

# Amir Sheikhi

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

2,753  
citations

257450

24  
h-index

182427

51  
g-index

66  
all docs

66  
docs citations

66  
times ranked

3915  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gelatinâ€polysaccharide composite scaffolds for 3D cell culture and tissue engineering: Towards natural therapeutics. <i>Bioengineering and Translational Medicine</i> , 2019, 4, 96-115.	7.1	249
2	Sutureless repair of corneal injuries using naturally derived bioadhesive hydrogels. <i>Science Advances</i> , 2019, 5, eaav1281.	10.3	229
3	Advancing Frontiers in Bone Bioprinting. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801048.	7.6	164
4	Status and future scope of plant-based green hydrogels in biomedical engineering. <i>Applied Materials Today</i> , 2019, 16, 213-246.	4.3	154
5	3D-Printed Ultra-Robust Surface-Doped Porous Silicone Sensors for Wearable Biomonitoring. <i>ACS Nano</i> , 2020, 14, 1520-1532.	14.6	151
6	Reusable Green Aerogels from Cross-Linked Hairy Nanocrystalline Cellulose and Modified Chitosan for Dye Removal. <i>Langmuir</i> , 2016, 32, 11771-11779.	3.5	145
7	Structural analysis of photocrosslinkable methacryloyl-modified protein derivatives. <i>Biomaterials</i> , 2017, 139, 163-171.	11.4	140
8	Microfluidic-enabled bottom-up hydrogels from annealable naturally-derived protein microbeads. <i>Biomaterials</i> , 2019, 192, 560-568.	11.4	116
9	Minimally Invasive and Regenerative Therapeutics. <i>Advanced Materials</i> , 2019, 31, e1804041.	21.0	112
10	Hairy cellulose nanocrystalloids: a novel class of nanocellulose. <i>Nanoscale</i> , 2016, 8, 15101-15114.	5.6	111
11	Copper Removal Using Electrosterically Stabilized Nanocrystalline Cellulose. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 11301-11308.	8.0	106
12	Effect of ionic strength on shear-thinning nanoclayâ€polymer composite hydrogels. <i>Biomaterials Science</i> , 2018, 6, 2073-2083.	5.4	89
13	Recent advances in nanoengineering cellulose for cargo delivery. <i>Journal of Controlled Release</i> , 2019, 294, 53-76.	9.9	87
14	Engineering Tough, Injectable, Naturally Derived, Bioadhesive Composite Hydrogels. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901722.	7.6	78
15	Direct-write 3D printing and characterization of a GelMA-based biomaterial for intracorporeal tissue engineering. <i>Biofabrication</i> , 2020, 12, 045006.	7.1	63
16	Advances in bioactive glass-containing injectable hydrogel biomaterials for tissue regeneration. <i>Acta Biomaterialia</i> , 2021, 136, 1-36.	8.3	61
17	In Vivo Printing of Nanoenabled Scaffolds for the Treatment of Skeletal Muscle Injuries. <i>Advanced Healthcare Materials</i> , 2021, 10, e2002152.	7.6	59
18	Colloidal aspects of Janus-like hairy cellulose nanocrystalloids. <i>Current Opinion in Colloid and Interface Science</i> , 2017, 29, 21-31.	7.4	45

