

Manouchehr Vossoughi

List of Publications by Year in descending order

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101
papers

3,819
citations

109321

35
h-index

138484

58
g-index

101
all docs

101
docs citations

101
times ranked

5177
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of metal-organic framework hybrid nanocomposites based on GO and CNT with high adsorption capacity for dye removal. <i>Chemical Engineering Journal</i> , 2017, 326, 1145-1158.	12.7	494
2	Synthesis of magnetic metal-organic framework nanocomposite (ZIF-8@SiO ₂ @MnFe ₂ O ₄) as a novel adsorbent for selective dye removal from multicomponent systems. <i>Microporous and Mesoporous Materials</i> , 2019, 273, 177-188.	4.4	135
3	Efficient dye removal from aqueous solution by high-performance electrospun nanofibrous membranes through incorporation of SiO ₂ nanoparticles. <i>Journal of Cleaner Production</i> , 2018, 183, 1197-1206.	9.3	121
4	Activated carbon/metal-organic framework nanocomposite: Preparation and photocatalytic dye degradation mathematical modeling from wastewater by least squares support vector machine. <i>Journal of Environmental Management</i> , 2019, 233, 660-672.	7.8	115
5	Synthesis of amine-modified zeolitic imidazolate framework-8, ultrasound-assisted dye removal and modeling. <i>Ultrasonics Sonochemistry</i> , 2017, 39, 550-564.	8.2	112
6	Clay-based electrospun nanofibrous membranes for colored wastewater treatment. <i>Applied Clay Science</i> , 2019, 168, 77-86.	5.2	105
7	Fabrication and evaluation of chitosan/gelatin/PVA hydrogel incorporating honey for wound healing applications: An in vitro, in vivo study. <i>International Journal of Pharmaceutics</i> , 2021, 592, 120068.	5.2	99
8	Application of nano-structured materials in anaerobic digestion: Current status and perspectives. <i>Chemosphere</i> , 2019, 229, 188-199.	8.2	95
9	Accelerated full-thickness wound healing via sustained bFGF delivery based on a PVA/chitosan/gelatin hydrogel incorporating PCL microspheres. <i>International Journal of Pharmaceutics</i> , 2018, 537, 278-289.	5.2	93
10	Synthesis of porous TiO ₂ /ZrO ₂ photocatalyst derived from zirconium metal organic framework for degradation of organic pollutants under visible light irradiation. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103096.	6.7	93
11	Photocatalytic degradation of furfural by titania nanoparticles in a floating-bed photoreactor. <i>Chemical Engineering Journal</i> , 2009, 146, 79-85.	12.7	92
12	Co-microencapsulation of <i>Lactobacillus plantarum</i> and DHA fatty acid in alginate-pectin-gelatin biocomposites. <i>Carbohydrate Polymers</i> , 2018, 199, 266-275.	10.2	91
13	Poly(citric acid)-block-poly(ethylene glycol) copolymers as new biocompatible hybrid materials for nanomedicine. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2010, 6, 556-562.	3.3	85
14	Effect of various carbon sources on biomass and lipid production of <i>Chlorella vulgaris</i> during nutrient sufficient and nitrogen starvation conditions. <i>Bioresource Technology</i> , 2015, 180, 311-317.	9.6	84
15	Optimization of culture medium and modeling of curdlan production from <i>Paenibacillus polymyxa</i> by RSM and ANN. <i>International Journal of Biological Macromolecules</i> , 2014, 70, 463-473.	7.5	70
16	Folate-Receptor-Targeted Delivery of Doxorubicin Using Polyethylene Glycol-Functionalized Gold Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 1958-1963.	3.7	67
17	Optimized coupling of an intermittent DC electric field with a membrane bioreactor for enhanced effluent quality and hindered membrane fouling. <i>Separation and Purification Technology</i> , 2015, 152, 7-13.	7.9	65
18	A comparative study of wound dressings loaded with silver sulfadiazine and silver nanoparticles: In vitro and in vivo evaluation. <i>International Journal of Pharmaceutics</i> , 2019, 564, 350-358.	5.2	60

