Ali Maleki

List of Publications by Year
in descending order

330 papers	14,926 citations	14124 69 h-index	40945 97 g-index
376 all docs	376 docs citations	376 times ranked	8811 citing authors

#	Article	IF	Citations
1	Novel eco-friendly acacia gum-grafted-polyamidoxime@copper ferrite nanocatalyst for synthesis of pyrazolopyridine derivatives. Journal of Nanostructure in Chemistry, 2023, 13, 451-462.	5.3	5
2	Synthesis and characterization of cellulose, Î²-cyclodextrin, silk fibroin-based hydrogel containing copper-doped cobalt ferrite nanospheres and exploration of its biocompatibility. Journal of Nanostructure in Chemistry, 2023, 13, 103-113.	5.3	10
3	In situ Al-SiOC composite fabricated by in situ pyrolysis of a silicone polymer gel in aluminum melt. International Journal of Metalcasting, 2022, 16, 1327-1346.	1.5	3
4	Effects of increasing powder layer thickness on the microstructure, mechanical properties, and failure mechanism of IN718 superalloy fabricated by laser powder bed fusion. International Journal of Advanced Manufacturing Technology, 2022, 118, 1703-1717.	1.5	15
5	The impact of ZrO2/SiO2 and ZrO2/SiO2@PANI nanofluid on the performance of pulsating heat pipe, an experimental study. Journal of Nanostructure in Chemistry, 2022, 12, 1089-1104.	5.3	7
6	A versatile nanocomposite made of Cd/Cu, chlorophyll and PVA matrix utilized for photocatalytic degradation of the hazardous chemicals and pathogens for wastewater treatment. Journal of Molecular Structure, 2022, 1256, 132456.	1.8	10
7	Magnetic graphene oxideâ€“lignin nanobiocomposite: a novel, eco-friendly and stable nanostructure suitable for hyperthermia in cancer therapy. RSC Advances, 2022, 12, 3593-3601.	1.7	21
8	Review: the latest advances in biomedical applications of chitosan hydrogel as a powerful natural structure with eye-catching biological properties. Journal of Materials Science, 2022, 57, 3855-3891.	1.7	34
9	Efficient remediation of chlorpyrifos pesticide from contaminated water by superparamagnetic adsorbent based on Arabic gum-grafted-polyamidoxime. International Journal of Biological Macromolecules, 2022, 203, 445-456.	3.6	43
10	Functionalized hybrid magnetic catalytic systems on micro- and nanoscale utilized in organic synthesis and degradation of dyes. Nanoscale Advances, 2022, 4, 1263-1307.	2.2	34
11	Assessment of catalytic and antibacterial activity of biocompatible agar supported ZnS/CuFe2O4 magnetic nanotubes. Scientific Reports, 2022, 12, 4503.	1.6	9
12	Convenient synthesis of dipeptide structures in solution phase assisted by a thioaza functionalized magnetic nanocatalyst. Scientific Reports, 2022, 12, 4719.	1.6	8
13	Efficient removal of Pb(II)/Cu(II) from aqueous samples by a guanidine-functionalized SBA-15/Fe3O4. Separation and Purification Technology, 2022, 291, 120956.	3.9	47
14	Applications of carbon-based conductive nanomaterials in biosensors. Chemical Engineering Journal, 2022, 442, 136183.	6.6	111
15	Cefixime-Containing Silica Nanoseeds Coated by a Hybrid PVA-Gold Network with a Cysâ€“Arg Dipeptide Conjugation: Enhanced Antimicrobial and Drug Release Properties. Langmuir, 2022, 38, 132-146.	1.6	19
16	Functionalized graphene oxide nanosheets with folic acid and silk fibroin as a novel nanobiocomposite for biomedical applications. Scientific Reports, 2022, 12, 6205.	1.6	20
17	Modification of PVDF membranes by incorporation Fe3O4@Xanthan gum to improve anti-fouling, anti-bacterial, and separation performance. Journal of Environmental Chemical Engineering, 2022, 10, 107784.	3.3	28
18	Manufacturing and characterization of Snâ€“Cu/SiO2np lead-free nanocomposite solder by accumulative roll bonding (ARB) process. Journal of Materials Science: Materials in Electronics, 2022, 33, 13516-13530.	1.1	1