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19	Electroacoustic characterization of conventional and electrosterically stabilized nanocrystalline celluloses. <i>Journal of Colloid and Interface Science</i> , 2014, 432, 151-157.	9.4	44
20	Anti-IL-6 eluting immunomodulatory biomaterials prolong skin allograft survival. <i>Scientific Reports</i> , 2019, 9, 6535.	3.3	39
21	In situ forming microporous gelatin methacryloyl hydrogel scaffolds from thermostable microgels for tissue engineering. <i>Bioengineering and Translational Medicine</i> , 2020, 5, e10180.	7.1	33
22	Nanoengineered Shear-Thinning Hydrogel Barrier for Preventing Postoperative Abdominal Adhesions. <i>Nano-Micro Letters</i> , 2021, 13, 212.	27.0	28
23	Colloidal Starch and Cellulose Nanocrystals Unite To Improve the Mechanical Properties of Paper: From Enhanced Coatings to Reinforced Nanocomposites. <i>ACS Applied Nano Materials</i> , 2018, 1, 1841-1852.	5.0	25
24	Synthesis of Injectable Shear-Thinning Biomaterials of Various Compositions of Gelatin and Synthetic Silicate Nanoplatelet. <i>Biotechnology Journal</i> , 2020, 15, e1900456.	3.5	25
25	Sequential-Based Process Modeling of Natural Gas Combustion in a Fluidized Bed Reactor. <i>Energy &amp; Fuels</i> , 2012, 26, 2058-2067.	5.1	23
26	Macromolecule-based platforms for developing tailor-made formulations for scale inhibition. <i>Environmental Science: Water Research and Technology</i> , 2016, 2, 71-84.	2.4	23
27	Modular microporous hydrogels formed from microgel beads with orthogonal thermo-chemical responsivity: Microfluidic fabrication and characterization. <i>MethodsX</i> , 2019, 6, 1747-1752.	1.6	23
28	Design and Synthesis of Dendrimers with Facile Surface Group Functionalization, and an Evaluation of Their Bactericidal Efficacy. <i>Molecules</i> , 2017, 22, 868.	3.8	19
29	A Readily Scalable, Clinically Demonstrated, Antibiofouling Zwitterionic Surface Treatment for Implantable Medical Devices. <i>Advanced Materials</i> , 2022, 34, e2200254.	21.0	18
30	Frequency-based characterization of liquid-solid fluidized bed hydrodynamics using the analysis of vibration signature and pressure fluctuations. <i>Powder Technology</i> , 2013, 235, 787-796.	4.2	17
31	Highly Stable, Functional Hairy Nanoparticles and Biopolymers from Wood Fibers: Towards Sustainable Nanotechnology. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	16
32	A Leaf out of Nature's Book: Hairy Nanocelluloses for Bioinspired Mineralization. <i>Crystal Growth and Design</i> , 2016, 16, 4627-4634.	3.0	16
33	Emerging Cellulose-Based Nanomaterials and Nanocomposites. , 2019, , 307-351.		16
34	Sequential Modeling of Coal Volatile Combustion in Fluidized Bed Reactors. <i>Energy &amp; Fuels</i> , 2012, 26, 5199-5209.	5.1	15
35	Nanoengineering colloidal and polymeric celluloses for threshold scale inhibition: towards universal biomass-based crystal modification. <i>Materials Horizons</i> , 2018, 5, 248-255.	12.2	15
36	Nanoengineering cellulose for the selective removal of neodymium: Towards sustainable rare earth element recovery. <i>Chemical Engineering Journal</i> , 2022, 428, 131086.	12.7	15