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19	Enhanced decolorization of rhodamine B solution through simultaneous photocatalysis and persulfate activation over Fe/C ₃ N ₄ photocatalyst. <i>Chemical Engineering Research and Design</i> , 2020, 153, 709-720.	5.6	60
20	Influence of Global and Local Membrane Curvature on Mechanosensitive Ion Channels: A Finite Element Approach. <i>Membranes</i> , 2016, 6, 14.	3.0	58
21	Antimicrobial Wound Dressing Containing Silver Sulfadiazine With High Biocompatibility: In Vitro Study. <i>Artificial Organs</i> , 2016, 40, 765-773.	1.9	55
22	Evaluation of cellular attachment and proliferation on different surface charged functional cellulose electrospun nanofibers. <i>Carbohydrate Polymers</i> , 2019, 207, 796-805.	10.2	54
23	Designed Amino Acid Feed in Improvement of Production and Quality Targets of a Therapeutic Monoclonal Antibody. <i>PLoS ONE</i> , 2015, 10, e0140597.	2.5	53
24	Ag-doped magnetic metal organic framework as a novel nanostructured material for highly efficient antibacterial activity. <i>Environmental Research</i> , 2020, 188, 109555.	7.5	50
25	A Biomimetic Heparinized Composite Silk-Based Vascular Scaffold with sustained Antithrombogenicity. <i>Scientific Reports</i> , 2017, 7, 4455.	3.3	46
26	A porous hydrogel-electrospun composite scaffold made of oxidized alginate/gelatin/silk fibroin for tissue engineering application. <i>Carbohydrate Polymers</i> , 2020, 245, 116465.	10.2	46
27	Tissue growth into three-dimensional composite scaffolds with controlled micro-features and nanotopographical surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101, 2796-2807.	4.0	44
28	Experimental Investigation of Nano-Biomaterial Applications for Heavy Oil Recovery in Shaly Porous Models: A Pore-Level Study. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2015, 137, .	2.3	44
29	Efficient protein immobilization on polyethersulfone electrospun nanofibrous membrane via covalent binding for biosensing applications. <i>Materials Science and Engineering C</i> , 2016, 58, 586-594.	7.3	44
30	E. coli inactivation by visible light irradiation using a Fe ³⁺ /Cd/TiO ₂ photocatalyst: Statistical analysis and optimization of operating parameters. <i>Applied Catalysis B: Environmental</i> , 2015, 168-169, 441-447.	20.2	43
31	Design and Synthesis of Novel Polyglycerol Hybrid Nanomaterials for Potential Applications in Drug Delivery Systems. <i>Macromolecular Bioscience</i> , 2011, 11, 383-390.	4.1	40
32	Fabrication of hierarchically porous silk fibroin-bioactive glass composite scaffold via indirect 3D printing: Effect of particle size on physico-mechanical properties and in vitro cellular behavior. <i>Materials Science and Engineering C</i> , 2019, 103, 109688.	7.3	40
33	Effects of electrophoretic deposition parameters on the photocatalytic activity of TiO ₂ films: Optimization by response surface methodology. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 452, 1-8.	4.7	39
34	Photocatalytic degradation of dibenzothiophene using La/PEG-modified TiO ₂ under visible light irradiation. <i>Research on Chemical Intermediates</i> , 2015, 41, 4151-4167.	2.7	39
35	Magnetoelectric nanocomposite scaffold for high yield differentiation of mesenchymal stem cells to neural-like cells. <i>Journal of Cellular Physiology</i> , 2019, 234, 13617-13628.	4.1	37
36	The use of halophytic plants for salt phytoremediation in constructed wetlands. <i>International Journal of Phytoremediation</i> , 2017, 19, 643-650.	3.1	36

