

mohammad Irani

List of Publications by Year in descending order

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69
papers

4,798
citations

87723

38
h-index

95083

68
g-index

71
all docs

71
docs citations

71
times ranked

5107
citing authors

#	ARTICLE	IF	CITATIONS
1	Incorporation of UiO-66-NH ₂ MOF into the PAN/chitosan nanofibers for adsorption and membrane filtration of Pb(II), Cd(II) and Cr(VI) ions from aqueous solutions. <i>Journal of Hazardous Materials</i> , 2019, 368, 10-20.	6.5	381
2	Electrospun nanofiber membrane of PEO/Chitosan for the adsorption of nickel, cadmium, lead and copper ions from aqueous solution. <i>Chemical Engineering Journal</i> , 2013, 220, 237-243.	6.6	330
3	Chitosan nanofibers functionalized by TiO ₂ nanoparticles for the removal of heavy metal ions. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 58, 333-343.	2.7	210
4	Removal of Cr(VI) from aqueous solutions using chitosan/MWCNT/Fe ₃ O ₄ composite nanofibers-batch and column studies. <i>Chemical Engineering Journal</i> , 2016, 284, 557-564.	6.6	181
5	Removal of Cu ²⁺ , Pb ²⁺ and Cr ⁶⁺ from aqueous solutions using a chitosan/graphene oxide composite nanofibrous adsorbent. <i>RSC Advances</i> , 2015, 5, 16532-16539.	1.7	178
6	Design and evaluation of chitosan/hydroxyapatite composite nanofiber membrane for the removal of heavy metal ions from aqueous solution. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 518-526.	2.7	173
7	Aminated-Fe ₃ O ₄ nanoparticles filled chitosan/PVA/PES dual layers nanofibrous membrane for the removal of Cr(VI) and Pb(II) ions from aqueous solutions in adsorption and membrane processes. <i>Chemical Engineering Journal</i> , 2018, 337, 169-182.	6.6	168
8	Controlled release of doxorubicin from electrospun PEO/chitosan/graphene oxide nanocomposite nanofibrous scaffolds. <i>Materials Science and Engineering C</i> , 2015, 48, 384-390.	3.8	157
9	Magnetic CoFe ₂ O ₄ nanoparticles doped with metal ions: A review. <i>Ceramics International</i> , 2020, 46, 18391-18412.	2.3	155
10	Removal of Ni ²⁺ and Cd ²⁺ ions from aqueous solutions using electrospun PVA/zeolite nanofibrous adsorbent. <i>Chemical Engineering Journal</i> , 2014, 256, 119-127.	6.6	144
11	Comparative study of lead sorption onto natural perlite, dolomite and diatomite. <i>Chemical Engineering Journal</i> , 2011, 178, 317-323.	6.6	128
12	Synthesis of cellulose acetate/chitosan/SWCNT/Fe ₃ O ₄ /TiO ₂ composite nanofibers for the removal of Cr(VI), As(V), Methylene blue and Congo red from aqueous solutions. <i>International Journal of Biological Macromolecules</i> , 2019, 140, 1296-1304.	3.6	103
13	Doxorubicin hydrochloride - Loaded electrospun chitosan/cobalt ferrite/titanium oxide nanofibers for hyperthermic tumor cell treatment and controlled drug release. <i>International Journal of Biological Macromolecules</i> , 2018, 116, 378-384.	3.6	101
14	Fabrication of novel chitosan-g-PNVCL/ZIF-8 composite nanofibers for adsorption of Cr(VI), As(V) and phenol in a single and ternary systems. <i>Carbohydrate Polymers</i> , 2019, 224, 115148.	5.1	99
15	Fabrication of PET/PAN/GO/Fe ₃ O ₄ nanofibrous membrane for the removal of Pb(II) and Cr(VI) ions. <i>Chemical Engineering Journal</i> , 2016, 301, 42-50.	6.6	97
16	UiO-66 metal organic framework nanoparticles loaded carboxymethyl chitosan/poly ethylene oxide/polyurethane core-shell nanofibers for controlled release of doxorubicin and folic acid. <i>International Journal of Biological Macromolecules</i> , 2020, 150, 178-188.	3.6	97
17	Synthesis of PLGA/chitosan/zeolites and PLGA/chitosan/metal organic frameworks nanofibers for targeted delivery of Paclitaxel toward prostate cancer cells death. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 1461-1474.	3.6	94
18	Removal of cadmium from aqueous solution using mesoporous PVA/TEOS/APTES composite nanofiber prepared by sol-gel/electrospinning. <i>Chemical Engineering Journal</i> , 2012, 200-202, 192-201.	6.6	87

