

Mohammad H Entezari

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101
papers

6,738
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39
h-index

81
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103
ext. papers

7,395
ext. citations

8.5
avg, IF

6.34
L-index

#	Paper	IF	Citations
101	A review on the visible light active titanium dioxide photocatalysts for environmental applications. <i>Applied Catalysis B: Environmental</i> , 2012 , 125, 331-349	21.8	2848
100	Effect of frequency on sonochemical reactions II. Temperature and intensity effects. <i>Ultrasonics Sonochemistry</i> , 1996 , 3, 19-24	8.9	205
99	Chromium(VI) removal by maghemite nanoparticles. <i>Chemical Engineering Journal</i> , 2013 , 222, 527-533	14.7	178
98	Photolysis and photocatalysis of methylene blue by ferrite bismuth nanoparticles under sunlight irradiation. <i>Journal of Molecular Catalysis A</i> , 2013 , 377, 197-203		165
97	Sono-synthesis of bismuth ferrite nanoparticles with high photocatalytic activity in degradation of Rhodamine B under solar light irradiation. <i>Chemical Engineering Journal</i> , 2013 , 223, 145-154	14.7	127
96	Effect of frequency on sonochemical reactions. I: Oxidation of iodide. <i>Ultrasonics Sonochemistry</i> , 1994 , 1, S75-S79	8.9	117
95	Preparation, characterization, and rheological properties of graphene-glycerol nanofluids. <i>Chemical Engineering Journal</i> , 2013 , 231, 365-372	14.7	107
94	Sonochemical degradation of phenol in water: a comparison of classical equipment with a new cylindrical reactor. <i>Ultrasonics Sonochemistry</i> , 2003 , 10, 103-8	8.9	105
93	Solar photocatalytic degradation of RB5 by ferrite bismuth nanoparticles synthesized via ultrasound. <i>Ultrasonics Sonochemistry</i> , 2013 , 20, 1245-53	8.9	101
92	Activated carbon from carrot dross combined with magnetite nanoparticles for the efficient removal of p-nitrophenol from aqueous solution. <i>Chemical Engineering Journal</i> , 2012 , 210, 510-519	14.7	95
91	Amino-functionalized silica magnetite nanoparticles for the simultaneous removal of pollutants from aqueous solution. <i>Applied Surface Science</i> , 2015 , 333, 68-77	6.7	76
90	A combination of ultrasound and inorganic catalyst: removal of 2-chlorophenol from aqueous solution. <i>Ultrasonics Sonochemistry</i> , 2005 , 12, 137-41	8.9	76
89	Facile and fast synthesis of graphene oxide nanosheets via bath ultrasonic irradiation. <i>Journal of Colloid and Interface Science</i> , 2014 , 432, 19-25	9.3	75
88	The direct effect of ultrasound on the extraction of date syrup and its micro-organisms. <i>Ultrasonics Sonochemistry</i> , 2004 , 11, 379-84	8.9	69
87	Fast and easy synthesis of core-shell nanocrystal (CdS/TiO ₂) at low temperature by micro-emulsion under ultrasound. <i>Ultrasonics Sonochemistry</i> , 2011 , 18, 629-34	8.9	68
86	Modification of mesoporous silica magnetite nanoparticles by 3-aminopropyltriethoxysilane for the removal of Cr(VI) from aqueous solution. <i>Microporous and Mesoporous Materials</i> , 2015 , 218, 101-111	5.3	66
85	The effect of frequency on sonochemical reactions III: dissociation of carbon disulfide. <i>Ultrasonics Sonochemistry</i> , 1997 , 4, 49-54	8.9	66