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19	Adsorption Equilibrium, Thermodynamic, and Kinetic Study of O₂/N₂/CO₂ on Functionalized Granular Activated Carbon. ACS Omega, 2022, 7, 18409-18426.	1.6	22
20	A novel, bioactive and antibacterial scaffold based on functionalized graphene oxide with lignin, silk fibroin and ZnO nanoparticles. Scientific Reports, 2022, 12, .	1.6	9
21	Nanoscale bioconjugates: A review of the structural attributes of drug-loaded nanocarrier conjugates for selective cancer therapy. Heliyon, 2022, 8, e09577.	1.4	24
22	Synthesis of Cu(OH) ₂ nanowires modified by Fe ₃ O ₄ @SiO ₂ nanocomposite via green and innovative method with antibacterial activity and investigation of magnetic behaviours. Royal Society Open Science, 2022, 9, .	1.1	2
23	Magnetic carboxymethyl cellulose/silk fibroin hydrogel embedded with halloysite nanotubes as a biocompatible nanobiocomposite with hyperthermia application. Materials Chemistry and Physics, 2022, 287, 126347.	2.0	19
24	Design, synthesis, and characterization of novel eco-friendly chitosan-AgIO3 bionanocomposite and study its antibacterial activity. Scientific Reports, 2022, 12, .	1.6	8
25	Functionalization of magnetic nanoparticles by creatine as a novel and efficient catalyst for the green synthesis of 2-amino-4H-chromene derivatives. Scientific Reports, 2022, 12, .	1.6	11
26	Biocompatibility and Antimicrobial Investigation of Agar-Tannic Acid Hydrogel Reinforced with Silk Fibroin and Zinc Manganese Oxide Magnetic Microparticles. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 4057-4069.	1.9	9
27	Recent advances on biomedical applications of pectin-containing biomaterials. International Journal of Biological Macromolecules, 2022, 217, 1-18.	3.6	28
28	Green, Natural and Low Cost Xanthum Gum Supported Fe₃O₄ as a Robust Biopolymer Nanocatalyst for the One-Pot Synthesis of 2-Amino-3-Cyano-4H-Pyran Derivatives. Polycyclic Aromatic Compounds, 2021, 41, 1953-1971.	1.4	31
29	Development of Aluminium-Nanoclay Composite by Using Powder Metallurgy and Hot Extrusion Process. Metals and Materials International, 2021, 27, 3681-3694.	1.8	15
30	Design, Facile Synthesis and Characterization of Porphyrin-Zirconium-Ferrite@SiO2 Core-Shell and Catalytic Application in Cyclohexane Oxidation. Silicon, 2021, 13, 451-465.	1.8	11
31	Micromechanical simulation and experimental investigation of aluminum-based nanocomposites. Defence Technology, 2021, 17, 196-201.	2.1	6
32	Preparation and study of the catalytic application in the synthesis of xanthenedione pharmaceuticals of a hybrid nano-system based on copper, zinc and iron nanoparticles. Research on Chemical Intermediates, 2021, 47, 973-996.	1.3	25
33	Experimental study on classical and metaheuristics algorithms for optimal nano-chitosan concentration selection in surface coating and food packaging. Food Chemistry, 2021, 335, 127681.	4.2	7
34	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.	2.0	56
35	Multi-attribute failure analysis of coal cutting picks on longwall shearer machine. Engineering Failure Analysis, 2021, 120, 105069.	1.8	19
36	Studies on effective interaction parameters in extraction of Pr and Nd using Aliquat 336 from NdFeB magnet-leaching solution: Multiple response optimizations by desirability function. Journal of Molecular Liquids, 2021, 324, 115123.	2.3	9

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37	Metal oxide electron transport materials for perovskite solar cells: a review. Environmental Chemistry Letters, 2021, 19, 2185-2207.	8.3	98
38	Chitosan hydrogel/silk fibroin/Mg(OH)2 nanobiocomposite as a novel scaffold with antimicrobial activity and improved mechanical properties. Scientific Reports, 2021, 11, 650.	1.6	90
