications*, **2015**, 69, 29-33	3.2	72
283	Cellulose matrix embedded copper decorated magnetic bionanocomposite as a green catalyst in the synthesis of dihydropyridines and polyhydroquinolines. *Carbohydrate Polymers*, **2019**, 208, 251-260	10.3	72

282	Facile Peptide Bond Formation: Effective Interplay between Isothiazolone Rings and Silanol Groups at Silver/Iron Oxide Nanocomposite Surfaces. *ACS Omega*, **2019**, 4, 10629-10639	3.9	71
281	Synthesis of Benzimidazolo[2,3-b]quinazolinone Derivatives via a One-pot Multicomponent Reaction Promoted by a Chitosan-based Composite Magnetic Nanocatalyst. *Chemistry Letters*, **2015**, 44, 259-261	1.7	69
280	Green multicomponent synthesis of four different classes of six-membered N-containing and O-containing heterocycles catalyzed by an efficient chitosan-based magnetic bionanocomposite. *Pure and Applied Chemistry*, **2018**, 90, 387-394	2.1	68
279	Preparation and characterization of an eco-friendly ZnFe2O4@alginic acid nanocomposite catalyst and its application in the synthesis of 2-amino-3-cyano-4H-pyran derivatives. *Polyhedron*, **2019**, 171, 193-202	2.7	66
278	Novel isocyanide-based three-component synthesis of 3,4-dihydroquinoxalin-2-amine derivatives. *ACS Combinatorial Science*, **2008**, 10, 323-6		66
277	Multicomponent synthesis of pyrano[2,3-d]pyrimidine derivatives via a direct one-pot strategy executed by novel designed copperated Fe3O4@polyvinyl alcohol magnetic nanoparticles. *Materials Today Chemistry*, **2019**, 13, 110-120	6.2	65
276	A novel one-pot pseudo-five-component synthesis of 4,5,6,7-tetrahydro-1H-1,4-diazepine-5-carboxamide derivatives. *Journal of Organic Chemistry*, **2008**, 73, 3925-7	4.2	64
275	Enhanced activity of vancomycin by encapsulation in hybrid magnetic nanoparticles conjugated to a cell-penetrating peptide. *Nanoscale*, **2020**, 12, 3855-3870	7.7	64
274	A novel biocompatible core-shell magnetic nanocomposite based on cross-linked chitosan hydrogels for in vitro hyperthermia of cancer therapy. *International Journal of Biological Macromolecules*, **2019**, 140, 407-414	7.9	63
273	Effects of squeeze casting parameters on the microstructure of LM13 alloy. *Journal of Materials Processing Technology*, **2009**, 209, 3790-3797	5.3	63
272	Recent advances on nanomaterial based electrochemical and optical aptasensors for detection of cancer biomarkers. *TrAC - Trends in Analytical Chemistry*, **2018**, 100, 103-115	14.6	62
271	An Efficient Magnetic Heterogeneous Nanocatalyst for the Synthesis of Pyrazinoporphyrazine Macrocycles. *Polycyclic Aromatic Compounds*, **2018**, 38, 402-409	1.3	62
270	Surface functionalization of magnetic nanoparticles via palladium-catalyzed Diels-Alder approach. *ChemistrySelect*, **2018**, 3, 13057-13062	1.8	62
269	Fe3O4@SiO2@TiO2-OSO3H: an efficient hierarchical nanocatalyst for the organic quinazolines syntheses. *Journal of Porous Materials*, **2017**, 24, 1481-1496	2.4	61
268	Preparation and characterization of a silica-based magnetic nanocomposite and its application as a recoverable catalyst for the one-pot multicomponent synthesis of quinazolinone derivatives. *Applied Organometallic Chemistry*, **2015**, 29, 809-814	3.1	61
267	Synergistic catalytic effect between ultrasound waves and pyrimidine-2,4-diamine-functionalized magnetic nanoparticles: Applied for synthesis of 1,4-dihydropyridine pharmaceutical derivatives. *Ultrasonics Sonochemistry*, **2019**, 59, 104737	8.9	59
