

Hossein Esmaeili

List of Publications by Year in descending order

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88
papers

2,876
citations

136950

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#	ARTICLE	IF	CITATIONS
1	Enhanced biodiesel production from chicken fat using CaO/CuFe ₂ O ₄ nanocatalyst and its combination with diesel to improve fuel properties. <i>Fuel</i> , 2019, 235, 1238-1244.	6.4	151
2	Transesterification of waste edible oils to biodiesel using calcium oxide@magnesium oxide nanocatalyst. <i>Waste Management</i> , 2020, 105, 373-383.	7.4	113
3	The role of bentonite clay and bentonite clay@MnFe ₂ O ₄ composite and their physico-chemical properties on the removal of Cr(III) and Cr(VI) from aqueous media. <i>Environmental Science and Pollution Research</i> , 2020, 27, 14044-14057.	5.3	85
4	AC/CuFe ₂ O ₄ @CaO as a novel nanocatalyst to produce biodiesel from chicken fat. <i>Renewable Energy</i> , 2020, 147, 25-34.	8.9	84
5	Characteristics and performance of Cd, Ni, and Pb bio-adsorption using <i>Callinectes sapidus</i> biomass: real wastewater treatment. <i>Environmental Science and Pollution Research</i> , 2019, 26, 6336-6347.	5.3	82
6	A review on biodiesel production using various heterogeneous nanocatalysts: Operation mechanisms and performances. <i>Biomass and Bioenergy</i> , 2022, 158, 106356.	5.7	80
7	Application of magnetic adsorbents for removal of heavy metals from wastewater: a review study. <i>Materials Research Express</i> , 2019, 6, 102004.	1.6	78
8	Adsorption behavior of Cu(II) and Co(II) using chemically modified marine algae. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 2792-2800.	2.2	77
9	Montmorillonite clay/starch/CoFe ₂ O ₄ nanocomposite as a superior functional material for uptake of cationic dye molecules from water and wastewater. <i>Materials Chemistry and Physics</i> , 2022, 284, 126088.	4.0	77
10	Eggshell nano-particle potential for methyl violet and mercury ion removal: Surface study and field application. <i>Advanced Powder Technology</i> , 2019, 30, 2188-2199.	4.1	74
11	Comparison between the artificial neural network, SAFT and PRSV approach in obtaining the solubility of solid aromatic compounds in supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2013, 77, 44-51.	3.2	73
12	Nano-magnetically modified activated carbon prepared by oak shell for treatment of wastewater containing fluoride ion. <i>Advanced Powder Technology</i> , 2020, 31, 3236-3245.	4.1	72
13	Enhancement of the chromium removal behavior of <i>Moringa oleifera</i> activated carbon by chitosan and iron oxide nanoparticles from water. <i>Carbohydrate Polymers</i> , 2021, 251, 117085.	10.2	72
14	A critical review on the economic aspects and life cycle assessment of biodiesel production using heterogeneous nanocatalysts. <i>Fuel Processing Technology</i> , 2022, 230, 107224.	7.2	65
15	Chemically Modified CaO/Fe ₃ O ₄ Nanocomposite by Sodium Dodecyl Sulfate for Cr(III) Removal from Water. <i>Chemical Engineering and Technology</i> , 2019, 42, 607-616.	1.5	61
16	Adsorptive Behavior of Methylene Blue onto Sawdust of Sour Lemon, Date Palm, and Eucalyptus as Agricultural Wastes. <i>Journal of Dispersion Science and Technology</i> , 2019, 40, 990-999.	2.4	61
17	Ultrasonic assisted synthesis of Kaolin/CuFe ₂ O ₄ nanocomposite for removing cationic dyes from aqueous media. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103869.	6.7	50
18	Improving the surface properties of adsorbents by surfactants and their role in the removal of toxic metals from wastewater: A review study. <i>Chemical Engineering Research and Design</i> , 2021, 148, 775-795.	5.6	49

