

Mohammad Mahdi Hasani-Sadrabadi

List of Publications by Year in descending order

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84
papers

3,791
citations

81900

39
h-index

133252

59
g-index

89
all docs

89
docs citations

89
times ranked

4692
citing authors

#	ARTICLE	IF	CITATIONS
1	Immunomodulatory microneedle patch for periodontal tissue regeneration. <i>Matter</i> , 2022, 5, 666-682.	10.0	49
2	Engineered Delivery of Dental Stemâ€Cellâ€Derived Extracellular Vesicles for Periodontal Tissue Regeneration. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102593.	7.6	15
3	Biomaterial-based immunoengineering to fight COVID-19 and infectious diseases. <i>Matter</i> , 2021, 4, 1528-1554.	10.0	21
4	Augmenting T-cell responses to tumors by <i>in situ</i> nanomanufacturing. <i>Materials Horizons</i> , 2020, 7, 3028-3033.	12.2	3
5	Drug Delivery: Injectable Drugâ€Releasing Microporous Annealed Particle Scaffolds for Treating Myocardial Infarction (<i>Adv. Funct. Mater.</i> 43/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070289.	14.9	2
6	Injectable Drugâ€Releasing Microporous Annealed Particle Scaffolds for Treating Myocardial Infarction. <i>Advanced Functional Materials</i> , 2020, 30, 2004307.	14.9	57
7	An engineered cell-laden adhesive hydrogel promotes craniofacial bone tissue regeneration in rats. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	199
8	In situ bone tissue engineering using gene delivery nanocomplexes. <i>Acta Biomaterialia</i> , 2020, 108, 326-336.	8.3	41
9	Engineered hydrogels for brain tumor culture and therapy. <i>Bio-Design and Manufacturing</i> , 2020, 3, 203-226.	7.7	24
10	Nano-in-Micro Dual Delivery Platform for Chronic Wound Healing Applications. <i>Micromachines</i> , 2020, 11, 158.	2.9	10
11	T-cell activation is modulated by the 3D mechanical microenvironment. <i>Biomaterials</i> , 2020, 252, 120058.	11.4	60
12	Augmentation of T-Cell Activation by Oscillatory Forces and Engineered Antigen-Presenting Cells. <i>Nano Letters</i> , 2019, 19, 6945-6954.	9.1	32
13	Enhancing cell seeding and osteogenesis of MSCs on 3D printed scaffolds through injectable BMP2 immobilized ECM-Mimetic gel. <i>Dental Materials</i> , 2019, 35, 990-1006.	3.5	48
14	Hierarchically Patterned Polydopamine-Containing Membranes for Periodontal Tissue Engineering. <i>ACS Nano</i> , 2019, 13, 3830-3838.	14.6	105
15	Mechanobiological Mimicry of Helper T Lymphocytes to Evaluate Cellâ€Biomaterials Crosstalk. <i>Advanced Materials</i> , 2018, 30, e1706780.	21.0	22
16	Polyserotonin Nanoparticles as Multifunctional Materials for Biomedical Applications. <i>ACS Nano</i> , 2018, 12, 4761-4774.	14.6	57
17	Cytokine Secreting Microparticles Engineer the Fate and the Effector Functions of Tâ€Cells. <i>Advanced Materials</i> , 2018, 30, 1703178.	21.0	25
18	Engineering natural heart valves: possibilities and challenges. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 1675-1683.	2.7	20