266	Ultrasonic assisted synergetic green synthesis of polycyclic imidazo(thiazolo)pyrimidines by using FeO@clay core-shell. *Ultrasonics Sonochemistry*, **2017**, 38, 585-589	8.9	59
265	Synthesis of Imidazo[1,2-a]pyridines Using Fe3O4@SiO2 as an Efficient Nanomagnetic Catalyst via a One-Pot Multicomponent Reaction. *Helvetica Chimica Acta*, **2014**, 97, 587-593	2	59

264	Synthesis of fully substituted pyrazolo[3,4-b]pyridine-5-carboxamide derivatives via a one-pot four-component reaction. *Tetrahedron Letters*, **2009**, 50, 2911-2913	2	58
263	Facile in situ synthesis and characterization of a novel PANI/Fe3O4/Ag nanocomposite and investigation of catalytic applications. *RSC Advances*, **2016**, 6, 98777-98787	3.7	57
262	An efficient synthesis of benzodiazepine derivatives via a one-pot, three-component reaction accelerated by a chitosan-supported superparamagnetic iron oxide nanocomposite. *Tetrahedron Letters*, **2014**, 55, 6931-6934	2	55
261	Dengue virus: a review on advances in detection and trends - from conventional methods to novel biosensors. *Mikrochimica Acta*, **2019**, 186, 329	5.8	54
260	A novel magnetically recyclable silver-loaded cellulose-based bionanocomposite catalyst for green synthesis of tetrazolo[1,5-a]pyrimidines. *Research on Chemical Intermediates*, **2017**, 43, 5485-5494	2.8	53
259	Mesoporous halloysite nanotubes modified by CuFeO spinel ferrite nanoparticles and study of its application as a novel and efficient heterogeneous catalyst in the synthesis of pyrazolopyridine derivatives. *Scientific Reports*, **2019**, 9, 5552	4.9	51
258	Synthesis of dihydroquinazolinone and octahydroquinazolinone and benzimidazoloquinazolinone derivatives catalyzed by an efficient magnetically recoverable GO-based nanocomposite. *Journal of Porous Materials*, **2018**, 25, 1789-1796	2.4	51
257	Xanthan sulfuric acid: A new and efficient bio-supported solid acid catalyst for the synthesis of α-amino nitriles by condensation of carbonyl compounds, amines, and trimethylsilylcyanide. *Catalysis Communications*, **2009**, 10, 945-949	3.2	51
256	Enhanced reduction of nitrobenzene derivatives: Effective strategy executed by Fe3O4/PVA-10%Ag as a versatile hybrid nanocatalyst. *Catalysis Communications*, **2020**, 134, 105850	3.2	49
255	Ultrasonic-Assisted Preparation, Characterization, and Use of Novel Biocompatible Core/Shell FeO@GA@Isinglass in the Synthesis of 1,4-Dihydropyridine and 4-Pyran Derivatives. *ACS Omega*, **2018**, 3, 5012-5020	3.9	49
254	Adsorbent materials based on a geopolymer paste for dye removal from aqueous solutions. *Arabian Journal of Chemistry*, **2020**, 13, 3017-3025	5.9	48
253	High-performance sono/nano-catalytic system: CTSN/FeO-Cu nanocomposite, a promising heterogeneous catalyst for the synthesis of -arylimidazoles.. *RSC Advances*, **2019**, 9, 40348-40356	3.7	47
252	Microwave assisted synthesis of metal-free phthalocyanine and metallophthalocyanines. *Dyes and Pigments*, **2007**, 74, 279-282	4.6	46
251	Magnetic dextrin nanobiomaterial: An organic-inorganic hybrid catalyst for the synthesis of biologically active polyhydroquinoline derivatives by asymmetric Hantzsch reaction. *Materials Science and Engineering C*, **2020**, 109, 110502	8.3	46
250	Multi-Stimuli Nanocomposite Therapeutic: Docetaxel Targeted Delivery and Synergies in Treatment of Human Breast Cancer Tumor. *Small*, **2020**, 16, e2002733	11	46
249	Novel syntheses of tetrahydrobenzodiazepines and dihydropyrazines via isocyanide-based multicomponent reactions of diamines. *ACS Combinatorial Science*, **2010**, 12, 186-90		45