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19	Simultaneous controlled release of 5-FU, DOX and PTX from chitosan/PLA/5-FU/g-C3N4-DOX/g-C3N4-PTX triaxial nanofibers for breast cancer treatment in vitro. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 179, 495-504.	2.5	80
20	Removal of Cd(II) and Ni(II) from aqueous solution by PVA/TEOS/TMPTMS hybrid membrane. <i>Chemical Engineering Journal</i> , 2011, 175, 251-259.	6.6	77
21	Synthesis and Characterization of Natural Nano-hydroxyapatite Derived from Turkey Femur-Bone Waste. <i>Applied Biochemistry and Biotechnology</i> , 2019, 189, 919-932.	1.4	76
22	A novel biocompatible drug delivery system of chitosan/temozolomide nanoparticles loaded PCL-PU nanofibers for sustained delivery of temozolomide. <i>International Journal of Biological Macromolecules</i> , 2017, 97, 744-751.	3.6	72
23	Fabrication of chitosan/poly(lactic acid)/graphene oxide/TiO ₂ composite nanofibrous scaffolds for sustained delivery of doxorubicin and treatment of lung cancer. <i>International Journal of Biological Macromolecules</i> , 2018, 110, 416-424.	3.6	72
24	Incorporation of magnetic NaX zeolite/DOX into the PLA/chitosan nanofibers for sustained release of doxorubicin against carcinoma cells death in vitro. <i>International Journal of Biological Macromolecules</i> , 2019, 121, 398-406.	3.6	72
25	Deactivation studies of bifunctional Fe-HZSM5 catalyst in Fischer-Tropsch process. <i>Journal of Natural Gas Chemistry</i> , 2008, 17, 242-248.	1.8	70
26	Stimuli-responsive nanofibers prepared from poly(N-isopropylacrylamide-acrylamide-vinylpyrrolidone) by electrospinning as an anticancer drug delivery. <i>Designed Monomers and Polymers</i> , 2013, 16, 515-527.	0.7	66
27	Fabrication of poly(acrylic acid) grafted-chitosan/polyurethane/magnetic MIL-53 metal organic framework composite core-shell nanofibers for co-delivery of temozolomide and paclitaxel against glioblastoma cancer cells. <i>International Journal of Pharmaceutics</i> , 2020, 587, 119674.	2.6	66
28	Removal of uranium (VI) from aqueous solutions by adsorption using a novel electrospun PVA/TEOS/APTES hybrid nanofiber membrane: comparison with casting PVA/TEOS/APTES hybrid membrane. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013, 295, 563-571.	0.7	64
29	The sustained delivery of temozolomide from electrospun PCL-Diol-b-PU/gold nanocomposite nanofibers to treat glioblastoma tumors. <i>Materials Science and Engineering C</i> , 2017, 75, 165-174.	3.8	59
30	Metal organic framework nanoparticles loaded- PVDF/chitosan nanofibrous ultrafiltration membranes for the removal of BSA protein and Cr(VI) ions. <i>Journal of Molecular Liquids</i> , 2020, 317, 113934.	2.3	59
31	Interaction, Controlled Release, and Antitumor Activity of Doxorubicin Hydrochloride From pH-Sensitive P(NIPAAm-MAA-VP) Nanofibrous Scaffolds Prepared by Green Electrospinning. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2014, 63, 609-619.	1.8	53
32	Polymer incorporated magnetic nanoparticles: Applications for magneto-responsive targeted drug delivery. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 272, 115358.	1.7	51
33	Fabrication of PEO/chitosan/PCL/olive oil nanofibrous scaffolds for wound dressing applications. <i>Fibers and Polymers</i> , 2015, 16, 1201-1212.	1.1	50
34	Fabrication of PLA/MWCNT/Fe ₃ O ₄ composite nanofibers for leukemia cancer cells. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2016, 65, 176-182.	1.8	48
35	Comparative study on PVA/silica membrane functionalized with mercapto and amine groups for adsorption of Cu(II) from aqueous solutions. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2013, 44, 279-286.	2.7	44
36	Fabrication of chitosan/silica nanofibrous adsorbent functionalized with amine groups for the removal of Ni(II), Cu(II) and Pb(II) from aqueous solutions: batch and column studies. <i>RSC Advances</i> , 2016, 6, 40354-40365.	1.7	43

