

Mohammad Jafar Abdekhodaie

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

2,028
citations

257101

24
h-index

243296

44
g-index

60
all docs

60
docs citations

60
times ranked

3300
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel modified starch-xanthan gum hydrogels for controlled drug delivery: Synthesis and characterization. <i>Carbohydrate Polymers</i> , 2010, 79, 898-907.	5.1	219
2	High-Capacity Hierarchically Imprinted Polymer Beads for Protein Recognition and Capture. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 495-498.	7.2	156
3	Gelation time and degradation rate of chitosan-based injectable hydrogel. <i>Journal of Sol-Gel Science and Technology</i> , 2007, 42, 47-53.	1.1	131
4	An injectable platelet lysate-hyaluronic acid hydrogel supports cellular activities and induces chondrogenesis of encapsulated mesenchymal stem cells. <i>Acta Biomaterialia</i> , 2019, 83, 233-244.	4.1	92
5	Column study of Cr (VI) adsorption onto modified silica-polyacrylamide microspheres composite. <i>Chemical Engineering Journal</i> , 2012, 210, 280-288.	6.6	91
6	Synthesis and characterization of a new thermosensitive chitosan-PEG diblock copolymer. <i>Carbohydrate Polymers</i> , 2008, 74, 435-441.	5.1	89
7	Sustained release intraocular drug delivery devices for treatment of uveitis. <i>Journal of Ophthalmic and Vision Research</i> , 2011, 6, 317-29.	0.7	84
8	Design of pH-responsive nanoparticles of terpolymer of poly(methacrylic acid), polysorbate 80 and starch for delivery of doxorubicin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 101, 405-413.	2.5	73
9	Molecularly imprinted polydopamine nano-layer on the pore surface of porous particles for protein capture in HPLC column. <i>Journal of Colloid and Interface Science</i> , 2013, 404, 117-126.	5.0	68
10	Stereolithography 3D Bioprinting Method for Fabrication of Human Corneal Stroma Equivalent. <i>Annals of Biomedical Engineering</i> , 2020, 48, 1955-1970.	1.3	62
11	Chitosan-g-PLGA copolymer as a thermosensitive membrane. <i>Carbohydrate Polymers</i> , 2010, 80, 740-746.	5.1	55
12	Fluid particle diffusion through high-hematocrit blood flow within a capillary tube. <i>Journal of Biomechanics</i> , 2011, 44, 170-175.	0.9	53
13	Engineering folate-targeting diselenide-containing triblock copolymer as a redox-responsive shell-sheddable micelle for antitumor therapy in vivo. <i>Acta Biomaterialia</i> , 2018, 76, 239-256.	4.1	53
14	Bioengineering Approaches for Corneal Regenerative Medicine. <i>Tissue Engineering and Regenerative Medicine</i> , 2020, 17, 567-593.	1.6	50
15	Effects of polydimethylsiloxane grafting on the calcification, physical properties, and biocompatibility of polyurethane in a heart valve. <i>Journal of Applied Polymer Science</i> , 2005, 98, 758-766.	1.3	44
16	Synthesis and characterization of biodegradable acrylated polyurethane based on poly(μ -caprolactone) and 1,6-hexamethylene diisocyanate. <i>Materials Science and Engineering C</i> , 2014, 42, 763-773.	3.8	44
17	Diffusional release of a dispersed solute from planar and spherical matrices into finite external volume. <i>Journal of Controlled Release</i> , 1997, 43, 175-182.	4.8	40
18	Biodegradable polyurethane acrylate/HEMA-grafted nanodiamond composites with bone regenerative potential applications: structure, mechanical properties and biocompatibility. <i>RSC Advances</i> , 2016, 6, 8743-8755.	1.7	40

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19	Submicron nanoporous polyacrylamide beads with tunable size for verapamil imprinting. <i>Journal of Applied Polymer Science</i> , 2012, 125, 189-199.	1.3	38
20	Thermodynamic properties of aqueous salt containing urea solutions. <i>Fluid Phase Equilibria</i> , 2012, 325, 71-79.	1.4	34
21	Construction of 3D fibrous PCL scaffolds by coaxial electrospinning for protein delivery. <i>Materials Science and Engineering C</i> , 2020, 113, 110913.	3.8	32
22	Computational modeling of drug distribution in the posterior segment of the eye: Effects of device variables and positions. <i>Mathematical Biosciences</i> , 2014, 255, 11-20.	0.9	31
23	Modeling of a glucose sensitive composite membrane for closed-loop insulin delivery. <i>Journal of Membrane Science</i> , 2009, 335, 21-31.	4.1	25
24	ZnO nanoparticle/nanorod-based label-free electrochemical immunoassay for rapid detection of MMP-9 biomarker. <i>Biochemical Engineering Journal</i> , 2020, 164, 107772.	1.8	25
25	Modeling of a cationic glucose-sensitive membrane with consideration of oxygen limitation. <i>Journal of Membrane Science</i> , 2005, 254, 119-127.	4.1	24
26	Developing hyaluronic acid microgels for sustained delivery of platelet lysate for tissue engineering applications. <i>International Journal of Biological Macromolecules</i> , 2020, 144, 837-846.	3.6	24
27	Diffusional release of a dispersed solute from a spherical polymer matrix. <i>Journal of Membrane Science</i> , 1996, 115, 171-178.	4.1	23
28	Retina-Choroid-Sclera Permeability for Ophthalmic Drugs in the Vitreous to Blood Direction: Quantitative Assessment. <i>Pharmaceutical Research</i> , 2013, 30, 41-59.	1.7	22
29	Free radical graft polymerization of 2-hydroxyethyl methacrylate and acrylic acid on the polysulfone membrane surface through circulation of reaction media to improve its performance and hemocompatibility properties. <i>Journal of Membrane Science</i> , 2018, 564, 762-772.	4.1	21
30	Drug loading onto ion-exchange microspheres: Modeling study and experimental verification. <i>Biomaterials</i> , 2006, 27, 3652-62.	5.7	20
31	Laboratory detection methods for the human coronaviruses. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2021, 40, 225-246.	1.3	20
32	Electrochemical prostate-specific antigen biosensors based on electroconductive nanomaterials and polymers. <i>Clinica Chimica Acta</i> , 2021, 516, 111-135.	0.5	20
33	Drug release from ion-exchange microspheres: Mathematical modeling and experimental verification. <i>Biomaterials</i> , 2008, 29, 1654-1663.	5.7	19
34	Effect of formulation factors on the bioactivity of glucose oxidase encapsulated chitosan- <i>alginate</i> microspheres: In vitro investigation and mathematical model prediction. <i>Chemical Engineering Science</i> , 2015, 125, 4-12.	1.9	19
35	Stochastic Modeling of Degradation Behavior of Hydrogels. <i>Macromolecules</i> , 2018, 51, 3941-3952.	2.2	16
36	Serological assays and host antibody detection in coronavirus-related disease diagnosis. <i>Archives of Virology</i> , 2021, 166, 715-731.	0.9	15

