Erfan Dashtimoghadam

List of Publications by Year in descending order

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109321 197818 2,599 68 35 49 citations g-index h-index papers 69 69 69 3237 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Microfluidic assisted self-assembly of chitosan based nanoparticles as drug delivery agents. Lab on A Chip, 2013, 13, 204-207.	6.0	121
2	Onâ€Chip Fabrication of Paclitaxelâ€Loaded Chitosan Nanoparticles for Cancer Therapeutics. Advanced Functional Materials, 2014, 24, 432-441.	14.9	103
3	Microfluidic Directed Synthesis of Alginate Nanogels with Tunable Pore Size for Efficient Protein Delivery. Langmuir, 2016, 32, 4996-5003.	3.5	97
4	Electrochemical investigation of sulfonated poly(ether ether ketone)/clay nanocomposite membranes for moderate temperature fuel cell applications. Journal of Power Sources, 2010, 195, 2450-2456.	7.8	86
5	Microfluidic Manipulation of Core/Shell Nanoparticles for Oral Delivery of Chemotherapeutics: A New Treatment Approach for Colorectal Cancer. Advanced Materials, 2016, 28, 4134-4141.	21.0	74
6	A current overview of materials and strategies for potential use in maxillofacial tissue regeneration. Materials Science and Engineering C, 2017, 70, 913-929.	7.3	71
7	Dextran hydrogels incorporated with bioactive glass-ceramic: Nanocomposite scaffolds for bone tissue engineering. Carbohydrate Polymers, 2018, 190, 281-294.	10.2	71
8	Novel nanocomposite proton exchange membranes based on Nafion \hat{A}^{\otimes} and AMPS-modified montmorillonite for fuel cell applications. Journal of Membrane Science, 2010, 365, 286-293.	8.2	70
9	Investigation of gelation mechanism of an injectable hydrogel based on chitosan by rheological measurements for a drug delivery application. Soft Matter, 2012, 8, 7128.	2.7	70
10	Microfluidic self-assembly of polymeric nanoparticles with tunable compactness for controlled drug delivery. Polymer, 2013, 54, 4972-4979.	3.8	70
11	Nafion $\hat{A}^{@}/$ bio-functionalized montmorillonite nanohybrids as novel polyelectrolyte membranes for direct methanol fuel cells. Journal of Power Sources, 2009, 190, 318-321.	7.8	67
12	Molecular dynamics simulation study of proton diffusion in polymer electrolyte membranes based on sulfonated poly (ether ether ketone). International Journal of Hydrogen Energy, 2012, 37, 10256-10264.	7.1	65
13	Novel high-performance nanocomposite proton exchange membranes based on poly (ether sulfone). Renewable Energy, 2010, 35, 226-231.	8.9	63
14	Structural modification of chitosan biopolymer as a novel polyelectrolyte membrane for green power generation. Polymers for Advanced Technologies, 2010, 21, 726-734.	3.2	63
15	Novel chitosan-based nanobiohybrid membranes for wound dressing applications. RSC Advances, 2016, 6, 7701-7711.	3.6	56
16	Bottlebrush Bridge between Soft Gels and Firm Tissues. ACS Central Science, 2020, 6, 413-419.	11.3	56
17	Morphological Tuning of Polymeric Nanoparticles via Microfluidic Platform for Fuel Cell Applications. Journal of the American Chemical Society, 2012, 134, 18904-18907.	13.7	55
18	Triple-layer proton exchange membranes based on chitosan biopolymer with reduced methanol crossover for high-performance direct methanol fuel cells application. Polymer, 2012, 53, 2643-2651.	3.8	54