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19	Synthesis of MnFe ₂ O ₄ @graphene oxide catalyst for biodiesel production from waste edible oil. <i>Renewable Energy</i> , 2021, 170, 426-437.	8.9	49
20	Characterization of MgO nanocatalyst to produce biodiesel from goat fat using transesterification process. <i>3 Biotech</i> , 2019, 9, 429.	2.2	48
21	Zinc, nickel, and cobalt ions removal from aqueous solution and plating plant wastewater by modified <i>Aspergillus flavus</i> biomass: A dataset. <i>Data in Brief</i> , 2017, 12, 485-492.	1.0	46
22	Adsorptive performance of calcined <i>Cardita bicolor</i> for attenuating Hg(II) and As(III) from synthetic and real wastewaters. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 479-488.	2.7	46
23	Optimization of biodiesel production from <i>Moringa oleifera</i> seeds oil in the presence of nano-MgO using Taguchi method. <i>International Nano Letters</i> , 2019, 9, 257-263.	5.0	46
24	Erythrosine Adsorption from Aqueous Solution via Decorated Graphene Oxide with Magnetic Iron Oxide Nano Particles: Kinetic and Equilibrium Studies. <i>Acta Chimica Slovenica</i> , 2018, 65, 882-894.	0.6	46
25	Heavy metal ions (lead, cobalt, and nickel) biosorption from aqueous solution onto activated carbon prepared from <i>Citrus limetta</i> leaves. <i>Carbon Letters</i> , 2020, 30, 683-698.	5.9	45
26	Ultrasonic-assisted synthesis of natural clay/Fe ₃ O ₄ /graphene oxide for enhance removal of Cr (VI) from aqueous media. <i>Environmental Science and Pollution Research</i> , 2020, 27, 31652-31664.	5.3	45
27	Calcined <i>Umbonium vestiarium</i> snail shell as an efficient adsorbent for treatment of wastewater containing Co (II). <i>3 Biotech</i> , 2019, 9, 78.	2.2	40
28	Cr(VI) removal from aqueous solution using activated carbon prepared from <i>Ziziphus spina-christi</i> leaf. <i>Materials Research Express</i> , 2019, 6, 045607.	1.6	40
29	Data on cytotoxic and antibacterial activity of synthesized Fe ₃ O ₄ nanoparticles using <i>Malva sylvestris</i> . <i>Data in Brief</i> , 2020, 28, 104929.	1.0	39
30	Application of nanomaterials for demulsification of oily wastewater: A review study. <i>Environmental Technology and Innovation</i> , 2021, 22, 101498.	6.1	39
31	Chemically modified bentonite/Fe ₃ O ₄ nanocomposite for Pb(II), Cd(II), and Ni(II) removal from synthetic wastewater. , 0, 110, 154-167.		39
32	Adsorption of methyl violet from aqueous solution using brown algae <i>Padina sanctae-crucis</i> . <i>Turkish Journal of Biochemistry</i> , 2018, 43, 623-631.	0.5	37
33	Synthesis of wheat bran sawdust/Fe ₃ O ₄ composite for the removal of methylene blue and methyl violet. <i>Environmental Monitoring and Assessment</i> , 2021, 193, 276.	2.7	35
34	Performance of functionalized magnetic nanocatalysts and feedstocks on biodiesel production: A review study. <i>Journal of Cleaner Production</i> , 2021, 305, 127200.	9.3	35
35	MHD mixed convection flow and heat transfer in an open C-shaped enclosure using water-copper oxide nanofluid. <i>Heat and Mass Transfer</i> , 2018, 54, 1791-1801.	2.1	34
36	Adsorption of Lead and Arsenic Ions from Aqueous Solution by Activated Carbon Prepared from <i>Tamarix</i> Leaves. <i>ChemistrySelect</i> , 2019, 4, 12356-12367.	1.5	32