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37	Label-free and simple detection of endotoxins using a sensitive LSPR biosensor based on silver nanocolumns. <i>Analytical Biochemistry</i> , 2018, 548, 96-101.	2.4	36
38	<p>Doxorubicin/Cisplatin-Loaded Superparamagnetic Nanoparticles As A Stimuli-Responsive Co-Delivery System For Chemo-Photothermal Therapy</p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 8769-8786.	6.7	36
39	In-situ formation and entrapment of Ag/AgCl photocatalyst inside cross-linked carboxymethyl cellulose beads: A novel photoactive hydrogel for visible-light-induced photocatalysis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 398, 112559.	3.9	36
40	In vitro biocompatibility evaluations of hyperbranched polyglycerol hybrid nanostructure as a candidate for nanomedicine applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 499-506.	3.6	35
41	The role of co-solvents in improving the direct transesterification of wet microalgal biomass under supercritical condition. <i>Bioresource Technology</i> , 2015, 193, 90-96.	9.6	34
42	Enhancement of Efficient Ag&S/TiO₂ Nanophotocatalyst for Photocatalytic Degradation under Visible Light. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 9578-9586.	3.7	33
43	Green synthesis of PEG-coated MIL-100(Fe) for controlled release of dacarbazine and its anticancer potential against human melanoma cells. <i>International Journal of Pharmaceutics</i> , 2022, 618, 121647.	5.2	32
44	Effective surface modification of MnFe 2 O 4 @SiO 2 @PMIDA magnetic nanoparticles for rapid and high-density antibody immobilization. <i>Applied Surface Science</i> , 2017, 426, 1023-1029.	6.1	27
45	Gold-Plated Electrode with High Scratch Strength for Electrophysiological Recordings. <i>Scientific Reports</i> , 2019, 9, 2985.	3.3	27
46	Synthesis of gold nanoparticle necklaces using linear"dendritic copolymers. <i>European Polymer Journal</i> , 2010, 46, 165-170.	5.4	26
47	Carbon Nanotube Modified Microelectrode Array for Neural Interface. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 582713.	4.1	25
48	Green Electrospun Membranes Based on Chitosan/Amino-Functionalized Nanoclay Composite Fibers for Cationic Dye Removal: Synthesis and Kinetic Studies. <i>ACS Omega</i> , 2021, 6, 10816-10827.	3.5	24
49	Experimental study and thermodynamic modeling for determining the effect of non-polar solvent (hexane)/polar solvent (methanol) ratio and moisture content on the lipid extraction efficiency from <i>Chlorella vulgaris</i> . <i>Bioresource Technology</i> , 2016, 201, 304-311.	9.6	22
50	Individual and interaction effects of operating parameters on the photocatalytic degradation under visible light illumination: Response surface methodological approach. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 1228-1235.	1.7	22
51	A new bifunctional hybrid nanostructure as an active platform for photothermal therapy and MR imaging. <i>Scientific Reports</i> , 2016, 6, 27847.	3.3	20
52	Nanofibrillated chitosan coated highly ordered titania nanotubes array/graphene nanocomposite with improved biological characters. <i>Carbohydrate Polymers</i> , 2021, 254, 117465.	10.2	20
53	The effect of local bending on gating of MscL using a representative volume element and finite element simulation. <i>Channels</i> , 2014, 8, 344-349.	2.8	19
54	Paclitaxel/Î²-CD-g-PG inclusion complex: An insight into complexation thermodynamics and guest solubility. <i>Journal of Molecular Liquids</i> , 2015, 208, 145-150.	4.9	19