#	Article	IF	CITATIONS
19	Injectable bottlebrush hydrogels with tissue-mimetic mechanical properties. Science Advances, 2022, 8, eabm2469.	10.3	53
20	Nafion/chitosan-wrapped CNT nanocomposite membrane for high-performance direct methanol fuel cells. RSC Advances, 2013, 3, 7337.	3.6	52
21	Microfluidicâ€Assisted Selfâ€Assembly of Complex Dendritic Polyethylene Drug Delivery Nanocapsules. Advanced Materials, 2014, 26, 3118-3123.	21.0	49
22	Enhanced osteogenic differentiation of stem cells via microfluidics synthesized nanoparticles. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 1809-1819.	3.3	49
23	Immunomodulatory microneedle patch for periodontal tissue regeneration. Matter, 2022, 5, 666-682.	10.0	49
24	Superacid-doped polybenzimidazole-decorated carbon nanotubes: a novel high-performance proton exchange nanocomposite membrane. Nanoscale, 2013, 5, 11710.	5.6	48
25	Enhancing cell seeding and osteogenesis of MSCs on 3D printed scaffolds through injectable BMP2 immobilized ECM-Mimetic gel. Dental Materials, 2019, 35, 990-1006.	3.5	48
26	Simulation of cortico-cancellous bone structure by 3D printing of bilayer calcium phosphate-based scaffolds. Bioprinting, 2017, 6, 1-7.	5.8	46
27	Fabrication and characterization of dextran/nanocrystalline \hat{l}^2 -tricalcium phosphate nanocomposite hydrogel scaffolds. International Journal of Biological Macromolecules, 2020, 148, 434-448.	7.5	46
28	Cellulose nanowhiskers to regulate the microstructure of perfluorosulfonate ionomers for high-performance fuel cells. Journal of Materials Chemistry A, 2014, 2, 11334.	10.3	45
29	3D printed tissue engineered model for bone invasion of oral cancer. Tissue and Cell, 2018, 52, 71-77.	2.2	43
30	Effects of chain length of the cross-linking agent on rheological and swelling characteristics of dextran hydrogels. Carbohydrate Polymers, 2018, 181, 141-149.	10.2	43
31	In situ bone tissue engineering using gene delivery nanocomplexes. Acta Biomaterialia, 2020, 108, 326-336.	8.3	41
32	Direct methanol fuel cell performance of sulfonated poly (2,6-dimethyl-1,4-phenylene) Tj ETQq0 0 0 rgBT /Overlock	k 10 Tf 50 7.1) 227 Td (oxid 39
33	Preparation and characterization of nanocomposite polyelectrolyte membranes based on Nafion \hat{A}^{\otimes} ionomer and nanocrystalline hydroxyapatite. Polymer, 2011, 52, 1286-1296.	3.8	37
34	Characterization of nanohybrid membranes for direct methanol fuel cell applications. Solid State lonics, 2009, 180, 1497-1504.	2.7	35
35	A high-performance chitosan-based double layer proton exchange membrane with reduced methanol crossover. International Journal of Hydrogen Energy, 2011, 36, 6105-6111.	7.1	35
36	lonic nanopeapods: Next-generation proton conducting membranes based on phosphotungstic acid filled carbon nanotube. Nano Energy, 2016, 23, 114-121.	16.0	32

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37	Injectable non-leaching tissue-mimetic bottlebrush elastomers as an advanced platform for reconstructive surgery. Nature Communications, 2021, 12, 3961.	12.8	32
38	Magnetically Aligned Nanodomains: Application in High-Performance Ion Conductive Membranes. ACS Applied Materials & Samp; Interfaces, 2014, 6, 7099-7107.	8.0	30
39	Nonlinear Elasticity and Swelling of Comb and Bottlebrush Networks. Macromolecules, 2019, 52, 5095-5101.	4.8	29
40	Organically modified montmorillonite and chitosan–phosphotungstic acid complex nanocomposites as high performance membranes for fuel cell applications. Journal of Solid State Electrochemistry, 2013, 17, 2123-2137.	2.5	27
41	Tissueâ€Adaptive Materials with Independently Regulated Modulus and Transition Temperature. Advanced Materials, 2020, 32, e2005314.	21.0	27
42	Collagenous matrix supported by a 3D-printed scaffold for osteogenic differentiation of dental pulp cells. Dental Materials, 2018, 34, 209-220.	3.5	26
43	Understanding biophysical behaviours of microfluidic-synthesized nanoparticles at nano-biointerface. Colloids and Surfaces B: Biointerfaces, 2016, 145, 802-811.	5.0	21
44	Nanomagnetic-mediated drug delivery for the treatment of dental disease. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 919-927.	3.3	21
45	Effects of organically modified nanoclay on the transport properties and electrochemical performance of acidâ€doped polybenzimidazole membranes. Journal of Applied Polymer Science, 2010, 117, 1227-1233.	2.6	20
46	Thermoresponsive biopolymer hydrogels with tunable gel characteristics. RSC Advances, 2014, 4, 39386-39393.	3.6	19
47	Experimental investigation and molecular dynamics simulation of acid-doped polybenzimidazole as a new membrane for air-breathing microbial fuel cells. Journal of Membrane Science, 2017, 535, 221-229.	8.2	19
48	Tissue-Mimetic Dielectric Actuators: Free-Standing, Stable, and Solvent-Free. ACS Applied Polymer Materials, 2020, 2, 1741-1745.	4.4	19
49	Air-breathing microbial fuel cell with enhanced performance using nanocomposite proton exchange membranes. Polymer, 2014, 55, 6102-6109.	3.8	18
50	Rheological Study and Molecular Dynamics Simulation of Biopolymer Blend Thermogels of Tunable Strength. Biomacromolecules, 2016, 17, 3474-3484.	5.4	18
51	A microfluidic approach to synthesizing high-performance microfibers with tunable anhydrous proton conductivity. Lab on A Chip, 2013, 13, 4549.	6.0	17
52	Brush Architecture and Network Elasticity: Path to the Design of Mechanically Diverse Elastomers. Macromolecules, 2022, 55, 2940-2951.	4.8	16
53	Engineered Delivery of Dental Stemâ€Cellâ€Derived Extracellular Vesicles for Periodontal Tissue Regeneration. Advanced Healthcare Materials, 2022, 11, e2102593.	7.6	15
54	Ultraviolet-induced surface grafting of octafluoropentyl methacrylate on polyether ether ketone for inducing antibiofilm properties. Journal of Biomaterials Applications, 2017, 32, 3-11.	2.4	14