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37	Hydrodynamic characterisation of liquid–solid two–phase fluidised beds: Vibration signature and pressure fluctuations analyses. <i>Canadian Journal of Chemical Engineering</i> , 2012, 90, 1646-1653.	1.7	14
38	Understanding bubble hydrodynamics in bubble columns. <i>Experimental Thermal and Fluid Science</i> , 2013, 45, 63-74.	2.7	14
39	Sequential modular simulation of ethanol production in a three-phase fluidized bed bioreactor. <i>Biochemical Engineering Journal</i> , 2012, 63, 95-103.	3.6	13
40	Experimental investigation on the hydrodynamics of a gas–liquid–solid fluidized bed using vibration signature and pressure fluctuation analyses. <i>International Journal of Heat and Fluid Flow</i> , 2013, 42, 190-199.	2.4	13
41	Sequence-based Process Modeling of Fluidized Bed Biomass Gasification. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2640-2651.	6.7	13
42	Hydrodynamics and mass transfer performance of rotating sieved disc contactors used for reversed micellar extraction of protein. <i>Chemical Engineering Science</i> , 2009, 64, 2301-2306.	3.8	12
43	Biomimetic scale-resistant polymer nanocomposites: towards universal additive-free scale inhibition. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10189-10195.	10.3	11
44	On the flow direction effect in sequential modular simulations: A case study on fluidized bed biomass gasifiers. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 2552-2567.	7.1	8
45	Trapping It Softly: Ultrasoft Zirconium Metallogels for Macromolecule Entrapment and Reconfiguration. <i>ACS Macro Letters</i> , 2016, 5, 904-908.	4.8	8
46	Three-dimensionally printable shear-thinning triblock copolypeptide hydrogels with antimicrobial potency. <i>Biomaterials Science</i> , 2021, 9, 5144-5149.	5.4	8
47	Hydrogel–colloid interfacial interactions: a study of tailored adhesion using optical tweezers. <i>Soft Matter</i> , 2016, 12, 6575-6587.	2.7	7
48	Squishy nanotraps: hybrid cellulose nanocrystal-zirconium metallogels for controlled trapping of biomacromolecules. <i>Chemical Communications</i> , 2017, 53, 8747-8750.	4.1	7
49	Overcoming Interfacial Scaling Using Engineered Nanocelluloses: A QCM-D Study. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 34553-34560.	8.0	7
50	Rational design of molecularly engineered biomimetic threshold scale inhibitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24058-24065.	10.3	6
51	Biomimetic dendrimers for mineralization: rare fibrous amorphous calcium carbonate (ACC) and branch-and-bud ACC–vaterite polymorphs. <i>Materials Chemistry Frontiers</i> , 2018, 2, 2081-2090.	5.9	6
52	Engineering hairy cellulose nanocrystals for chemotherapy drug capture. <i>Materials Today Chemistry</i> , 2022, 23, 100711.	3.5	6
53	Colloidal nano-toolbox for molecularly regulated polymerization: chemorheology over 6 decades of viscoelasticity. <i>Materials Horizons</i> , 2017, 4, 1165-1170.	12.2	5
54	Microengineered Emulsion-to-Powder Technology for the High-Fidelity Preservation of Molecular, Colloidal, and Bulk Properties of Hydrogel Suspensions. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1935-1941.	4.4	5

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55	Highly functional bio-based micro- and nano-structured materials for neodymium recovery. Chemical Engineering Journal, 2022, 447, 137418.	12.7	4
56	Exploring the role of green and blue infrastructure in reducing temperature in Iskandar Malaysia using remote sensing approach. IOP Conference Series: Earth and Environmental Science, 2014, 18, 012156.	0.3	3
57	Bone Bioprinting: Advancing Frontiers in Bone Bioprinting (Adv. Healthcare Mater. 7/2019). Advanced Healthcare Materials, 2019, 8, 1970030.	7.6	3
58	Assessing the aneurysm occlusion efficacy of a shear-thinning biomaterial in a 3D-printed model. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 130, 105156.	3.1	3
59	Effect of land cover and green space on land surface temperature of a fast growing economic region in Malaysia. , 2015, , .		2
60	Hall of Fame Article: Minimally Invasive and Regenerative Therapeutics (Adv. Mater. 1/2019). Advanced Materials, 2019, 31, 1970005.	21.0	2
61	Sequential modular simulation of circulating fluidized bed reactors. Canadian Journal of Chemical Engineering, 2020, 98, 1003-1016.	1.7	2
62	Sequential-based process modelling of a circulating fluidized bed reactor. Computer Aided Chemical Engineering, 2017, 40, 109-114.	0.5	1
63	A Readily Scalable, Clinically Demonstrated, Antibiofouling Zwitterionic Surface Treatment for Implantable Medical Devices (Adv. Mater. 20/2022). Advanced Materials, 2022, 34, .	21.0	1
64	More than my publications. Science, 2018, 362, 118-118.	12.6	0