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37	Green synthesis of supermagnetic Fe ₃ O ₄ @MgO nanoparticles via Nutmeg essential oil toward superior anti-bacterial and anti-fungal performance. <i>Journal of Drug Delivery Science and Technology</i> , 2019, 54, 101352.	3.0	31
38	Enhancement removal of Cr (VI) ion using magnetically modified MgO nanoparticles. <i>Materials Research Express</i> , 2019, 6, 125513.	1.6	31
39	Modification of <i>Sargassum angustifolium</i> by molybdate during a facile cultivation for high-rate phosphate removal from wastewater: structural characterization and adsorptive behavior. <i>3 Biotech</i> , 2016, 6, 251.	2.2	30
40	Effect of interfering ions on phosphate removal from aqueous media using magnesium oxide@ferric molybdate nanocomposite. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 804-814.	2.7	28
41	Synthesis of Fe ₃ O ₄ Nanoparticles Modified by Oak Shell for Treatment of Wastewater Containing Ni(II). <i>Acta Chimica Slovenica</i> , 2018, 65, 750-756.	0.6	28
42	Calcined lotus leaf as a low-cost and highly efficient biosorbent for removal of methyl violet dye from aqueous media. <i>International Journal of Environmental Analytical Chemistry</i> , 2021, 101, 2761-2784.	3.3	27
43	Effect of Surfactant on Stability and Size Distribution of Gas Condensate Droplets in Water. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 1461-1467.	1.9	26
44	Preparation of activated carbon from worn tires for removal of Cu(II), Ni(II) and Co(II) ions from synthetic wastewater. , 0, 141, 269-278.		26
45	MgO@CNT@K ₂ CO ₃ as a superior catalyst for biodiesel production from waste edible oil using two-step transesterification process. <i>Chemical Engineering Research and Design</i> , 2022, 161, 136-146.	5.6	25
46	Synthesis of CaO/Fe ₂ O ₃ nanocomposite as an efficient nanoadsorbent for the treatment of wastewater containing Cr (III). <i>Separation Science and Technology</i> , 2021, 56, 1328-1341.	2.5	24
47	Synthesis of CaO/Fe ₃ O ₄ magnetic composite for the removal of Pb(II) and Co(II) from synthetic wastewater. <i>Journal of the Serbian Chemical Society</i> , 2018, 83, 237-249.	0.8	24
48	Removal of Cu(II), Co(II) and Pb(II) from synthetic and real wastewater using calcified <i>Solamen Vaillantii</i> snail shell. , 0, 174, 324-335.		23
49	Ultrasound-assisted biodiesel generation from waste edible oil using CoFe ₂ O ₄ @GO as a superior and reclaimable nanocatalyst: Optimization of two-step transesterification by RSM. <i>Fuel</i> , 2022, 327, 125170.	6.4	23
50	Effect of supply/regeneration section area ratio on the performance of desiccant wheels in hot and humid climates: an experimental investigation. <i>Heat and Mass Transfer</i> , 2016, 52, 1175-1181.	2.1	21
51	Optimization of Biodiesel Production from Goat Tallow Using Alkaline Catalysts and Combining them with Diesel. <i>Chemistry and Chemical Technology</i> , 2018, 12, 120-126.	1.1	20
52	Activated carbon@MgO@Fe ₃ O ₄ as an efficient adsorbent for As (III) removal. <i>Carbon Letters</i> , 2021, 31, 851-862.	5.9	19
53	Highly efficient removal of toxic ions by the activated carbon derived from <i>Citrus limon</i> tree leaves. <i>Carbon Letters</i> , 2021, 31, 509-521.	5.9	19
54	Magnetically modified MgO nanoparticles as an efficient adsorbent for phosphate ions removal from wastewater. <i>Separation Science and Technology</i> , 2020, 55, 1910-1921.	2.5	18

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55	Adsorptive removal of Pb(II), Ni(II), and Cd(II) from aqueous media and leather wastewater using <i>Padinasanctae-crucis</i> biomass. , 0, 135, 236-246.		18
56	Clay/starch/Fe ₃ O ₄ nanocomposite as an efficient adsorbent for the removal of methyl violet dye from aqueous media. <i>International Journal of Environmental Analytical Chemistry</i> , 2020, , 1-22.	3.3	17
57	A review study on new aspects of biodemulsifiers: Production, features and their application in wastewater treatment. <i>Chemosphere</i> , 2021, 284, 131364.	8.2	17
58	Enhancement of Biodiesel Production from Chicken Fat Using MgO and MgO@Na ₂ O Nanocatalysts. <i>Chemical Engineering and Technology</i> , 2021, 44, 77-84.	1.5	16
59	Dataset of the aqueous solution and petrochemical wastewater treatment containing ammonia using low cost and efficient bio-adsorbents. <i>Data in Brief</i> , 2019, 26, 104308.	1.0	15
60	Activated carbon/bentonite/Fe ₃ O ₄ nanocomposite for treatment of wastewater containing Reactive Red 198. <i>Separation Science and Technology</i> , 2021, 56, 2693-2707.	2.5	14
61	Biodiesel production from goat fat using calcium oxide nanocatalyst and its combination with diesel fuel to improve fuel properties. <i>International Journal of Sustainable Engineering</i> , 2021, 14, 1122-1131.	3.5	11
62	Separation of Ni (II) from Industrial Wastewater by Kombucha Scoby as a Colony Consisted from Bacteria and Yeast: Kinetic and Equilibrium Studies. <i>Acta Chimica Slovenica</i> , 0, , 865-873.	0.6	11
63	Date seed activated carbon decorated with CaO and Fe ₃ O ₄ nanoparticles as a reusable sorbent for removal of formaldehyde. <i>Korean Journal of Chemical Engineering</i> , 2022, 39, 146-160.	2.7	11
64	Sulfate Ion Removal From Water Using Activated Carbon Powder Prepared by <i>Ziziphus Spina-Christi</i> Lotus Leaf. <i>Acta Chimica Slovenica</i> , 0, , 888-898.	0.6	10
65	Ultrasonic-assisted synthesis of zeolite/activated carbon@MnO ₂ composite as a novel adsorbent for treatment of wastewater containing methylene blue and brilliant blue. <i>Environmental Monitoring and Assessment</i> , 2022, 194, 279.	2.7	10
66	Turbulent combined forced and natural convection of nanofluid in a 3D rectangular channel using two-phase model approach. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 3247-3257.	3.6	9
67	Adsorption of Cr (III) and Cd (II) Ions using Mesoporous Cobalt-Ferrite Nanocomposite from Synthetic Wastewater. <i>Acta Chimica Slovenica</i> , 0, , 208-216.	0.6	9
68	Toward artificial intelligence-based modeling of vapor liquid equilibria of carbon dioxide and refrigerant binary systems. <i>Journal of the Serbian Chemical Society</i> , 2018, 83, 199-211.	0.8	9
69	Destabilization and Separation of Gas Condensate from Wastewater using Different Surfactant Demulsifiers. <i>Tenside, Surfactants, Detergents</i> , 2018, 55, 153-161.	1.2	9
70	Synthesis of Zeolite Clay/Fe-Al Hydrotalcite Composite as a Reusable Adsorbent for Adsorption/Desorption of Cationic Dyes. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 6651-6665.	3.0	9
71	Application of biosurfactants in the removal of oil from emulsion. , 2021, , 107-127.		8
72	Cadmium(II) Removal from Aqueous Solution Using Microporous Eggshell: Kinetic and Equilibrium Studies. <i>Indonesian Journal of Chemistry</i> , 2018, 18, 265.	0.8	8