248	Novel multicomponent one-pot synthesis of tetrahydro-1H-1,5-benzodiazepine-2-carboxamide derivatives. *ACS Combinatorial Science*, **2008**, 10, 595-8		45
247	Rapid Synthesis of 3-Aminoimidazo[1,2-a]Pyridines and Pyrazines. *Synthetic Communications*, **2008**, 38, 1090-1095	1.7	45

246	Development of an aluminum/amorphous nano-SiO2 composite using powder metallurgy and hot extrusion processes. *Ceramics International*, **2017**, 43, 14582-14592	5.1	44
245	Efficient one-pot four-component synthesis of 1,4-dihydropyridines promoted by magnetite/chitosan as a magnetically recyclable heterogeneous nanocatalyst. *Journal of Nanostructure in Chemistry*, **2015**, 5, 95-105	7.6	44
244	Novel Leaking-Free, Green, Double Core/Shell, Palladium-Loaded Magnetic Heterogeneous Nanocatalyst for Selective Aerobic Oxidation. *Catalysis Letters*, **2018**, 148, 2929-2934	2.8	44
243	Preparation of a novel magnetic bionanocomposite based on factionalized chitosan by creatine and its application in the synthesis of polyhydroquinoline, 1,4-dyhdropyridine and 1,8-dioxo-decahydroacridine derivatives. *International Journal of Biological Macromolecules*, **2020**, 144, 29-46	7.9	44
242	A brief survey on the advanced brain drug administration by nanoscale carriers: With a particular focus on AChE reactivators. *Life Sciences*, **2020**, 240, 117099	6.8	44
241	Fe3O4@PEG-SO3H rod-like morphology along with the spherical nanoparticles: novel green nanocomposite design, preparation, characterization and catalytic application. *RSC Advances*, **2016**, 6, 110928-110934	3.7	44
240	Amine-Functionalized Silica-Supported Magnetic Nanoparticles: Preparation, Characterization and Catalytic Performance in the Chromene Synthesis. *Journal of Inorganic and Organometallic Polymers and Materials*, **2017**, 27, 714-719	3.2	42
239	Recent progress in optical and electrochemical biosensors for sensing of Clostridium botulinum neurotoxin. *TrAC - Trends in Analytical Chemistry*, **2018**, 103, 184-197	14.6	42
238	Bionanostructure-catalyzed one-pot three-component synthesis of 3,4-dihydropyrimidin-2(1H)-one derivatives under solvent-free conditions. *Reactive and Functional Polymers*, **2016**, 109, 120-124	4.6	42
237	Green and efficient synthesis of quinoxaline derivatives via ceric ammonium nitrate promoted and in situ aerobic oxidation of alpha-hydroxy ketones and alpha-keto oximes in aqueous media. *Chemical and Pharmaceutical Bulletin*, **2008**, 56, 79-81	1.9	42
236	Synthesis and characterization of an acidic nanostructure based on magnetic polyvinyl alcohol as an efficient heterogeneous nanocatalyst for the synthesis of □-aminonitriles. *Journal of Organometallic Chemistry*, **2019**, 881, 58-65	2.3	42
235	Synthesis and characterization of magnetic dichromate hybrid nanomaterials with triphenylphosphine surface modified iron oxide nanoparticles (Fe3O4@SiO2@PPh3@Cr2O72□ *Solid State Sciences*, **2014**, 28, 9-13	3.4	41
234	One-Pot Three-Component Synthesis of 3-Aminoimidazo[1,2-a]pyridines and -pyrazines in the Presence of Silica Sulfuric Acid. *Monatshefte F□ Chemie*, **2007**, 138, 73-76	1.4	41
233	Synergistic photocatalytic effect between green LED light and Fe3O4/ZnO-modified natural pumice: A novel cleaner product for degradation of methylene blue. *Materials Research Bulletin*, **2020**, 130, 110946	5.1	41
232	High CO2 Adsorption on Amine-Functionalized Improved Mesoporous Silica Nanotube as an Eco-Friendly Nanocomposite. *Energy & Fuels*, **2019**, 33, 5384-5397	4.1	40