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37	Combined UV-C/H ₂ O ₂ -VUV processes for the treatment of an actual slaughterhouse wastewater. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2017, 52, 314-325.	0.7	14
38	Enzymatically crosslinked hyaluronic acid microgels as a vehicle for sustained delivery of cationic proteins. <i>European Polymer Journal</i> , 2019, 115, 234-243.	2.6	13
39	A hybrid scaffold of gelatin glycosaminoglycan matrix and fibrin as a carrier of human corneal fibroblast cells. <i>Materials Science and Engineering C</i> , 2021, 118, 111430.	3.8	13
40	Design of an effective piezoelectric microcantilever biosensor for rapid detection of COVID-19. <i>Journal of Medical Engineering and Technology</i> , 2021, 45, 423-433.	0.8	13
41	The effects of reaction conditions on block copolymerization of chitosan and poly(ethylene glycol). <i>Carbohydrate Polymers</i> , 2010, 81, 799-804.	5.1	12
42	Thermodynamic Properties of Aqueous Glucose-Urea Salt Systems. <i>Journal of Solution Chemistry</i> , 2014, 43, 1110-1131.	0.6	12
43	Facilitation of transscleral drug delivery by drug loaded magnetic polymeric particles. <i>Materials Science and Engineering C</i> , 2017, 79, 812-820.	3.8	10
44	Smart liposomal drug delivery for treatment of oxidative stress model in human embryonic stem cell-derived retinal pigment epithelial cells. <i>International Journal of Pharmaceutics</i> , 2018, 548, 62-72.	2.6	9
45	Development and in vitro evaluation of photocurable GelMA/PEGDA hybrid hydrogel for corneal stromal cells delivery. <i>Materials Today Communications</i> , 2021, 27, 102459.	0.9	9
46	Agitation increases expansion of cord blood hematopoietic cells and promotes their differentiation into myeloid lineage. <i>Cytotechnology</i> , 2016, 68, 969-978.	0.7	8
47	Efficient Computational Design of a Scaffold for Cartilage Cell Regeneration. <i>Bioengineering</i> , 2018, 5, 33.	1.6	8
48	Characterization of novel soybean oil-based thermosensitive amphiphilic polymers for drug delivery applications. <i>Polymer International</i> , 2012, 61, 1477-1484.	1.6	7
49	Dual-Diffusivity Stochastic Model for Macromolecule Release from a Hydrogel. <i>ACS Applied Bio Materials</i> , 2020, 3, 4208-4219.	2.3	7
50	Diffusional release of a solute from a rectangular polymer reservoir into a finite external volume. <i>Journal of Membrane Science</i> , 2000, 174, 81-86.	4.1	6
51	Diffusional Release of a Solute from a Spherical Reservoir Into a Finite External Volume. <i>Journal of Pharmaceutical Sciences</i> , 2002, 91, 1803-1809.	1.6	6
52	Activity Coefficient Prediction for Binary and Ternary Aqueous Electrolyte Solutions at Different Temperatures and Concentrations. <i>Journal of Solution Chemistry</i> , 2012, 41, 75-88.	0.6	4
53	Diffusional release of a dispersed solute from a cylindrical polymeric matrix into an infinite external volume. <i>Applied Mathematics and Computation</i> , 2015, 259, 676-685.	1.4	2
54	Geometry optimization of a fibrous scaffold based on mathematical modelling and CFD simulation of a dynamic cell culture. <i>Computer Aided Chemical Engineering</i> , 2016, , 1413-1418.	0.3	2

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55	Synthesis of Hyaluronic acid-Tyramine Microgels for Sustained Protein Release. , 2018, , .		1
56	Response to Critique by Feng Zheng. Journal of Controlled Release, 1998, 55, 101.	4.8	0
57	Effect of pH along with other variables on physical properties of collagen nanofibers. , 2018, , .		0
58	3D simulation of solutes concentration in urinary concentration mechanism in rat renal medulla. Mathematical Biosciences, 2019, 308, 59-69.	0.9	0
59	Engineered conducting polymer-based scaffolds for cell release and capture. International Journal of Polymeric Materials and Polymeric Biomaterials, 2023, 72, 805-816.	1.8	0