39	Investigation of the biological activity, mechanical properties and wound healing application of a novel scaffold based on ligninâ€“agarose hydrogel and silk fibroin embedded zinc chromite nanoparticles. RSC Advances, 2021, 11, 17914-17923.	1.7	68
40	Magnetic nanocatalysts utilized in the synthesis of aromatic pharmaceutical ingredients. New Journal of Chemistry, 2021, 45, 4135-4146.	1.4	28
41	Palladium-coated thiourea core-shell nanocomposite as a new, efficient, and magnetic responsive nanocatalyst for the Suzuki-Miyaura coupling reactions. Materials Research Express, 2021, 8, 026102.	0.8	6
42	Facile synthesis of imidazoles by an efficient and eco-friendly heterogeneous catalytic system constructed of Fe3O4 and Cu2O nanoparticles, and guarana as a natural basis. Inorganic Chemistry Communication, 2021, 125, 108465.	1.8	35
43	Clean One-Pot Multicomponent Synthesis of Pyrans Using a Green and Magnetically Recyclable Heterogeneous Nanocatalyst. SynOpen, 2021, 05, 100-103.	0.8	6
44	A numerical investigation into the magnetic nanoparticles hyperthermia cancer treatment injection strategies. Biocybernetics and Biomedical Engineering, 2021, 41, 516-526.	3.3	12
45	Design and synthesis of a new magnetic aromatic organo-silane star polymer with unique nanoplate morphology and hyperthermia application. Journal of Nanostructure in Chemistry, 2021, 11, 751-767.	5.3	13
46	Bifunctional PVA/ZnO/AgI/Chlorophyll Nanocomposite Film: Enhanced Photocatalytic Activity for Degradation of Pollutants and Antimicrobial Property under Visible-Light Irradiation. Langmuir, 2021, 37, 4700-4713.	1.6	61
47	Immobilization of La on THH-CO2H@Fe3O4 nanocomposite for the synthesis of oneâ€pot multicomponent reactions. Materials Research Express, 2021, 8, 056101.	0.8	4
48	A comparative study on the effects of increase in injection sites on the magnetic nanoparticles hyperthermia. Journal of Drug Delivery Science and Technology, 2021, 63, 102542.	1.4	17
49	Transient Liquid Phase Bonding of Al-2%Nanoclay Composite: Microstructural Characterization and Mechanical Properties. Transactions of the Indian Institute of Metals, 2021, 74, 2285-2295.	0.7	0
50	Design and synthesis of a novel nanocomposite based on magnetic dopamine nanoparticles for purification of Î±-amylase from the bovine milk. Scientific Reports, 2021, 11, 13428.	1.6	9
51	Effective Combination of rGO and CuO Nanomaterials through Poly(p-phenylenediamine) Texture: Utilizing It as an Excellent Supercapacitor. Energy & Fuels, 2021, 35, 10869-10877.	2.5	49
52	Hybrid Bionanocomposite Containing Magnesium Hydroxide Nanoparticles Embedded in a Carboxymethyl Cellulose Hydrogel Plus Silk Fibroin as a Scaffold for Wound Dressing Applications. ACS Applied Materials & Interfaces, 2021, 13, 33840-33849.	4.0	77
53	Magnetic Copper Ferrite Nanoparticles Functionalized by Aromatic Polyamide Chains for Hyperthermia Applications. Langmuir, 2021, 37, 8847-8854.	1.6	38
54	Magnetized melamineâ€modified polyacrylonitrile (PAN@melamine/Fe₃O₄) organometallic nanomaterial: Preparation, characterization, and application as a multifunctional catalyst in the synthesis of bioactive dihydropyrano [2,3â€c]pyrazole and 2â€aminoâ€3â€cyano 4Hâ€pyran derivatives. Applied Organometallic Chemistry, 2021, 35, e6363.	1.7	35

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55	Plasmonic photothermal release of docetaxel by gold nanoparticles incorporated onto halloysite nanotubes with conjugated 2D8-E3 antibodies for selective cancer therapy. Journal of Nanobiotechnology, 2021, 19, 239.	4.2	45
56	Functionalized magnetic nanoparticles for the separation and purification of proteins and peptides. TrAC - Trends in Analytical Chemistry, 2021, 141, 116291.	5.8	70
57	Green synthesis of silica nanoparticles from olive residue and investigation of their anticancer potential. Nanomedicine, 2021, 16, 1581-1593.	1.7	19