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73	Optimization of fermentation conditions for efficient ethanol production by <i>Mucor hiemalis</i> . Turkish Journal of Biochemistry, 2018, 43, 587-594.	0.5	6
74	Nanomaterials for subsurface application: study of particles retention in porous media. Applied Nanoscience (Switzerland), 2021, 11, 1847-1856.	3.1	6
75	Methylene Blue Dye Removal from Aqueous Media Using Activated Carbon Prepared by Lotus Leaves: Kinetic, Equilibrium and Thermodynamic Study. Acta Chimica Slovenica, 2021, 68, 363-373.	0.6	6
76	Heterogeneous aluminum oxide/calcium oxide catalyzed transesterification of <i>Mespilus germanica</i> triglyceride for biodiesel production. Environmental Progress and Sustainable Energy, 2022, 41, e13738.	2.3	6
77	<i>Ziziphus spina-christi</i> leaves biochar decorated with Fe ₃ O ₄ and SDS for sorption of chromium (III) from aqueous solution. Biomass Conversion and Biorefinery, 0, , .	4.6	6
78	Clay/MgFe ₂ O ₄ as a Novel Composite for Removal of Cr (VI) From Aqueous Media. ChemistrySelect, 2020, 5, 9377-9387.	1.5	5
79	Activated Carbon/Bentonite/Fe ₃ O ₄ as Novel Nanobiocomposite for High Removal of Cr(VI) Ions. Chemical Engineering and Technology, 2021, 44, 1908-1918.	1.5	5
80	Application of nanotechnology for biofuel production. , 2021, , 149-172.		4
81	Mathematical Modeling of Destabilizing Gas Condensate Droplets in Water Emulsions Using the Population Balance Method. Tenside, Surfactants, Detergents, 2019, 56, 119-125.	1.2	4
82	Elimination of methyl violet 2B dye from water using <i>Citrus limetta</i> leaves-activated carbon modified by copper-ferrite nanoparticles. Separation Science and Technology, 2022, 57, 509-522.	2.5	3
83	Advantages of nanoadsorbents, biosorbents, and nanobiosorbents for contaminant removal. , 2022, , 105-133.		3
84	Removal of gas condensate from industrial wastewater using low-cost adsorbents: Optimization by Box-Behnken design method. Environmental Progress and Sustainable Energy, 2021, 40, e13589.	2.3	2
85	Magnetically modified activated carbon prepared from pine cones for treatment of wastewater containing heavy metals. , 0, 208, 216-226.		2
86	Decoration of carbon nanotubes with MgO and CuFe ₂ O ₄ as a nanorod composite for the removal of Pb (II) ion from aqueous media. Journal of Dispersion Science and Technology, 2023, 44, 1305-1316.	2.4	1
87	Selective Removal of Sodium Ions from Aqueous Media Using Effective Adsorbents: Optimization by RSM and Genetic Algorithm. Acta Chimica Slovenica, 2021, 68, 791-803.	0.6	1
88	Modeling of Colloid Adsorption in Colloidal Suspension by Using of Adsorbent Particles. Journal of Dispersion Science and Technology, 2012, 33, 1552-1559.	2.4	0