231	Synthesis and characterization of magnetic bromochromate hybrid nanomaterials with triphenylphosphine surface-modified iron oxide nanoparticles and their catalytic application in multicomponent reactions. *RSC Advances*, **2014**, 4, 29765	3.7	40
230	High-performance sono/nano-catalytic system: FeO@Pd/CaCO-DTT core/shell nanostructures, a suitable alternative for traditional reducing agents for antibodies. *Ultrasonics Sonochemistry*, **2020**, 61, 104824	8.9	40
229	Metal-based nanoparticles for bone tissue engineering. *Journal of Tissue Engineering and Regenerative Medicine*, **2020**, 14, 1687-1714	4.4	40

228	Sonochemical rate enhanced by a new nanomagnetic embedded core/shell nanoparticles and catalytic performance in the multicomponent synthesis of pyridoimidazoisoquinolines. *Ultrasonics Sonochemistry*, **2017**, 38, 115-119	8.9	39
227	Synthesis and characterization of the novel diamine-functionalized Fe3O4@SiO2 nanocatalyst and its application for one-pot three-component synthesis of chromenes. *Applied Organometallic Chemistry*, **2018**, 32, e3916	3.1	39
226	Tandem Oxidation Process Using Ceric Ammonium Nitrate: Three-Component Synthesis of Trisubstituted Imidazoles Under Aerobic Oxidation Conditions. *Synthetic Communications*, **2008**, 39, 102-110	1.7	39
225	Ultrasound-assisted synthesis of 1,4-dihydropyridine derivatives by an efficient volcanic-based hybrid nanocomposite. *Solid State Sciences*, **2020**, 101, 106141	3.4	38
224	Metal oxide electron transport materials for perovskite solar cells: a review. *Environmental Chemistry Letters*, **2021**, 19, 2185-2207	13.3	38
223	Preparation and characterization of silica-supported magnetic nanocatalyst and application in the synthesis of 2-amino-4H-chromene-3-carbonitrile derivatives. *Inorganic and Nano-Metal Chemistry*, **2017**, 47, 917-924	1.2	37
222	Ultrasonic-assisted environmentally-friendly synergetic synthesis of nitroaromatic compounds in core/shell nanoreactor: A green protocol. *Ultrasonics Sonochemistry*, **2017**, 39, 534-539	8.9	36
221	Design and preparation of ZnS-ZnFe2O4: a green and efficient hybrid nanocatalyst for the multicomponent synthesis of 2,4,5-triaryl-1H-imidazoles. *Applied Organometallic Chemistry*, **2019**, 33, e5008	3.1	36
220	Convenient Cr(VI) Removal from Aqueous Samples: Executed by a Promising Clay-Based Catalytic System, Magnetized by Fe3O4 Nanoparticles and Functionalized with Humic Acid. *ChemistrySelect*, **2020**, 5, 2441-2448	1.8	36
219	Cellulose sulfuric acid: An efficient biopolymer-based catalyst for the synthesis of oxazolines, imidazolines and thiazolines under solvent-free conditions. *Applied Catalysis A: General*, **2009**, 358, 146-149	5.1	36
218	Surface modified SPIONs-Cr(VI) ions-immobilized organic-inorganic hybrid as a magnetically recyclable nanocatalyst for rapid synthesis of polyhydroquinolines under solvent-free conditions at room temperature. *Applied Organometallic Chemistry*, **2018**, 32, e4245	3.1	35
217	Diketene as an alternative substrate for a new Biginelli-like multicomponent reaction: one-pot synthesis of 5-carboxamide substituted 3,4-dihydropyrimidine-2(1H)ones. *Tetrahedron*, **2010**, 66, 4040-4042	2.4	35
216	L-Proline functionalized magnetic nanoparticles: A novel magnetically reusable nanocatalyst for one-pot synthesis of 2,4,6-triarylpyridines. *Scientific Reports*, **2018**, 8, 17303	4.9	35
215	Facile synthesis of tetrazolo[1,5-a]pyrimidine with the aid of an effective gallic acid nanomagnetic catalyst. *Polyhedron*, **2019**, 167, 103-110	2.7	34