58	Development of Predictive Models for Activated Carbon Synthesis from Different Biomass for CO₂ Adsorption Using Artificial Neural Networks. Industrial & Engineering Chemistry Research, 2021, 60, 13950-13966.	1.8	49
59	Manufacturing and Characterization of Sn-0.6Al Lead-Free Composite Solder Using Accumulative Extrusion Process. Journal of Electronic Materials, 2021, 50, 6372-6385.	1.0	2
60	Pectin-cellulose hydrogel, silk fibroin and magnesium hydroxide nanoparticles hybrid nanocomposites for biomedical applications. International Journal of Biological Macromolecules, 2021, 192, 7-15.	3.6	44
61	Magnetic hybrid nanocatalysts. , 2021, , 619-636.		8
62	Highly porous copper-supported magnetic nanocatalysts: made of volcanic pumice textured by cellulose and applied for the reduction of nitrobenzene derivatives. RSC Advances, 2021, 11, 25284-25295.	1.7	21
63	Green and eco-friendly mica/Fe₃O₄as an efficient nanocatalyst for the multicomponent synthesis of 2-amino-4H-chromene derivatives. Green Chemistry Letters and Reviews, 2021, 14, 62-72.	2.1	23
64	Guanidinylated SBA-15/Fe3O4 mesoporous nanocomposite as an efficient catalyst for the synthesis of pyranopyrazole derivatives. Scientific Reports, 2021, 11, 19852.	1.6	30
65	Novel magnetic organicâ€“inorganic hybrids based on aromatic polyamides and ZnFe2O4 nanoparticles with biological activity. Scientific Reports, 2021, 11, 20310.	1.6	16
66	Fe3O4@chitosan-tannic acid bionanocomposite as a novel nanocatalyst for the synthesis of pyranopyrazoles. Scientific Reports, 2021, 11, 20021.	1.6	40
67	Trihydrazinotriazine-grafting Fe3O4/SiO2 core-shell nanoparticles with expanded porous structure for organic reactions. Frontiers of Chemical Science and Engineering, 2021, 15, 1008-1020.	2.3	11
68	The effect of some metal oxide nanocomposites on the pulsating heat pipe performance. Energy Reports, 2021, 7, 8825-8833.	2.5	5
69	ZnFe2O4@dimethylglyoxime: Preparation and Catalyst Application in the Synthesis of 2-Amino-tetrahydro-4H-chromene-3-carbonitrile Derivatives. Cells, 2021, 3, 89.	1.8	2
70	Adsorbent materials based on a geopolymer paste for dye removal from aqueous solutions. Arabian Journal of Chemistry, 2020, 13, 3017-3025.	2.3	100
71	Innovation policy, scientific research and economic performance: The case of Iran. Development Policy Review, 2020, 38, 387-407.	1.0	10
72	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.	1.7	62

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73	Palladium-decorated o-phenylenediamine-functionalized Fe3O4/SiO2 magnetic nanoparticles: A promising solid-state catalytic system used for Suzukiâ€“Miyaura coupling reactions. Journal of Physics and Chemistry of Solids, 2020, 136, 109200.	1.9	112
74	Recent advances in the application of mesoporous silica-based nanomaterials for bone tissue engineering. Materials Science and Engineering C, 2020, 107, 110267.	3.8	130
75	Enhanced reduction of nitrobenzene derivatives: Effective strategy executed by Fe3O4/PVA-10%Ag as a versatile hybrid nanocatalyst. Catalysis Communications, 2020, 134, 105850.	1.6	88
76	Halloysite Nanotubes Modified by Fe3O4 Nanoparticles and Applied as a Natural and Efficient Nanocatalyst for the SymmetricalHantzsch Reaction. Silicon, 2020, 12, 1247-1256.	1.8	23
77	High-performance sono/nano-catalytic system: Fe3O4@Pd/CaCO3-DTT core/shell nanostructures, a suitable alternative for traditional reducing agents for antibodies. Ultrasonics Sonochemistry, 2020, 61, 104824.	3.8	52
78	TTA, a new approach to estimate Hurst exponent with less estimation error and computational time. Physica A: Statistical Mechanics and Its Applications, 2020, 553, 124093.	1.2	14