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55	Preparation of electrospun affinity membrane and cross flow system for dynamic removal of anionic dye from colored wastewater. <i>Fibers and Polymers</i> , 2017, 18, 2387-2399.	2.1	18
56	Soluble expression of IGF1 fused to DsbA in SHuffleâ„¢ T7 strain: optimization of expression and purification by Box-Behnken design. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 3393-3406.	3.6	18
57	An efficient approach to cathode operational parameters optimization for microbial fuel cell using response surface methodology. <i>Journal of Environmental Health Science & Engineering</i> , 2014, 12, 33.	3.0	17
58	Photocatalytic removal of 2-nitrophenol using silver and sulfur co-doped TiO ₂ under natural solar light. <i>Water Science and Technology</i> , 2015, 72, 339-346.	2.5	17
59	Electrospun polyethersulfone nanofibrous membrane as novel platform for protein immobilization in microfluidic systems. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 1108-1120.	3.4	17
60	Nano reengineering of horseradish peroxidase with dendritic macromolecules for stability enhancement. <i>Enzyme and Microbial Technology</i> , 2012, 50, 10-16.	3.2	16
61	A new approach for simultaneously improved osseointegration and antibacterial activity by electrochemical deposition of graphene nanolayers over titania nanotubes. <i>Applied Surface Science</i> , 2022, 580, 152263.	6.1	16
62	Photothermal properties of two-dimensional molybdenum disulfide (MoS ₂) with nanoflower and nanosheet morphology. <i>Materials Research Bulletin</i> , 2022, 152, 111837.	5.2	16
63	Bioâ€œoxidation of ferrous ions by <i>Acidithiobacillus ferrooxidans</i> in a monolithic bioreactor. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 504-510.	3.2	15
64	Different types of electrospun nanofibers and their effect on microfluidicâ€œbased immunoassay. <i>Polymers for Advanced Technologies</i> , 2019, 30, 973-982.	3.2	15
65	Liquidâ€œliquid equilibrium (LLE) data for ternary mixtures of {aliphatic+p-xylene+[EMpy][ESO ₄]} at T=313.15K. <i>Fluid Phase Equilibria</i> , 2012, 332, 48-54.	2.5	14
66	Hybrid Magnetic-DNA Directed Immobilisation Approach for Efficient Protein Capture and Detection on Microfluidic Platforms. <i>Scientific Reports</i> , 2017, 7, 194.	3.3	14
67	Biodegradability of oily wastewater using rotating biological contactor combined with an external membrane. <i>Journal of Environmental Health Science & Engineering</i> , 2014, 12, 117.	3.0	13
68	In-situ crosslinking of electrospun gelatin-carbodiimide nanofibers: fabrication, characterization, and modeling of solution parameters. <i>Chemical Engineering Communications</i> , 2021, 208, 976-992.	2.6	13
69	Enzymatic and soil burial degradation of corn starch/glycerol/sodium montmorillonite nanocomposites. <i>Polymers From Renewable Resources</i> , 2020, 11, 15-29.	1.3	12
70	A new insight to deformability correlation of circulating tumor cells with metastatic behavior by application of a new deformability-based microfluidic chip. <i>Analytica Chimica Acta</i> , 2021, 1186, 339115.	5.4	12
71	Bioconjugation of Interferon-alpha Molecules to Lysine-Capped Gold Nanoparticles for Further Drug Delivery Applications. <i>Journal of Dispersion Science and Technology</i> , 2008, 29, 1062-1065.	2.4	11
72	Experimental study and thermodynamic modeling for purification of extracted algal lipids using an organic/aqueous two-phase system. <i>RSC Advances</i> , 2015, 5, 1153-1160.	3.6	10

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73	Design and fabrication of an electrochemical ² -based nanofibrous immunosensor for detection of prostate cancer biomarker, <sc>PSMA</sc>. <i>Polymers for Advanced Technologies</i> , 2022, 33, 1967-1977.	3.2	10
74	Prediction of the Selectivity Coefficient of Ionic Liquids in Liquid-Liquid Equilibrium Systems Using Artificial Neural Network and Excess Gibbs Free Energy Models. <i>Particulate Science and Technology</i> , 2010, 28, 379-391.	2.1	9
75	Novel Approach for Liquid ² -Liquid Phase Equilibrium of Biodiesel (Canola and Sunflower) + Glycerol + Methanol. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 855-864.	3.7	9
76	Magnetite nanoparticle as a support for stabilization of chondroitinase ABCI. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2019, 47, 2721-2728.	2.8	9
77	Examination of chondroitinase ABC I immobilization onto dextran-coated Fe ₃ O ₄ nanoparticles and its in-vitro release. <i>Journal of Biotechnology</i> , 2020, 309, 131-141.	3.8	9
78	Hybrid silk fibroin ² -gelatin nanofibrous sheet for drug delivery and regenerative medicine: In ² -vitro characterization and controlled release of simvastatin/protein. <i>Polymers for Advanced Technologies</i> , 2021, 32, 1333-1344.	3.2	9
79	Monodispersed Polymeric Nanoparticles Fabrication by Electrospray Atomization. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2012, 61, 611-626.	3.4	8
80	Two Nanostructured Polymers: Polyaniline Nanofibers and New Linear-dendritic Matrix of Poly(citric) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2013, 62, 377-383.	3.4	8
81	Estimation of Biodiesel Physical Properties Using Local Composition Based Models. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 13518-13526.	3.7	7
82	Prediction of liquid ² -liquid equilibrium behavior for aliphatic+aromatic+ionic liquid using two different neural network-based models. <i>Fluid Phase Equilibria</i> , 2015, 394, 140-147.	2.5	7
83	Dual improvement of DNA-directed antibody immobilization utilizing magnetic fishing and a polyamine coated surface. <i>RSC Advances</i> , 2016, 6, 111210-111216.	3.6	7
84	Survivability and oxidative stability of co-microencapsulated L. Plantarum PTCC 1058 and DHA as a juice carrier. <i>Food Bioscience</i> , 2019, 32, 100460.	4.4	7
85	Liquid ² -liquid phase equilibrium of MgSO ₄ and PEG1500 aqueous two-phase system. <i>Physics and Chemistry of Liquids</i> , 2010, 48, 764-772.	1.2	6
86	Ethylene glycol biodegradation in microbial fuel cell. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2016, 38, 1096-1102.	2.3	6
87	Quantitative Proteomic Analysis of Cellular Responses to a Designed Amino Acid Feed in a Monoclonal Antibody Producing Chinese Hamster Ovary Cell Line. <i>Iranian Biomedical Journal</i> , 2018, 22, 385-393.	0.7	6
88	HRP-dendron nanoparticles: The efficient biocatalyst for enzymatic polymerization of poly(2,5-dimethoxyaniline). <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 90, 139-143.	1.8	5
89	Unraveling Cancer Metastatic Cascade Using Microfluidics-based Technologies. <i>Biophysical Reviews</i> , 2022, 14, 517-543.	3.2	5
90	NOVEL METHOD FOR CANCER CELL APOPTOSIS BY LOCALIZED UV LIGHT WITH GOLD NANOSTRUCTURES: A THEORETICAL INVESTIGATION. <i>Nano</i> , 2010, 05, 325-332.	1.0	4