214	Agar: a natural and environmentally-friendly support composed of copper oxide nanoparticles for the green synthesis of 1,2,3-triazoles. *Green Chemistry Letters and Reviews*, **2019**, 12, 395-406	4.7	34
213	Highly efficient protocol for the aromatic compounds nitration catalyzed by magnetically recyclable core/shell nanocomposite. *Journal of the Iranian Chemical Society*, **2017**, 14, 485-490	2	33
212	Development of Green Geopolymer Using Agricultural and Industrial Waste Materials with High Water Absorbency. *Applied Sciences (Switzerland)*, **2017**, 7, 514	2.6	33
211	An efficient synthesis of 4H-chromene, 4H-pyran, and oxepine derivatives via one-pot three-component tandem reactions. *Tetrahedron Letters*, **2012**, 53, 6977-6981	2	33

210	Fe O4/GO@melamine-ZnO nanocomposite: A promising versatile tool for organic catalysis and electrical capacitance. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2020**, 587, 124335	5.1	33
209	A new generation of star polymer: magnetic aromatic polyamides with unique microscopic flower morphology and in vitro hyperthermia of cancer therapy. *Journal of Materials Science*, **2020**, 55, 319-336	4.3	33
208	A novel poly(ethyleneoxide)-based magnetic nanocomposite catalyst for highly efficient multicomponent synthesis of pyran derivatives. *Green Chemistry Letters and Reviews*, **2018**, 11, 573-582	4.7	33
207	Synthesis and characterization of ceramic nanoparticles reinforced lead-free solder. *Ceramics International*, **2017**, 43, 5302-5310	5.1	32
206	Design and development of a new functionalized cellulose-based magnetic nanocomposite: preparation, characterization, and catalytic application in the synthesis of diverse pyrano[2,3-c]pyrazole derivatives. *Journal of the Iranian Chemical Society*, **2019**, 16, 1459-1472	2	32
205	Facile route to synthesize FeO@acacia-SOH nanocomposite as a heterogeneous magnetic system for catalytic applications.. *RSC Advances*, **2020**, 10, 40055-40067	3.7	32
204	Alginate hydrogel-polyvinyl alcohol/silk fibroin/magnesium hydroxide nanorods: A novel scaffold with biological and antibacterial activity and improved mechanical properties. *International Journal of Biological Macromolecules*, **2020**, 162, 1959-1971	7.9	32
203	Ultrasonic-assisted synthesis and in vitro biological assessments of a novel herceptin-stabilized graphene using three dimensional cell spheroid. *Ultrasonics Sonochemistry*, **2019**, 58, 104615	8.9	31
202	Synthesis and characterization of a supported Pd complex on volcanic pumice laminates textured by cellulose for facilitating Suzuki-Miyaura cross-coupling reactions.. *RSC Advances*, **2020**, 10, 23359-23371	3.7	31
201	Twin Roll Casting of Steels: An Overview. *ISIJ International*, **2017**, 57, 1-14	1.7	31
200	Magnetic Aluminosilicate Nanoclay: a Natural and Efficient Nanocatalyst for the Green Synthesis of 4H-Pyran Derivatives. *Silicon*, **2019**, 11, 2789-2798	2.4	31
199	MgFe2O4/cellulose/SO3H nanocomposite: a new biopolymer-based nanocatalyst for one-pot multicomponent syntheses of polysubstituted tetrahydropyridines and dihydropyrimidinones. *Journal of the Iranian Chemical Society*, **2017**, 14, 1801-1813	2	30
198	Method screening for conjugation of the small molecules onto the vinyl-coated Fe3O4/silica nanoparticles: highlighting the efficiency of ultrasonication. *Materials Research Express*, **2020**, 7, 015067	1.7	30
197	Graphene oxide/alginate/silk fibroin composite as a novel bionanostructure with improved blood compatibility, less toxicity and enhanced mechanical properties. *Carbohydrate Polymers*, **2020**, 248, 116802	10.3	30