79	Numerical study on the effect of viscosity on a multistage pump running in reverse mode. Renewable Energy, 2020, 150, 234-254.	4.3	30
80	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.	3.8	99
81	Rapid and direct molecular detection of Streptococcus pneumoniae and Haemophilus influenzae isolated in oropharynx and nasal cavity of children. New Microbes and New Infections, 2020, 33, 100632.	0.8	1
82	Highly facilitated synthesis of phenyl(tetramethyl)acridinedione pharmaceuticals by a magnetized nanoscale catalytic system, constructed of GO, Fe3O4 and creatine. Diamond and Related Materials, 2020, 102, 107661.	1.8	35
83	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.	2.3	59
84	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.	3.6	63
85	A brief survey on the advanced brain drug administration by nanoscale carriers: With a particular focus on AChE reactivators. Life Sciences, 2020, 240, 117099.	2.0	57
86	The Effects of Upper Limb Motor Recovery on Submovement Characteristics among the Patients with Stroke: A Metaâ€Analysis. PM and R, 2020, 12, 589-601.	0.9	1
87	Muscle coordination analysis by time-varying muscle synergy extraction during cycling across various mechanical conditions. Biocybernetics and Biomedical Engineering, 2020, 40, 90-99.	3.3	9
88	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.	3.6	83
89	A natural and eco-friendly magnetic nanobiocomposite based on activated chitosan for heavy metals adsorption and the in-vitro hyperthermia of cancer therapy. Journal of Materials Research and Technology, 2020, 9, 12244-12259.	2.6	53
90	Design and antibacterial activity assessment of â€œgreenâ€•synthesized 1,4-disubstituted 1,2,3-triazoles via an Fe3O4/silicalite-1/PVA/Cu(i) nanocomposite catalyzed three component reaction. New Journal of Chemistry, 2020, 44, 12619-12632.	1.4	6

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91	Green and efficient three-component synthesis of 4H-pyran catalysed by CuFe ₂ O ₄ @starch as a magnetically recyclable bionanocatalyst. Royal Society Open Science, 2020, 7, 200385.	1.1	33
92	Development of novel and green NiFe2O4/geopolymer nanocatalyst based on bentonite for synthesis of imidazole heterocycles by ultrasonic irradiations. Scientific Reports, 2020, 10, 11671.	1.6	41
93	Equilibrium and kinetics of praseodymium and neodymium extraction from NdFeB magnet-leaching solutions with [R4N+][NO3â^'] using single drop column. Journal of Molecular Liquids, 2020, 318, 114376.	2.3	13
94	Fabrication of Fe3O4@PVA-Cu Nanocomposite and Its Application for Facile and Selective Oxidation of Alcohols. Frontiers in Chemistry, 2020, 8, 615.	1.8	9
95	Cu(<scp>ii</scp>) immobilized on Fe₃O₄@HNTsâ€“tetrazole (CFHT) nanocomposite: synthesis, characterization, investigation of its catalytic role for the 1,3 dipolar cycloaddition reaction, and antibacterial activity. RSC Advances, 2020, 10, 26467-26478.	1.7	29
96	Synthesis of nickel nanoparticles by a green and convenient method as a magnetic mirror with antibacterial activities. Scientific Reports, 2020, 10, 12627.	1.6	75
97	Synthesis and characterization of a novel and green rodâ€like magnetic ZnS/CuFe₂O₄/agar organometallic hybrid catalyst for the synthesis of biologicallyâ€active 2â€aminoâ€tetrahydroâ€4Hâ€chromeneâ€3â€carbonitrile derivatives. Applied Organometallic Chemistry, 2020, 34, e5949.	1.7	47
98	Antimicrobial therapeutic enhancement of levofloxacin via conjugation to a cellâ€penetrating peptide: An efficient sonochemical catalytic process. Journal of Peptide Science, 2020, 26, e3277.	0.8	37
99	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.	5.1	82
100	A numerical study on mechanisms of energy dissipation in a pump as turbine (PAT) using entropy generation theory. Renewable Energy, 2020, 162, 1036-1053.	4.3	81
