Payam Zahedi

List of Publications by Citations

53 papers	1,493 citations	19 h-index	38 g-index
55 ext. papers	1,775 ext. citations	3.6 avg, IF	4.94 L-index

#	Paper	IF	Citations
53	A review on wound dressings with an emphasis on electrospun nanofibrous polymeric bandages. *Polymers for Advanced Technologies*, **2010**, 21, 77-95	3.2	501
52	Preparation and performance evaluations of electrospun poly(Ɛ-caprolactone), poly(lactic acid), and their hybrid (50/50) nanofibrous mats containing thymol as an herbal drug for effective wound healing. *Journal of Applied Polymer Science*, **2013**, 129, 756-766	2.9	124
51	Preparation and performance evaluation of tetracycline hydrochloride loaded wound dressing mats based on electrospun nanofibrous poly(lactic acid)/poly(?-caprolactone) blends. *Journal of Applied Polymer Science*, **2012**, 124, 4174-4183	2.9	105
50	Morphology, drug release, antibacterial, cell proliferation, and histology studies of chamomile-loaded wound dressing mats based on electrospun nanofibrous poly(e-caprolactone)/polystyrene blends. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2014**, 102, 977-87	3.5	76
49	Biomacromolecule template-based molecularly imprinted polymers with an emphasis on their synthesis strategies: a review. *Polymers for Advanced Technologies*, **2016**, 27, 1124-1142	3.2	44
48	Drug release, cell adhesion and wound healing evaluations of electrospun carboxymethyl chitosan/polyethylene oxide nanofibres containing phenytoin sodium and vitamin C. *IET Nanobiotechnology*, **2015**, 9, 191-200	2	43
47	Fabrication and characterization of electrospun laminin-functionalized silk fibroin/poly(ethylene oxide) nanofibrous scaffolds for peripheral nerve regeneration. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2018**, 106, 1595-1604	3.5	40
46	Using FeO-coated nanofibers based on cellulose acetate/chitosan for adsorption of Cr(VI), Ni(II) and phenol from aqueous solutions. *International Journal of Biological Macromolecules*, **2020**, 154, 1132-1139	7.9	31
45	In vitro and in vivo evaluations of phenytoin sodium-loaded electrospun PVA, PCL, and their hybrid nanofibrous mats for use as active wound dressings. *Journal of Materials Science*, **2013**, 48, 3147-3159	4.3	30
44	Physical, morphological, and biological studies on PLA/nHA composite nanofibrous webs containing Equisetum arvense herbal extract for bone tissue engineering. *Journal of Applied Polymer Science*, **2017**, 134, 45343	2.9	29
43	Preparation and release properties of electrospun poly(vinyl alcohol)/poly(e-caprolactone) hybrid nanofibers: Optimization of process parameters via D-optimal design method. *Macromolecular Research*, **2013**, 21, 649-659	1.9	28
42	Rubber Adhesion to Different Substrates and Its Importance in Industrial Applications: A Review. *Journal of Adhesion Science and Technology*, **2012**, 26, 721-744	2	27
41	Electrospun egg albumin-PVA nanofibers containing tetracycline hydrochloride: Morphological, drug release, antibacterial, thermal and mechanical properties. *Fibers and Polymers*, **2015**, 16, 2184-2192	2	26
40	Microfluidic-aided fabrication of nanoparticles blend based on chitosan for a transdermal multidrug delivery application. *International Journal of Biological Macromolecules*, **2017**, 99, 433-442	7.9	24
39	Performance evaluation of poly (l-lactide-co-D, l-lactide)/poly (acrylic acid) blends and their nanofibers for tissue engineering applications. *International Journal of Biological Macromolecules*, **2019**, 122, 1008-1016	7.9	24
38	PET/imidazolium-based OMMT nanocomposites via in situ polymerization: Morphological, thermal, and nonisothermal crystallization studies. *Advances in Polymer Technology*, **2007**, 26, 247-257	1.9	23
37	An investigation on the rheology, morphology, thermal and mechanical properties of recycled poly (ethylene terephthalate) reinforced with modified short glass fibers. *Polymer Composites*, **2009**, 30, 993-999	2	20