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19	Revisiting structure-property relationship of pH-responsive polymers for drug delivery applications. <i>Journal of Controlled Release</i> , 2017, 253, 46-63.	9.9	231
20	Experimental investigation and molecular dynamics simulation of acid-doped polybenzimidazole as a new membrane for air-breathing microbial fuel cells. <i>Journal of Membrane Science</i> , 2017, 535, 221-229.	8.2	19
21	Synthesis and temperature-induced self-assembly of a positively charged symmetrical pentablock terpolymer in aqueous solutions. <i>European Polymer Journal</i> , 2017, 97, 158-168.	5.4	9
22	Engineered Hydrogels in Cancer Therapy and Diagnosis. <i>Trends in Biotechnology</i> , 2017, 35, 1074-1087.	9.3	136
23	Nanoscale Optoregulation of Neural Stem Cell Differentiation by Intracellular Alteration of Redox Balance. <i>Advanced Functional Materials</i> , 2017, 27, 1701420.	14.9	14
24	High aspect ratio phospho-calcified rock candy-like cellulose nanowhiskers of wastepaper applicable in osteogenic differentiation of hMSCs. <i>Carbohydrate Polymers</i> , 2017, 175, 293-302.	10.2	33
25	Regulation of the fate of dental-derived mesenchymal stem cells using engineered alginate-GelMA hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2957-2967.	4.0	47
26	Hydrogel elasticity and microarchitecture regulate dental-derived mesenchymal stem cell-host immune system cross-talk. <i>Acta Biomaterialia</i> , 2017, 60, 181-189.	8.3	49
27	Magnetic responsive of paclitaxel delivery system based on SPION and palmitoyl chitosan. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 421, 316-325.	2.3	35
28	Morphological and transport characteristics of swollen chitosan-based proton exchange membranes studied by molecular modeling. <i>Biopolymers</i> , 2017, 107, 5-19.	2.4	6
29	Exploring the hydrated microstructure and molecular mobility in blend polyelectrolyte membranes by quantum mechanics and molecular dynamics simulations. <i>RSC Advances</i> , 2016, 6, 35517-35526.	3.6	24
30	Microfluidic Directed Synthesis of Alginate Nanogels with Tunable Pore Size for Efficient Protein Delivery. <i>Langmuir</i> , 2016, 32, 4996-5003.	3.5	97
31	Electromagnetic Fields and Stem Cell Fate: When Physics Meets Biology. <i>Reviews of Physiology, Biochemistry and Pharmacology</i> , 2016, 171, 63-97.	1.6	17
32	Rheological Study and Molecular Dynamics Simulation of Biopolymer Blend Thermogels of Tunable Strength. <i>Biomacromolecules</i> , 2016, 17, 3474-3484.	5.4	18
33	Microfluidic Manipulation of Core/Shell Nanoparticles for Oral Delivery of Chemotherapeutics: A New Treatment Approach for Colorectal Cancer. <i>Advanced Materials</i> , 2016, 28, 4134-4141.	21.0	74
34	Understanding biophysical behaviours of microfluidic-synthesized nanoparticles at nano-biointerface. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 145, 802-811.	5.0	21
35	Novel chitosan-based nanobiohybrid membranes for wound dressing applications. <i>RSC Advances</i> , 2016, 6, 7701-7711.	3.6	56
36	Ionic nanopeapods: Next-generation proton conducting membranes based on phosphotungstic acid filled carbon nanotube. <i>Nano Energy</i> , 2016, 23, 114-121.	16.0	32