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37	Synthesis of magnetic gold coated poly (μ -caprolactonediol) based polyurethane/poly(N-isopropylacrylamide)-grafted-chitosan core-shell nanofibers for controlled release of paclitaxel and 5-FU. International Journal of Biological Macromolecules, 2020, 150, 1130-1140.	3.6	43
38	Effect of graphene oxide nanosheets on the geotechnical properties of cemented silty soil. Archives of Civil and Mechanical Engineering, 2016, 16, 695-701.	1.9	41
39	Optimization of the combined adsorption/photo-Fenton method for the simultaneous removal of phenol and paracetamol in a binary system. Microporous and Mesoporous Materials, 2015, 206, 1-7.	2.2	40
40	A review on the applications of electrospun chitosan nanofibers for the cancer treatment. International Journal of Biological Macromolecules, 2021, 183, 790-810.	3.6	39
41	Kinetics study of CO hydrogenation on a precipitated iron catalyst. Journal of Industrial and Engineering Chemistry, 2012, 18, 597-603.	2.9	38
42	Fabrication of PLA/PEG/MWCNT electrospun nanofibrous scaffolds for anticancer drug delivery. Journal of Applied Polymer Science, 2015, 132, .	1.3	38
43	Size-dependent studies of Fischer-Tropsch synthesis on iron based catalyst: New kinetic model. Fuel, 2014, 116, 787-793.	3.4	34
44	Simultaneous linear release of folic acid and doxorubicin from ethyl cellulose/chitosan/ $\text{C}_{30}\text{N}_{40}$ /MoS ₂ core-shell nanofibers and its anticancer properties. Journal of Biomedical Materials Research - Part A, 2021, 109, 903-914.	2.1	34
45	Electrospun gold nanorods/graphene oxide loaded-core-shell nanofibers for local delivery of paclitaxel against lung cancer during photo-chemotherapy method. European Journal of Pharmaceutical Sciences, 2021, 164, 105914.	1.9	34
46	Electrospun biocompatible poly (μ -caprolactonediol)-based polyurethane core/shell nanofibrous scaffold for controlled release of temozolomide. International Journal of Polymeric Materials and Polymeric Biomaterials, 2018, 67, 361-366.	1.8	33
47	Magnetic bioactive glasses/Cisplatin loaded-chitosan (CS)-grafted- poly (μ -caprolactone) nanofibers against bone cancer treatment. Carbohydrate Polymers, 2021, 258, 117680.	5.1	30
48	Gold coated poly (μ -caprolactonediol) based polyurethane nanofibers for controlled release of temozolomide. Biomedicine and Pharmacotherapy, 2017, 88, 667-676.	2.5	28
49	Far-reaching advances in the role of carbon nanotubes in cancer therapy. Life Sciences, 2020, 257, 118059.	2.0	26
50	Sol-gel derived SnO ₂ /Ag ₂ O ceramic nanocomposite for H ₂ gas sensing applications. Materials Research Express, 2019, 6, 1150g2.	0.8	25
51	Fischer-Tropsch synthesis over ruthenium-promoted Co/Al ₂ O ₃ catalyst with different reduction procedures. Journal of Natural Gas Chemistry, 2010, 19, 503-508.	1.8	24
52	Simultaneous degradation of phenol and paracetamol during photo-Fenton process: Design and optimization. Journal of the Taiwan Institute of Chemical Engineers, 2015, 47, 190-196.	2.7	23
53	Biosensors and nanotechnology for cancer diagnosis (lung and bronchus, breast, prostate, and) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.7	22
54	Adsorptive removal of acetaminophen and diclofenac using NaX nanozeolites synthesized by microwave method. Korean Journal of Chemical Engineering, 2015, 32, 1606-1612.	1.2	21