84	Solar-Fenton catalytic degradation of phenolic compounds by impure bismuth ferrite nanoparticles synthesized via ultrasound. <i>Chemical Engineering Journal</i> , 2014 , 251, 207-216	14.7	64
83	Sonication of aqueous solutions of chlorobenzene. <i>Ultrasonics Sonochemistry</i> , 1997 , 4, 229-33	8.9	64
82	Toward a durable superhydrophobic aluminum surface by etching and ZnO nanoparticle deposition. <i>Journal of Colloid and Interface Science</i> , 2016 , 463, 37-45	9.3	63
81	Comparative phytotoxicity of ZnO nanoparticles, ZnO microparticles, and Zn ²⁺ on rapeseed (<i>Brassica napus</i> L.): investigating a wide range of concentrations. <i>Toxicological and Environmental Chemistry</i> , 2014 , 96, 861-868	1.4	63
80	Ultrasound with low intensity assisted the synthesis of nanocrystalline TiO ₂ without calcination. <i>Ultrasonics Sonochemistry</i> , 2010 , 17, 878-83	8.9	61
79	Exceptional catalytic efficiency in mineralization of the reactive textile azo dye (RB5) by a combination of ultrasound and core-shell nanoparticles (CdS/TiO ₂). <i>Journal of Hazardous Materials</i> , 2011 , 195, 132-8	12.8	60
78	A novel method for the synthesis of CdS nanoparticles without surfactant. <i>Ultrasonics Sonochemistry</i> , 2011 , 18, 269-75	8.9	59
77	Photocatalytic oxidative desulfurization of dibenzothiophene by C/TiO ₂ @MCM-41 nanoparticles under visible light and mild conditions. <i>RSC Advances</i> , 2015 , 5, 34652-34662	3.7	55
76	A combination of ultrasound and oxidative enzyme: sono-biodegradation of phenol. <i>Applied Catalysis B: Environmental</i> , 2004 , 53, 257-263	21.8	53
75	Anodic electrophoretic deposition of Bi ₂ WO ₆ thin film: high photocatalytic activity for degradation of a binary mixture. <i>Applied Catalysis B: Environmental</i> , 2019 , 242, 507-517	21.8	53
74	A combination of ultrasound and oxidative enzyme: sono-enzyme degradation of phenols in a mixture. <i>Ultrasonics Sonochemistry</i> , 2005 , 12, 283-8	8.9	48
73	Kinetic investigation on sono-degradation of Reactive Black 5 with core-shell nanocrystal. <i>Ultrasonics Sonochemistry</i> , 2013 , 20, 386-94	8.9	47
72	Sono-synthesis of core-shell nanocrystal (CdS/TiO ₂) without surfactant. <i>Ultrasonics Sonochemistry</i> , 2012 , 19, 1070-8	8.9	46
71	Sono-synthesis of biodiesel from soybean oil by KF/Al ₂ O ₃ as a nano-solid-base catalyst. <i>Ultrasonics Sonochemistry</i> , 2015 , 23, 266-74	8.9	45
70	Phase-transfer catalysis and ultrasonic waves. I. Cannizzaro reaction. <i>Ultrasonics Sonochemistry</i> , 2000 , 7, 169-72	8.9	44
69	Micro-emulsion under ultrasound facilitates the fast synthesis of quantum dots of CdS at low temperature. <i>Ultrasonics Sonochemistry</i> , 2011 , 18, 127-34	8.9	42
68	Phase-transfer catalysis and ultrasonic waves II: saponification of vegetable oil. <i>Ultrasonics Sonochemistry</i> , 2001 , 8, 213-6	8.9	42
67	A combination of ultrasound and a bio-catalyst: removal of 2-chlorophenol from aqueous solution. <i>Ultrasonics Sonochemistry</i> , 2006 , 13, 37-41	8.9	41