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37	The 2015 Joseph W. Richards Summer Research Fellowship – Summary Report: Tuning the Electrochemical Performance of Direct Methanol Fuel Cells (DMFCs) Using Aligned 1D Bionanomaterials. <i>Electrochemical Society Interface</i> , 2015, 24, 72-73.	0.4	0
38	Tumor-derived exosomes-based cancer early detection: a molecular dynamics simulation. , 2015, , .		0
39	Enhanced osteogenic differentiation of stem cells via microfluidics synthesized nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 1809-1819.	3.3	49
40	On-chip synthesis of fine-tuned bone-seeking hybrid nanoparticles. <i>Nanomedicine</i> , 2015, 10, 3431-3449.	3.3	43
41	On-Chip Fabrication of Paclitaxel-Loaded Chitosan Nanoparticles for Cancer Therapeutics. <i>Advanced Functional Materials</i> , 2014, 24, 432-441.	14.9	103
42	Air-breathing microbial fuel cell with enhanced performance using nanocomposite proton exchange membranes. <i>Polymer</i> , 2014, 55, 6102-6109.	3.8	18
43	Cellulose nanowhiskers to regulate the microstructure of perfluorosulfonate ionomers for high-performance fuel cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11334.	10.3	45
44	Magnetically Aligned Nanodomains: Application in High-Performance Ion Conductive Membranes. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7099-7107.	8.0	30
45	Drug Delivery: On-Chip Fabrication of Paclitaxel-Loaded Chitosan Nanoparticles for Cancer Therapeutics (Adv. Funct. Mater. 4/2014). <i>Advanced Functional Materials</i> , 2014, 24, 418-418.	14.9	2
46	Microfluidic-Assisted Self-Assembly of Complex Dendritic Polyethylene Drug Delivery Nanocapsules. <i>Advanced Materials</i> , 2014, 26, 3118-3123.	21.0	49
47	Superacid-doped polybenzimidazole-decorated carbon nanotubes: a novel high-performance proton exchange nanocomposite membrane. <i>Nanoscale</i> , 2013, 5, 11710.	5.6	48
48	Organically modified montmorillonite and chitosan-phosphotungstic acid complex nanocomposites as high performance membranes for fuel cell applications. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 2123-2137.	2.5	27
49	A microfluidic approach to synthesizing high-performance microfibers with tunable anhydrous proton conductivity. <i>Lab on A Chip</i> , 2013, 13, 4549.	6.0	17
50	Nafion®/histidine functionalized carbon nanotube: High-performance fuel cell membranes. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 5894-5902.	7.1	64
51	Investigation of the effects of AMPS-modified nanoclay on fuel cell performance of sulfonated aromatic proton exchange membranes. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 14076-14084.	7.1	24
52	Microfluidic assisted self-assembly of chitosan based nanoparticles as drug delivery agents. <i>Lab on A Chip</i> , 2013, 13, 204-207.	6.0	121
53	Understanding structure and transport characteristics in hydrated sulfonated poly(ether ether) Tj ETQq1 1 0.784314 rgBT /Overlock 10 <i>Journal of Membrane Science</i> , 2013, 429, 384-395.	8.2	37
54	Nafion/chitosan-wrapped CNT nanocomposite membrane for high-performance direct methanol fuel cells. <i>RSC Advances</i> , 2013, 3, 7337.	3.6	52

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55	Investigation of the effects of methanol presence on characteristics of sulfonated aromatic electrolyte membranes: Molecular dynamics simulations. <i>Journal of Power Sources</i> , 2013, 243, 935-945.	7.8	22
56	Nafion-based magnetically aligned nanocomposite proton exchange membranes for direct methanol fuel cells. <i>Solid State Ionics</i> , 2013, 232, 58-67.	2.7	33
57	Nafion/benzotriazole functionalized montmorillonite nanocomposites: novel high-performance proton exchange membranes. <i>RSC Advances</i> , 2013, 3, 19357.	3.6	18
58	Morphological Tuning of Polymeric Nanoparticles via Microfluidic Platform for Fuel Cell Applications. <i>Journal of the American Chemical Society</i> , 2012, 134, 18904-18907.	13.7	55
59	Triple-layer proton exchange membranes based on chitosan biopolymer with reduced methanol crossover for high-performance direct methanol fuel cells application. <i>Polymer</i> , 2012, 53, 2643-2651.	3.8	54
60	Molecular dynamics simulation study of proton diffusion in polymer electrolyte membranes based on sulfonated poly (ether ether ketone). <i>International Journal of Hydrogen Energy</i> , 2012, 37, 10256-10264.	7.1	65
61	Microfluidic synthesis of chitosan-based nanoparticles for fuel cell applications. <i>Chemical Communications</i> , 2012, 48, 7744.	4.1	71
62	Polybenzimidazole-decorated carbon nanotube: A high-performance proton conductor. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012, 6, 318-320.	2.4	16
63	Magnetic field aligned nanocomposite proton exchange membranes based on sulfonated poly (ether ether ketone). <i>International Journal of Hydrogen Energy</i> , 2011, 36, 15323-15332.	7.1	61
64	Photopolymerization of a dental nanocomposite as restorative material using the argon laser. <i>Lasers in Medical Science</i> , 2011, 26, 553-561.	2.1	15
65	Novel nanofiber-based triple-layer proton exchange membranes for fuel cell applications. <i>Journal of Power Sources</i> , 2011, 196, 4599-4603.	7.8	62
66	The effect of isopropanol addition on enhancement of transdermal controlled release of ibuprofen from ethylene vinyl acetate copolymer membranes. <i>Journal of Applied Polymer Science</i> , 2011, 122, 3048-3054.	2.6	14
67	Direct methanol fuel cell performance of sulfonated poly (2,6-dimethyl-1,4-phenylene) ether. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 3688-3696.	7.1	39
68	A high-performance chitosan-based double layer proton exchange membrane with reduced methanol crossover. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 6105-6111.	7.1	35
69	Nanofiber-based polyelectrolytes as novel membranes for fuel cell applications. <i>Journal of Membrane Science</i> , 2011, 368, 233-240.	8.2	128
70	Preparation and characterization of nanocomposite polyelectrolyte membranes based on Nafion® ionomer and nanocrystalline hydroxyapatite. <i>Polymer</i> , 2011, 52, 1286-1296.	3.8	37
71	Nanocomposite Proton Exchange Membranes Based on Sulfonated Poly (2,6-Dimethyl-1,4-Phenylene) ether. <i>Journal of Applied Physics</i> , 2011, 50, 1108-1120.	1.0	6
72	Novel high-performance nanohybrid polyelectrolyte membranes based on bio-functionalized montmorillonite for fuel cell applications. <i>Chemical Communications</i> , 2010, 46, 6500.	4.1	65