101	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.	1.4	45
102	The compensation of biomechanical errors in electrogoniometric measurements of the upper extremity kinematics. Sensors and Actuators A: Physical, 2020, 315, 112170.	2.0	5
103	A historical overview of the activation and porosity of metalâ€“organic frameworks. Chemical Society Reviews, 2020, 49, 7406-7427.	18.7	367
104	Preparation of a trihydrazinotriazine-functionalized core-shell nanocatalyst as an extremely efficient catalyst for the synthesis of benzoxanthenes. Materials Today Chemistry, 2020, 18, 100362.	1.7	12
105	Metalâ€based nanoparticles for bone tissue engineering. Journal of Tissue Engineering and Regenerative Medicine, 2020, 14, 1687-1714.	1.3	116
106	Multiâ€stimuli Nanocomposite Therapeutic: Docetaxel Targeted Delivery and Synergies in Treatment of Human Breast Cancer Tumor. Small, 2020, 16, e2002733.	5.2	92
107	Fabrication of a sensitive electrochemical sensor based on modified screen printed electrode for hydrazine analysis in water samples. International Journal of Environmental Analytical Chemistry, 2020, , 1-18.	1.8	5
108	Convenient conversion of hazardous nitrobenzene derivatives to aniline analogues by Ag nanoparticles, stabilized on a naturally magnetic pumice/chitosan substrate. RSC Advances, 2020, 10, 43670-43681.	1.7	36

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109	Facile route to synthesize Fe₃O₄@acaciaâ€“SO₃H nanocomposite as a heterogeneous magnetic system for catalytic applications. RSC Advances, 2020, 10, 40055-40067.	1.7	53
110	Atomistic-level study of the mechanical behavior of amorphous and crystalline silica nanoparticles. Ceramics International, 2020, 46, 21647-21656.	2.3	11
111	Design and development of natural and biocompatible raffinose-Cu2O magnetic nanoparticles as a heterogeneous nanocatalyst for the selective oxidation of alcohols. Molecular Catalysis, 2020, 492, 111037.	1.0	18
112	Synthesis of Eu(III) fabricated spinel ferrite based surface modified hybrid nanocomposite: Study of catalytic activity towards the facile synthesis of tetrahydrobenzo[b]pyrans. Journal of Molecular Structure, 2020, 1219, 128598.	1.8	13
113	Highâ€performance HTLâ€free perovskite solar cell: An efficient composition of ZnO NRs, RGO, and CuInS₂ QDs, as electronâ€transporting layer matrix. Progress in Photovoltaics: Research and Applications, 2020, 28, 956-970.	4.4	45
114	Synthesis and characterization of a supported Pd complex on volcanic pumice laminates textured by cellulose for facilitating Suzukiâ€“Miyaura cross-coupling reactions. RSC Advances, 2020, 10, 23359-23371.	1.7	46
115	Synthesis and Characterization of Ultrapure HKUSTâ€1 MOFs as Reusable Heterogeneous Catalysts for the Green Synthesis of Tetrazole Derivatives. ChemistrySelect, 2020, 5, 3164-3172.	0.7	17
116	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.	1.9	46
117	Effect of drought stress on agro-morphological traits in sunflower (Helianthus annuusL.) genotypes and identification of informative ISSR markers. Plant Genetic Resources: Characterisation and Utilisation, 2020, 18, 49-62.	0.4	5
118	Design and development of new preparation methods and catalytic activities of a magnetic ZrFe2O4 nanostructure. Journal of the Iranian Chemical Society, 2020, 17, 1659-1670.	1.2	7
119	Convenient and fast synthesis of various chromene pharmaceuticals assisted by highly porous volcanic micro-powder with nanoscale diameter porosity. Research on Chemical Intermediates, 2020, 46, 4113-4128.	1.3	23
120	Development of biosensors for detection of alpha-fetoprotein: As a major biomarker for hepatocellular carcinoma. TrAC - Trends in Analytical Chemistry, 2020, 130, 115961.	5.8	50
121	Elbow angle generation during activities of daily living using a submovement prediction model. Biological Cybernetics, 2020, 114, 389-402.	0.6	1