66	Direct and indirect sonication affect differently the microstructure and the morphology of ZnO nanoparticles: Optical behavior and its antibacterial activity. <i>Ultrasonics Sonochemistry</i> , 2015 , 27, 466-473	8.9	40
65	Synthesis of manganese oxide nanocrystal by ultrasonic bath: effect of external magnetic field. <i>Ultrasonics Sonochemistry</i> , 2012 , 19, 830-40	8.9	40
64	A combination of ultrasound and oxidative enzyme: sono-biodegradation of substituted phenols. <i>Ultrasonics Sonochemistry</i> , 2003 , 10, 241-6	8.9	40
63	Sono-sorption as a new method for the removal of methylene blue from aqueous solution. <i>Ultrasonics Sonochemistry</i> , 2007 , 14, 599-604	8.9	39
62	Sono-synthesis of solar light responsive S-N-C-tri doped TiO photo-catalyst under optimized conditions for degradation and mineralization of Diclofenac. <i>Ultrasonics Sonochemistry</i> , 2017 , 38, 234-245	8.9	38
61	Sonochemical versus hydrothermal synthesis of bismuth tungstate nanostructures: Photocatalytic, sonocatalytic and sonophotocatalytic activities. <i>Ultrasonics Sonochemistry</i> , 2019 , 51, 1-11	8.9	37
60	A novel approach for the synthesis of superparamagnetic Mn ₃ O ₄ nanocrystals by ultrasonic bath. <i>Ultrasonics Sonochemistry</i> , 2012 , 19, 560-9	8.9	36
59	Sono-synthesis of Mn ₃ O ₄ nanoparticles in different media without additives. <i>Chemical Engineering Journal</i> , 2010 , 164, 261-266	14.7	36
58	Long-term exposure of rapeseed (<i>Brassica napus</i> L.) to ZnO nanoparticles: anatomical and ultrastructural responses. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 10733-43	5.1	35
57	Simple and versatile one-step synthesis of FeS ₂ nanoparticles by ultrasonic irradiation. <i>Journal of Colloid and Interface Science</i> , 2016 , 470, 204-210	9.3	34
56	Achieving to a superhydrophobic glass with high transparency by a simple sol-gel-dip-coating method. <i>Surface and Coatings Technology</i> , 2015 , 276, 557-564	4.4	33
55	Comparative Effects of ZnO Nanoparticles, ZnO Bulk Particles, and Zn ²⁺ on <i>Brassica napus</i> After Long-Term Exposure: Changes in Growth, Biochemical Compounds, Antioxidant Enzyme Activities, and Zn Bioaccumulation. <i>Water, Air, and Soil Pollution</i> , 2015 , 226, 1	2.6	33
54	Sono-catalytic degradation and fast mineralization of p-chlorophenol: La(0.7)Sr(0.3)MnO ₃ as a nano-magnetic green catalyst. <i>Ultrasonics Sonochemistry</i> , 2013 , 20, 1419-27	8.9	33
53	Water softening by combination of ultrasound and ion exchange. <i>Ultrasonics Sonochemistry</i> , 2009 , 16, 356-60	8.9	33
52	Sorption studies of nitrate ion by a modified beet residue in the presence and absence of ultrasound. <i>Ultrasonics Sonochemistry</i> , 2010 , 17, 711-7	8.9	33
51	Sono-synthesis approach in uniform loading of ultrafine Ag nanoparticles on reduced graphene oxide nanosheets: An efficient catalyst for the reduction of 4-Nitrophenol. <i>Ultrasonics Sonochemistry</i> , 2018 , 44, 1-13	8.9	32
50	Combination of ultrasound and discarded tire rubber: removal of Cr(III) from aqueous solution. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 4638-42	2.8	29
49	Sonosynthesis of an Ag/AgBr/Graphene-oxide nanocomposite as a solar photocatalyst for efficient degradation of methyl orange. <i>Journal of Colloid and Interface Science</i> , 2016 , 466, 227-37	9.3	28