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91	Simultaneously Synthesis and Encapsulation of Metallic Nanoparticles Using Linear Dendritic Block Copolymers of Poly(ethylene glycol)-Poly(citric acid). Key Engineering Materials, 0, 478, 7-12.	0.4	4
92	Evaluation of trichloroethylene degradation by starch supported Fe/Ni nanoparticles via response surface methodology. Water Science and Technology, 2016, 73, 935-946.	2.5	4
93	Extension of the Wilson-NRF Gibbs Energy Model in Correlating Vapor-Liquid and Liquid-Liquid Phase Behavior of Polymer-Polymer Aqueous Two-Phase Systems. Journal of Dispersion Science and Technology, 2009, 30, 534-539.	2.4	3
94	Self-Assembly of Tryptophan-Capped Gold Nanoparticles onto DNA Network Template. Journal of Dispersion Science and Technology, 2009, 30, 255-259.	2.4	3
95	A New Gibbs Energy Model for Obtaining Thermophysical Properties of Aqueous Electrolyte Solutions. Journal of Solution Chemistry, 2009, 38, 171-186.	1.2	3
96	Size and Geometry of Multielectrode Arrays Determine the Efficiency of Electrical Interaction With Neurons Through Double-Layer Capacitance. IEEE Sensors Journal, 2019, 19, 2829-2836.	4.7	3
97	A New Hydration Model in Correlating the Mean Ionic Activity Coefficient and Density of Aqueous Electrolyte Solutions. Journal of Dispersion Science and Technology, 2010, 31, 641-649.	2.4	2
98	Magnetic labelled HRP-polymer nanoparticles: A recyclable nanobiocatalyst. Journal of the Serbian Chemical Society, 2013, 78, 921-931.	0.8	2
99	Immobilization of α -Chymotrypsin on the Surface of Magnetic/Gold Core/Shell Nanoparticles. Journal of Nanotechnology, 2013, 2013, 1-7.	3.4	2
100	Modeling of Osmotic Pressure of Aqueous Poly(Ethylene Glycol) Solutions Using the Artificial Neural Network and Free Volume Flory Huggins Model. Journal of Dispersion Science and Technology, 2011, 32, 1054-1059.	2.4	1
101	Study of phase behaviour for the aqueous two-phase polymer-polymer systems using the modified UNIQUAC-NRF model. Physics and Chemistry of Liquids, 2009, 47, 148-159.	1.2	0