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55	Nanoscale Optoregulation of Neural Stem Cell Differentiation by Intracellular Alteration of Redox Balance. Advanced Functional Materials, 2017, 27, 1701420.	14.9	14
56	Comparison of osteogenic differentiation potential of induced pluripotent stem cells and buccal fat pad stem cells on 3D-printed HA/ \hat{l}^2 -TCP collagen-coated scaffolds. Cell and Tissue Research, 2021, 384, 403-421.	2.9	13
57	Oscillatory rheometric tracing of dextran crosslinking reaction in aqueous semidilute solutions – Effects of formulation on the gelation properties. Polymer, 2013, 54, 2999-3007.	3.8	12
58	Osteogenic differentiation of adipose-derived mesenchymal stem cells using 3D-Printed PDLLA/ \hat{I}^2 -TCP nanocomposite scaffolds. Bioprinting, 2021, 21, e00117.	5.8	10
59	Mechanically Diverse Gels with Equal Solvent Content. ACS Central Science, 2022, 8, 845-852.	11.3	10
60	Wrapping carbon nanotubes by biopolymer chains: Role of nanointerfaces in detection of vapors in conductive polymer composite transducers. Polymer Composites, 2016, 37, 2803-2810.	4.6	9
61	Synthesis and temperature-induced self-assembly of a positively charged symmetrical pentablock terpolymer in aqueous solutions. European Polymer Journal, 2017, 97, 158-168.	5.4	9
62	Critical-sized bone defects regeneration using a bone-inspired 3D bilayer collagen membrane in combination with leukocyte and platelet-rich fibrin membrane (L-PRF): An in vivo study. Tissue and Cell, 2020, 63, 101326.	2.2	7
63	Regulating Tissue-Mimetic Mechanical Properties of Bottlebrush Elastomers by Magnetic Field. ACS Applied Materials & Samp; Interfaces, 2021, 13, 38783-38791.	8.0	6
64	Tunable viscoelastic features of aqueous mixtures of thermosensitive ethyl(hydroxyethyl)cellulose and cellulose nanowhiskers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 590, 124489.	4.7	6
65	Vibrational and sonochemical characterization of ultrasonic endodontic activating devices for translation to clinical efficacy. Materials Science and Engineering C, 2020, 109, 110646.	7. 3	5
66	Nanoscale Membrane Based on Filled Nanoporous Anodic Alumina with Proton-conducting Polymer for Fuel Cell Applications: Primary Morphological Evaluation. ECS Transactions, 2009, 25, 1085-1090.	0.5	3
67	On-chip detection of gel transition temperature using a novel micro-thermomechanical method. PLoS ONE, 2017, 12, e0183492.	2.5	3
68	Drug Delivery: Onâ€Chip Fabrication of Paclitaxelâ€Loaded Chitosan Nanoparticles for Cancer Therapeutics (Adv. Funct. Mater. 4/2014). Advanced Functional Materials, 2014, 24, 418-418.	14.9	2