48	Modification of C/TiO ₂ @MCM-41 with nickel nanoparticles for photocatalytic desulfurization enhancement of a diesel fuel model under visible light. <i>Journal of Colloid and Interface Science</i> , 2015 , 457, 353-9	9.3	26
47	Role of polymeric surfactants on the growth of manganese ferrite nanoparticles. <i>Chemical Engineering Journal</i> , 2012 , 210, 157-165	14.7	26
46	Ultrasound facilitates and improves removal of Cd(II) from aqueous solution by the discarded tire rubber. <i>Journal of Hazardous Materials</i> , 2006 , 131, 84-9	12.8	26
45	Fast and efficient removal of Reactive Black 5 from aqueous solution by a combined method of ultrasound and sorption process. <i>Ultrasonics Sonochemistry</i> , 2008 , 15, 433-437	8.9	24
44	Complete mineralization of surfactant from aqueous solution by a novel sono-synthesized nanocomposite (TiO ₂ /Cu ₂ O) under sunlight irradiation. <i>Chemical Engineering Journal</i> , 2013 , 229, 304-312	14.7	22
43	High stable suspension of magnetite nanoparticles in ethanol by using sono-synthesized nanomagnetite in polyol medium. <i>Materials Research Bulletin</i> , 2013 , 48, 3149-3156	5.1	22
42	Simultaneous removal of copper and lead ions from a binary solution by sono-sorption process. <i>Journal of Hazardous Materials</i> , 2008 , 160, 88-93	12.8	22
41	Wettability properties vary with different morphologies of ZnO nanoparticles deposited on glass and modified by stearic acid. <i>New Journal of Chemistry</i> , 2016 , 40, 2582-2591	3.6	21
40	Sono-sorption as a new method for the removal of lead ion from aqueous solution. <i>Journal of Hazardous Materials</i> , 2006 , 137, 959-64	12.8	21
39	Enhancement of the corrosion protection of electroless NiB coating by deposition of sonosynthesized ZnO nanoparticles. <i>Applied Surface Science</i> , 2015 , 351, 1060-1068	6.7	19
38	Degradation of Diclofenac by sonosynthesis of pyrite nanoparticles. <i>Journal of Environmental Management</i> , 2017 , 187, 416-423	7.9	19
37	Influence of ultrasound on cadmium ion removal by sorption process. <i>Ultrasonics Sonochemistry</i> , 2008 , 15, 428-432	8.9	19
36	Sono-synthesis of imidazolidine-2-thione as a base compound of some pharmaceutical products. <i>Ultrasonics Sonochemistry</i> , 2008 , 15, 119-23	8.9	18
35	Rheological properties of the nanofluids of tungsten oxide nanoparticles in ethylene glycol and glycerol. <i>Microfluidics and Nanofluidics</i> , 2015 , 19, 1191-1202	2.8	17
34	Mesoporous superparamagnetic hydroxyapatite nanocomposite: A multifunctional platform for synergistic targeted chemo-magnetotherapy. <i>Materials Science and Engineering C</i> , 2019 , 101, 27-41	8.3	15
33	BFO thin film on the stainless steel mesh by anodic EPD: A visible light photocatalyst for degradation of Rhodamin B. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018 , 365, 185-198	4.7	15
32	Ultrasound facilitates the synthesis of potassium hexatitanate and co-intercalation with PbS-CdS nanoparticles. <i>Ultrasonics Sonochemistry</i> , 2016 , 32, 348-356	8.9	15
31	Sono-intercalation of CdS nanoparticles into the layers of titanate facilitates the sunlight degradation of Congo red. <i>Journal of Colloid and Interface Science</i> , 2016 , 462, 130-9	9.3	14

30	Evaluation of antibacterial activity of anticorrosive electroless NiP coating against Escherichia coli and its enhancement by deposition of sono-synthesized ZnO nanoparticles. <i>Surface and Coatings Technology</i> , 2015 , 266, 160-166	4.4	14
29	On-line preconcentration of ultra-trace thallium(I) in water samples with titanium dioxide nanoparticles and determination by graphite furnace atomic absorption spectrometry. <i>Arabian Journal of Chemistry</i> , 2016 , 9, S1833-S1839	5.9	14
28	Sono-electrodeposition of novel bismuth sulfide films on the stainless steel mesh: Photocatalytic reduction of Cr (VI). <i>Journal of Hazardous Materials</i> , 2020 , 384, 121300	12.8	14
27	Surface modification of mild steel before acrylic resin coating by hybrid ZnO/GO nanostructures to improve the corrosion protection. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 83, 333-342	6.3	13
26	The variation of surface free energy of Al during superhydrophobicity processing. <i>Chemical Engineering Journal</i> , 2017 , 322, 181-187	14.7	12
25	A novel synthesis of forest like BiFeO ₃ thin film: Photo-electrochemical studies and its application as a photocatalyst for phenol degradation. <i>Applied Surface Science</i> , 2019 , 483, 793-802	6.7	12
24	Cubic Ag/AgBr/graphene oxide nanocomposite: sono-synthesis and use as a solar photocatalyst for the degradation of DCF as a pharmaceutical pollutant. <i>RSC Advances</i> , 2015 , 5, 97027-97035	3.7	12
23	Ultratrace determination of cadmium(II) ions in water samples using graphite furnace atomic absorption spectrometry after separation and preconcentration using magnetic activated carbon nanocomposites. <i>Analytical Methods</i> , 2014 , 6, 9490-9496	3.2	12
22	High visible light intercalated nanophotocatalyst (PbS-CdS/TiO ₂) synthesized by ultrasound: Photocatalytic activity, photocorrosion resistance and degradation mechanism. <i>Separation and Purification Technology</i> , 2017 , 174, 482-492	8.3	12
21	Fabrication of superhydrophobic iron with anti-corrosion property by ultrasound. <i>Surface and Coatings Technology</i> , 2017 , 309, 795-804	4.4	11
20	Sono-incorporation of CuO nanoparticles on the surface and into the mesoporous hexatitanate layers: Enhanced Fenton-like activity in degradation of orange-G at its neutral pH. <i>Applied Surface Science</i> , 2017 , 399, 732-741	6.7	11
19	Sonication affects the quantity and the morphology of ZnO nanostructures synthesized on the mild steel and changes the corrosion protection of the surface. <i>Ultrasonics Sonochemistry</i> , 2018 , 41, 492-502	8.9	11
18	The new aspects of the anticorrosive ZnO@SiO ₂ core-shell NPs in stabilizing of the electrolytic Ni bath and the Ni coating structure; electrochemical behavior of the resulting nano-composite coatings. <i>Journal of Colloid and Interface Science</i> , 2015 , 455, 110-6	9.3	11
17	Synergistic effect of low and high intensity ultrasonic irradiation on the direct growth of ZnO nanostructures on the galvanized steel surface: investigation of the corrosion behavior. <i>Ultrasonics Sonochemistry</i> , 2018 , 44, 380-389	8.9	10
16	Anatomical and ultrastructural responses of Brassica napus after long-term exposure to excess zinc. <i>Turkish Journal of Biology</i> , 2016 , 40, 652-660	3.1	10
15	Ultrasound assisted deposition of highly stable self-assembled BiMoO nanoplates with selective crystal facet engineering as photoanode. <i>Ultrasonics Sonochemistry</i> , 2020 , 67, 105145	8.9	9
14	Mechanistic investigation of the influence of phosphoric and boric acids in the formation of homogeneous Ni-P/ZnO@SiO ₂ coatings. <i>Journal of Colloid and Interface Science</i> , 2016 , 464, 291-300	9.3	9
13	Effects of Bread with Nigella Sativa on Lipid Profiles, Apolipoproteins and Inflammatory Factor in Metabolic Syndrome Patients. <i>Clinical Nutrition Research</i> , 2016 , 5, 89-95	1.7	9