36	Improvements of physical and mechanical properties of electron beam irradiation□rosslinked EVA foams. *Polymers for Advanced Technologies*, **2009**, 20, 487-492	3.2	19
35	Chitosan-based nanocomposite membranes with improved properties: Effect of cellulose acetate blending and TiO2 nanoparticles incorporation. *Polymer Composites*, **2018**, 39, 4452-4466	3	19
34	Microfluidics combined with ionic gelation method for production of nanoparticles based on thiol-functionalized chitosan to adsorb Hg (II) from aqueous solutions. *Journal of Environmental Management*, **2019**, 238, 166-177	7.9	18
33	Synthesis and characterization of poly(methacrylic acid)-based molecularly imprinted polymer nanoparticles for controlled release of trinitroglycerin. *Polymers for Advanced Technologies*, **2016**, 27, 1164-1171	3.2	16
32	Acrylamide-plasma treated electrospun polystyrene nanofibrous adsorbents for cadmium and nickel ions removal from aqueous solutions. *Journal of Applied Polymer Science*, **2016**, 133, n/a-n/a	2.9	15
31	Morphological, thermal and drug release studies of poly (methacrylic acid)-based molecularly imprinted polymer nanoparticles immobilized in electrospun poly (□caprolactone) nanofibers as dexamethasone delivery system. *Korean Journal of Chemical Engineering*, **2017**, 34, 2110-2118	2.8	14
30	Antibacterial nanofibers based on poly(l-lactide--d, l-lactide) and poly(vinyl alcohol) used in wound dressings potentially: a comparison between hybrid and blend properties. *Journal of Biomaterials Science, Polymer Edition*, **2020**, 31, 219-243	3.5	14
29	Three-layered electrospun PVA/PCL/PVA nanofibrous mats containing tetracycline hydrochloride and phenytoin sodium: A case study on sustained control release, antibacterial, and cell culture properties. *Journal of Applied Polymer Science*, **2016**, 133, n/a-n/a	2.9	14
28	Microfluidic Fabrication of Nanoparticles Based on Ethyl Acrylate-Functionalized Chitosan for Adsorption of Methylene Blue from Aqueous Solutions. *Journal of Polymers and the Environment*, **2019**, 27, 1653-1665	4.5	13
27	Synthesis of poly(2-hydroxyethyl methacrylate)-based molecularly imprinted polymer nanoparticles containing timolol maleate: morphological, thermal, and drug release along with cell biocompatibility studies. *Polymers for Advanced Technologies*, **2017**, 28, 828-841	3.2	12
26	Poly (methacrylic acid)-based molecularly imprinted polymer nanoparticles containing 5-fluourouracil used in colon cancer therapy potentially. *Polymers for Advanced Technologies*, **2018**, 29, 2401-2409	3.2	12
25	Cellulose acetate/poly(vinyl alcohol) hybrid fibrous mat containing tetracycline hydrochloride and phenytoin sodium: Morphology, drug release, antibacterial, and cell culture studies. *Journal of Bioactive and Compatible Polymers*, **2018**, 33, 597-611	2	12
24	Blends of poly(ethylene terephthalate)/polycarbonate by the use of lanthanum acetyl acetonate catalyst. *Journal of Applied Polymer Science*, **2008**, 107, 2917-2922	2.9	11
23	Electrospun poly (N-isopropylacrylamide-co-acrylic acid)/cellulose laurate blend nanofibers containing adapalene: Morphology, drug release, and cell culture studies. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2016**, 65, 477-486	3	10
22	Enhanced osteogenesis using poly (l-lactide-co-d, l-lactide)/poly (acrylic acid) nanofibrous scaffolds in presence of dexamethasone-loaded molecularly imprinted polymer nanoparticles. *International Journal of Biological Macromolecules*, **2020**, 165, 2363-2377	7.9	10
21	On-Chip Preparation of Streptokinase Entrapped in Chitosan Nanoparticles Used in Thrombolytic Therapy Potentially. *Journal of Pharmaceutical Sciences*, **2017**, 106, 3623-3630	3.9	9
20	Effects of BaSO4, CaCO3, kaolin and quartz fillers on mechanical, chemical and morphological properties of cast polyurethane. *Plastics, Rubber and Composites*, **2012**, 41, 263-269	1.5	8
19	Formulation and curing characteristics of EPDM/NR and EPDM/SBR polyblends used in metallic surfaces rubber lining. *Journal of Applied Polymer Science*, **2009**, 113, 849-854	2.9	7