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55	Electrospun polyacrylonitrile/cellulose acetate/MIL-125/TiO ₂ composite nanofibers as an efficient photocatalyst and anticancer drug delivery system. <i>Cellulose</i> , 2020, 27, 10029-10045.	2.4	21
56	Adsorption and sustained release of doxorubicin from N-carboxymethyl chitosan/polyvinyl alcohol/poly(μ -caprolactone) composite and core-shell nanofibers. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 67, 102937.	1.4	18
57	Preparation of poly(vinyl alcohol)/tetraethyl orthosilicate hybrid membranes modified with TMPTMS by sol-gel method for removal of lead from aqueous solutions. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 1459-1465.	1.2	17
58	Simultaneous degradation of phenol and paracetamol using carbon/MWCNT/Fe ₃ O ₄ composite nanofibers during photo-like-Fenton process. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 63, 327-335.	2.7	17
59	Synthesis of ethyl cellulose/aluminosilicate zeolite nanofibrous membranes for oil/water separation and oil absorption. <i>Cellulose</i> , 2019, 26, 9787-9801.	2.4	17
60	Preparation of Pd-based membranes on Pd/TiO ₂ modified NaX/PSS substrate for hydrogen separation: Design and optimization. <i>Microporous and Mesoporous Materials</i> , 2016, 226, 369-377.	2.2	16
61	Adsorption, and controlled release of doxorubicin from cellulose acetate/polyurethane/multi-walled carbon nanotubes composite nanofibers. <i>Nanotechnology</i> , 2022, 33, 155102.	1.3	16
62	Preparation of colloidal nanoparticles PVA-PHEMA from hydrolysis of copolymers of PVAc-PHEMA as anticancer drug carriers. <i>Nanotechnology</i> , 2022, 33, 275603.	1.3	15
63	Synthesis of Nano-NaX Zeolite by Microwave Heating Method for Removal of Lead, Copper, and Cobalt Ions from Aqueous Solution. <i>Journal of Environmental Engineering, ASCE</i> , 2015, 141, .	0.7	13
64	Removal of lead(II) ions from aqueous solutions using diatomite nanoparticles. <i>Desalination and Water Treatment</i> , 2016, 57, 18799-18805.	1.0	13
65	Hydrocarbon production rates in Fischer-Tropsch synthesis over a Fe/Cu/La/Si catalyst. <i>Journal of Energy Chemistry</i> , 2013, 22, 119-129.	7.1	12
66	Incorporation of Hydroxyapatite/Doxorubicin into the Chitosan/Polyvinyl Alcohol/Polyurethane Nanofibers for Controlled Release of Doxorubicin and Its Anticancer Property. <i>Fibers and Polymers</i> , 2020, 21, 1634-1642.	1.1	12
67	Removal of MTBE from aqueous solution using natural nanoclays of Iran. <i>Desalination and Water Treatment</i> , 2016, 57, 27259-27268.	1.0	7
68	PVA/ λ -carrageenan/Au/camptothecin/pegylated-polyurethane/paclitaxel nanofibers against lung cancer treatment. <i>RSC Advances</i> , 2022, 12, 16310-16318.	1.7	7
69	Comparison study of phenol degradation using cobalt ferrite nanoparticles synthesized by hydrothermal and microwave methods. <i>Desalination and Water Treatment</i> , 0, , 1-10.	1.0	3