12	Cadmium and lead ions can be removed simultaneously from a binary aqueous solution by the sono-sorption method. <i>Ultrasonics Sonochemistry</i> , 2009 , 16, 495-501	8.9	8
11	BiMoO nanofilms on the stainless steel mesh by PS-PED method: Photocatalytic degradation of diclofenac sodium as a pharmaceutical pollutant. <i>Ultrasonics Sonochemistry</i> , 2020 , 62, 104867	8.9	8
10	Direct growth of ZnO nanostructures on the Zn electroplated mild steel to create the surface roughness and improve the corrosion protection of the electroless Ni-P coating. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2018 , 231, 18-27	3.1	7
9	Access to nanocrystalline, uniform, and fine-grained Ni-P coating with improved anticorrosive action through the growth of ZnO nanostructures before the plating process. <i>Corrosion Science</i> , 2020 , 172, 108743	6.8	4
8	Graphene oxide nanosheets synthesized by ultrasound: Experiment versus MD simulation. <i>Applied Surface Science</i> , 2018 , 451, 112-120	6.7	4
7	Salting out in ACN/water systems: Hofmeister effects and partition of quercetin. <i>Journal of Molecular Liquids</i> , 2020 , 312, 113331	6	4
6	Configurational study of amino-functionalized silica surfaces: A density functional theory modeling. <i>Journal of Molecular Graphics and Modelling</i> , 2015 , 59, 21-30	2.8	3
5	Photoelectrochemical water splitting by a novel design of photo-anode: inverse opal-like UiO-66 sensitized by Pd and decorated with S,N graphene QDs. <i>Electrochimica Acta</i> , 2021 , 391, 138926	6.7	3
4	Influences of spinel type and polymeric surfactants on the size evolution of colloidal magnetic nanocrystals (MFe ₂ O ₄ , M= Fe, Mn). <i>Frontiers of Chemical Science and Engineering</i> , 2014 , 8, 378-385	4.5	2
3	Ultrasound improves the synthesis of 5-hydroxymethyl-2-mercapto-1-benzylimidazole as a base compound of some pharmaceutical products. <i>European Journal of Medicinal Chemistry</i> , 2008 , 43, 2835-9	6.8	2
2	Design of new, efficient, and suitable electrode material through interconnection of ZIF-67 by polyaniline nanotube on graphene flakes for supercapacitors. <i>Journal of Power Sources</i> , 2022 , 538, 231588	8.9	0
1	Sono-synthesis approach improves anticancer activity of ZnO nanoparticles: reactive oxygen species depletion for killing human osteosarcoma cells. <i>Nanomedicine</i> , 2021 , 16, 657-671	5.6	