18	Ovarian Cell Encapsulation in an Enzymatically Crosslinked Silk-Based Hydrogel with Tunable Mechanical Properties. *Gels*, **2021**, 7,	4.2	7
17	Microfluidic-Assisted Preparation of 5-Fluorouracil-Loaded PLGA Nanoparticles as a Potential System for Colorectal Cancer Therapy. *Materials*, **2020**, 13,	3.5	6
16	Optimization of electrospinning parameters for producing silk fibroin/poly(ethylene oxide) nanofibers using D-optimal method. *Journal of Natural Fibers*, **2019**, 16, 1113-1123	1.8	6
15	5-Fluorouracil-loaded poly(vinyl alcohol)/chitosan blend nanofibers: morphology, drug release and cell culture studies. *Iranian Polymer Journal (English Edition)*, **2021**, 30, 167-177	2.3	6
14	Microfluidic-assisted production of poly(e-caprolactone) and cellulose acetate nanoparticles: effects of polymers, surfactants, and flow rate ratios. *Polymer Bulletin*, **2020**, 78, 5449	2.4	5
13	Optimized formulation of an oxidative curing system for liquid polysulfide sealants used in fuel tanks by D-optimal design method. *Journal of Applied Polymer Science*, **2011**, 120, 2550-2562	2.9	5
12	Microfluidic-based synthesized carboxymethyl chitosan nanoparticles containing metformin for diabetes therapy: In vitro and in vivo assessments. *Carbohydrate Polymers*, **2021**, 261, 117889	10.3	5
11	Isosorbide dinitrate template-based molecularly imprinted poly(methacrylic acid) nanoparticles: effect of initiator concentration on morphology and physicochemical properties. *Chemical Papers*, **2018**, 72, 3005-3016	1.9	4
10	Fabrication of random and aligned-oriented cellulose acetate nanofibers containing betamethasone sodium phosphate: structural and cell biocompatibility evaluations. *Journal of Polymer Engineering*, **2017**, 37, 911-920	1.4	4
9	Osteogenesis enhancement using poly (l-lactide-co-d, l-lactide)/poly (vinyl alcohol) nanofibrous scaffolds reinforced by phospho-calcified cellulose nanowhiskers. *International Journal of Biological Macromolecules*, **2021**, 182, 168-178	7.9	4
8	Expanded graphene oxide-supported molecularly imprinted polymer nanoparticles based on polystyrene for dibenzothiophene removal. *Journal of Sulfur Chemistry*, **2019**, 40, 539-553	2.3	3
7	Comparison between mechanical properties of aged and unaged silicone rubbers filled with titanium dioxide, quartz, aluminium silicate and vulkasil (s type). *Plastics, Rubber and Composites*, **2009**, 38, 257-263	1.5	3
6	Effect of Si/Al Ratio in the Faujasite Structure on Adsorption of Methane and Nitrogen: A Molecular Dynamics Study. *Chemical Engineering and Technology*, **2021**, 44, 1221-1226	2	2
5	Conductive conduit based on electrospun poly (l-lactide-co-D, l-lactide) nanofibers containing 4-aminopyridine-loaded molecularly imprinted poly (methacrylic acid) nanoparticles used for peripheral nerve regeneration. *International Journal of Biological Macromolecules*, **2021**, 190, 499-507	7.9	2
4	Silk Fibroin Nanoparticles Functionalized with Fibronectin for Release of Vascular Endothelial Growth Factor to Enhance Angiogenesis. *Journal of Natural Fibers*,1-12	1.8	1
3	Development of microfluidic-based cellulose acetate phthalate nanoparticles containing omeprazole for antiulcer activity: In vitro and in vivo evaluations. *European Polymer Journal*, **2021**, 147, 110294	5.2	1
2	A Novel Approach for Development of Intraocular Biodegradable Ranibizumab Implant: A Solution for Stability of Protein Activity. *Advanced Pharmaceutical Bulletin*, **2021**, 11, 632-642	4.5	0
1	Hydrophilic modification and cross-linking of polystyrene using the synthesized N,N?-(hexane-1,6-diyl)diacrylamide. *Polymer Bulletin*, **2021**, 78, 1379-1391	2.4	