196	Ultrasound-assisted diversion of nitrobenzene derivatives to their aniline equivalents through a heterogeneous magnetic Ag/Fe3O4-IT nanocomposite catalyst. *New Journal of Chemistry*, **2020**, 44, 19827-19835	3.6	30
195	Pumice-modified cellulose fiber: An environmentally benign solid state hybrid catalytic system for the synthesis of 2,4,5-triarylimidazole derivatives. *Journal of Physics and Chemistry of Solids*, **2020**, 142, 109443	3.9	29
194	Photocatalytic degradation of p-nitrophenol and methylene blue using Zn-TCPP/Ag doped mesoporous TiO2 under UV and visible light irradiation. *Desalination and Water Treatment*, **2016**, 57, 25848-25856		29
193	Facile Synthesis of 7-Aryl-benzo[h]tetrazolo[5,1-b]quinazoline-5,6-dione Fused Polycyclic Compounds by Using a Novel Magnetic Polyurethane Catalyst. *Polycyclic Aromatic Compounds*, **2019** , 39, 266-278	1.3	29

192	High-performance HTL-free perovskite solar cell: An efficient composition of ZnO NRs, RGO, and CuInS2 QDs, as electron-transporting layer matrix. *Progress in Photovoltaics: Research and Applications*, **2020**, 28, 956-970	6.8	28
191	Synthesis and characterization of copper porphyrin into SBA-16 through "ship in a bottle" method: A catalyst for photo oxidation reaction under visible light. *Solid State Sciences*, **2015**, 46, 7-13	3.4	28
190	A green, and eco-friendly bionanocomposite film (poly(vinyl alcohol)/TiO2/chitosan/chlorophyll) by photocatalytic ability, and antibacterial activity under visible-light irradiation. *Journal of Photochemistry and Photobiology A: Chemistry*, **2021**, 404, 112906	4.7	28
189	MCM-41 mesoporous silica: a highly efficient and recoverable catalyst for rapid synthesis of α-aminonitriles and imines. *Green Chemistry Letters and Reviews*, **2018**, 11, 36-46	4.7	27
188	New one-pot four-component synthesis of disubstituted pyrido[2,3-d]pyrimidine-6-carboxamide derivatives. *ACS Combinatorial Science*, **2009**, 11, 375-7		27
187	Ionic Liquid Promoted One-Pot Three-Component Reaction: Synthesis of Annulated Imidazo[1,2-a]azines Using Trimethylsilylcyanide. *Monatshefte Für Chemie*, **2007**, 138, 51-56	1.4	27
186	A Mild, Efficient and Highly Selective Oxidation of Sulfides to Sulfoxides Catalyzed by Lewis Acid–Urea–Hydrogen Peroxide Complex at Room Temperature. *Catalysis Letters*, **2017**, 147, 2173-2177	2.8	26
185	Tin(II) Chloride Dihydrate Catalyzed Groebke Condensation: An Efficient Protocol for the Synthesis of 3-Aminoimidazo[1,2-a]pyridines. *Chinese Journal of Chemistry*, **2009**, 27, 369-371	4.9	26
184	Synthesis of nickel nanoparticles by a green and convenient method as a magnetic mirror with antibacterial activities. *Scientific Reports*, **2020**, 10, 12627	4.9	26
183	Design and preparation of FeO@PVA polymeric magnetic nanocomposite film and surface coating by sulfonic acid via in situ methods and evaluation of its catalytic performance in the synthesis of dihydropyrimidines. *BMC Chemistry*, **2019**, 13, 19	3.7	25
182	Sulfonated Fe3O4@PVA superparamagnetic nanostructure: Design, in-situ preparation, characterization and application in the synthesis of imidazoles as a highly efficient organic–inorganic Bronsted acid catalyst. *Nano Structures Nano Objects*, **2019**, 18, 100264	5.6	25
181	Biomedical applications of nanoflares: Targeted intracellular fluorescence probes. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2019**, 17, 342-358	6	25
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