122	Convenient Cr(VI) Removal from Aqueous Samples: Executed by a Promising Clayâ€Based Catalytic System, Magnetized by Fe₃O₄ Nanoparticles and Functionalized with Humic Acid. ChemistrySelect, 2020, 5, 2441-2448.	0.7	65
123	Character encoding based on occurrence probability enhances the performance of SSVEP-based BCI spellers. Biomedical Signal Processing and Control, 2020, 58, 101888.	3.5	6
124	Ultrasound-assisted synthesis of 1,4-dihydropyridine derivatives by an efficient volcanic-based hybrid nanocomposite. Solid State Sciences, 2020, 101, 106141.	1.5	44
125	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.	0.8	40
126	Synthesis of Coreâ€Shell Magnetic Supramolecular Nanocatalysts based on Aminoâ€Functionalized Calix[4]arenes for the Synthesis of 4Hâ€Chromenes by Ultrasonic Waves. ChemistryOpen, 2020, 9, 735-742.	0.9	19

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127	The effect of magnetic field on the magnetic and hyperthermia properties of bentonite/Fe3O4 nanocomposite. Physica B: Condensed Matter, 2020, 588, 412167.	1.3	13
128	Design and performance of polypyrrole/halloysite nanotubes/Fe3O4/Ag/Co nanocomposite for photocatalytic degradation of methylene blue under visible light irradiation. Optik, 2020, 212, 164721.	1.4	38
129	Fuzzy ensemble system for SSVEP stimulation frequency detection using the MLR and MsetCCA. Journal of Neuroscience Methods, 2020, 338, 108686.	1.3	10
130	Preparation and characterization of perlite/V2O5 nano-spheres via a novel green method: Applied for oxidation of benzyl alcohol derivatives. Materials Chemistry and Physics, 2020, 250, 122991.	2.0	32
131	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.	2.7	72
132	A novel biodegradable magnetic bionanocomposite based on tannic acid as a biological molecule for selective oxidation of alcohols. Solid State Sciences, 2020, 105, 106284.	1.5	12
133	Enhanced activity of vancomycin by encapsulation in hybrid magnetic nanoparticles conjugated to a cell-penetrating peptide. Nanoscale, 2020, 12, 3855-3870.	2.8	99
134	Synthesis and evaluation of microwave absorption properties of Fe ₃ O ₄ /Halloysite/polypyrrole nanocomposites. Micro and Nano Letters, 2020, 15, 723-727.	0.6	11
135	Design and Fabrication of a Magnetite-based Polymer-supported Hybrid Nanocomposite: A Promising Heterogeneous Catalytic System Utilized in Known Palladium-assisted Coupling Reactions. Combinatorial Chemistry and High Throughput Screening, 2020, 23, 119-125.	0.6	37
136	Cellulose-Supported Sulfonated Magnetic Nanoparticles: Utilized for One-pot Synthesis of Î±-Iminonitrile Derivatives. Current Organic Synthesis, 2020, 17, 288-294.	0.7	13
137	Magnetized Dextrin: Eco-Friendly Effective Nanocatalyst for the Synthesis of Dihydropyrano[2,3-c]pyrazole Derivatives. Chemistry Proceedings, 2020, 3, .	0.1	5
138	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.	3.8	91
139	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.	3.6	121
140	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.	1.0	100
141	A novel method to improve interfacial bonding of compound squeeze cast Al/Alâ˜Cu macrocomposite bimetals: Simulation and experimental studies. Transactions of Nonferrous Metals Society of China, 2019, 29, 1184-1199.	1.7	11
142	Agar: a natural and environmentally-friendly support composed of copper oxide nanoparticles for the green synthesis of 1,2,3â€“triazoles. Green Chemistry Letters and Reviews, 2019, 12, 395-406.	2.1	53
143	Optimization of oxidative polymerization-desulfurization of a model fuel using polyoxometalate: Effect of ultrasound irradiation. Journal of Industrial and Engineering Chemistry, 2019, 80, 576-589.	2.9	20
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