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73	Effects of organically modified nanoclay on the transport properties and electrochemical performance of acid-doped polybenzimidazole membranes. <i>Journal of Applied Polymer Science</i> , 2010, 117, 1227-1233.	2.6	20
74	Novel high-performance nanocomposite proton exchange membranes based on poly (ether sulfone). <i>Renewable Energy</i> , 2010, 35, 226-231.	8.9	63
75	Electrochemical investigation of sulfonated poly(ether ether ketone)/clay nanocomposite membranes for moderate temperature fuel cell applications. <i>Journal of Power Sources</i> , 2010, 195, 2450-2456.	7.8	86
76	Novel nanocomposite proton exchange membranes based on Nafion® and AMPS-modified montmorillonite for fuel cell applications. <i>Journal of Membrane Science</i> , 2010, 365, 286-293.	8.2	70
77	Structural modification of chitosan biopolymer as a novel polyelectrolyte membrane for green power generation. <i>Polymers for Advanced Technologies</i> , 2010, 21, 726-734.	3.2	63
78	Nafion/SAS-Modified Clay as a Novel Proton Exchange Nanocomposite Membranes for DMFC Applications. <i>ECS Meeting Abstracts</i> , 2010, , .	0.0	0
79	Investigation the Effect of Chitosan-Modified Montmorillonite Presence on Fuel Cell Performance of Partially Sulfonated Poly(2,6-dimethyl-1,4-Phenylene Oxide) at Elevated Temperatures. <i>ECS Meeting Abstracts</i> , 2010, , .	0.0	0
80	Evaluation of Fuel Cell Performance of Nafion / Molecular Sieves Nanocomposite Membranes. <i>ECS Transactions</i> , 2009, 17, 269-276.	0.5	13
81	Characterization of nanohybrid membranes for direct methanol fuel cell applications. <i>Solid State Ionics</i> , 2009, 180, 1497-1504.	2.7	35
82	Nafion®/bio-functionalized montmorillonite nanohybrids as novel polyelectrolyte membranes for direct methanol fuel cells. <i>Journal of Power Sources</i> , 2009, 190, 318-321.	7.8	67
83	Preparation and characterization of nanocomposite membranes made of poly(2,6-dimethyl-1,4-phenylene oxide) and montmorillonite for direct methanol fuel cells. <i>Journal of Power Sources</i> , 2008, 183, 551-556.	7.8	55
84	Nanocomposite Membranes Made from Sulfonated Poly(ether ether ketone) and Montmorillonite Clay for Fuel Cell Applications. <i>Energy & Fuels</i> , 2008, 22, 2539-2542.	5.1	82