

Alireza Dolatshahi-Pirouz

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

5,046
citations

81434

41
h-index

104191

69
g-index

91
all docs

91
docs citations

91
times ranked

8784
citing authors

#	ARTICLE	IF	CITATIONS
1	Electroconductive biomaterials for cardiac tissue engineering. <i>Acta Biomaterialia</i> , 2022, 139, 118-140.	4.1	61
2	Injectable and adhesive hydrogels for dealing with wounds. <i>Expert Opinion on Biological Therapy</i> , 2022, 22, 519-533.	1.4	13
3	Bioinspired gelatin/bioceramic composites loaded with bone morphogenetic protein-2 (BMP-2) promote osteoporotic bone repair. <i>Materials Science and Engineering C</i> , 2022, 134, 112539.	3.8	13
4	The 3D Bioprinted Scaffolds for Wound Healing. <i>Pharmaceutics</i> , 2022, 14, 464.	2.0	35
5	Electrospun Silk Fibroin/kappa-Carrageenan Hybrid Nanofibers with Enhanced Osteogenic Properties for Bone Regeneration Applications. <i>Biology</i> , 2022, 11, 751.	1.3	14
6	Progress in Gelatin as Biomaterial for Tissue Engineering. <i>Pharmaceutics</i> , 2022, 14, 1177.	2.0	63
7	Nanoclay-reinforced HA/alginate scaffolds as cell carriers and SDF-1 delivery-platforms for bone tissue engineering. <i>International Journal of Pharmaceutics</i> , 2022, 623, 121895.	2.6	4
8	Combinatorial fluorapatite-based scaffolds substituted with strontium, magnesium and silicon ions for mending bone defects. <i>Materials Science and Engineering C</i> , 2021, 120, 111611.	3.8	20
9	Imaging therapeutic peptide transport across intestinal barriers. <i>RSC Chemical Biology</i> , 2021, 2, 1115-1143.	2.0	10
10	Design and construction of a novel measurement device for mechanical characterization of hydrogels: A case study. <i>PLoS ONE</i> , 2021, 16, e0247727.	1.1	6
11	Soft Electronic Materials with Combinatorial Properties Generated via Mussel-Inspired Chemistry and Halloysite Nanotube Reinforcement. <i>ACS Nano</i> , 2021, 15, 9531-9549.	7.3	46
12	Oxygen releasing hydrogels for beta cell assisted therapy. <i>International Journal of Pharmaceutics</i> , 2021, 602, 120595.	2.6	9
13	Nanoclay Reinforced Biomaterials for Mending Musculoskeletal Tissue Disorders. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100217.	3.9	23
14	The Manufacture of Unbreakable Bionics via Multifunctional and Self-Healing Silk-Graphene Hydrogels. <i>Advanced Materials</i> , 2021, 33, e2100047.	11.1	87
15	A self assembled dextran-stearic acid-spermine nanocarrier for delivery of rapamycin as a hydrophobic drug. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 66, 102768.	1.4	5
16	Rheological characterization of 3D printable geopolymers. <i>Cement and Concrete Research</i> , 2021, 147, 106498.	4.6	35
17	3D-Printed Regenerative Magnesium Phosphate Implant Ensures Stability and Restoration of Hip Dysplasia. <i>Advanced Healthcare Materials</i> , 2021, 10, e2101051.	3.9	15
18	AIE-featured tetraphenylethylene nanoarchitectures in biomedical application: Bioimaging, drug delivery and disease treatment. <i>Coordination Chemistry Reviews</i> , 2021, 447, 214135.	9.5	59

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19	Injectable Hydrogels for Improving Cardiac Cell Therapyâ€”In Vivo Evidence and Translational Challenges. <i>Gels</i> , 2021, 7, 7.	2.1	24
20	Dual-Material 3D-Printed Intestinal Model Devices with Integrated Villi-like Scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 58434-58446.	4.0	14
21	The fate of mesenchymal stem cells is greatly influenced by the surface chemistry of silica nanoparticles in 3D hydrogel-based culture systems. <i>Materials Science and Engineering C</i> , 2020, 106, 110259.	3.8	17
22	A New Era for Cyborg Science Is Emerging: The Promise of Cyborganic Beings. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901023.	3.9	11
23	Tough magnesium phosphate-based 3D-printed implants induce bone regeneration in an equine defect model. <i>Biomaterials</i> , 2020, 261, 120302.	5.7	87
24	Flexible and Green Electronics Manufactured by Origami Folding of Nanosilicate-Reinforced Cellulose Paper. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48027-48039.	4.0	24
25	A self-healable, moldable and bioactive biomaterial gum for personalised and wearable drug delivery. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4340-4356.	2.9	7
26	Hacking Human Beings with Machine Biology to Increase Lifespan. <i>Trends in Biotechnology</i> , 2020, 38, 1312-1315.	4.9	0
27	Cell-laden alginate hydrogels for the treatment of diabetes. <i>Expert Opinion on Drug Delivery</i> , 2020, 17, 1113-1118.	2.4	9
28	An innovative and eco-friendly modality for synthesis of highly fluorinated graphene by an acidic ionic liquid: Making of an efficacious vehicle for anti-cancer drug delivery. <i>Applied Surface Science</i> , 2020, 515, 146071.	3.1	35
29	Induced cell migration based on a bioactive hydrogel sheet combined with a perfused microfluidic system. <i>Biomedical Materials (Bristol)</i> , 2020, 15, 045010.	1.7	3
30	Hyaluronic Acid (HA)â€”Based Silk Fibroin/Zinc Oxide Coreâ€”Shell Electrospun Dressing for Burn Wound Management. <i>Macromolecular Bioscience</i> , 2020, 20, e1900328.	2.1	110
31	Facile Method for Fabrication of Meter-Long Multifunctional Hydrogel Fibers with Controllable Biophysical and Biochemical Features. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9080-9089.	4.0	40
32	In vitro disease and organ model. , 2020, , 629-668.		0
33	Advances in cell-laden hydrogels for delivering therapeutics. <i>Expert Opinion on Biological Therapy</i> , 2019, 19, 1219-1222.	1.4	3
34	Self-Healable Hydrogels: Self-Healing Hydrogels: The Next Paradigm Shift in Tissue Engineering? (Adv.) <i>TJ ETQq0,0,0 rgBT /Overlock 1</i>	5.6	0
35	Silica nanoparticle surface chemistry: An important trait affecting cellular biocompatibility in two and three dimensional culture systems. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 182, 110353.	2.5	18
36	Can 4D bioprinting revolutionize drug development?. <i>Expert Opinion on Drug Discovery</i> , 2019, 14, 953-956.	2.5	22

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37	Self-Healing Hydrogels: The Next Paradigm Shift in Tissue Engineering?. <i>Advanced Science</i> , 2019, 6, 1801664.	5.6	314
38	Sulfated polysaccharide-based scaffolds for orthopaedic tissue engineering. <i>Biomaterials</i> , 2019, 214, 119214.	5.7	92
39	Recent advances in gelatin-based therapeutics. <i>Expert Opinion on Biological Therapy</i> , 2019, 19, 773-779.	1.4	85
40	Enzymatic crosslinked gelatin 3D scaffolds for bone tissue engineering. <i>International Journal of Pharmaceutics</i> , 2019, 562, 151-161.	2.6	46
41	Pectin Methacrylate (PEMA) and Gelatin-Based Hydrogels for Cell Delivery: Converting Waste Materials into Biomaterials. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12283-12297.	4.0	61
42	3D-printed bioactive scaffolds from nanosilicates and PEOT/PBT for bone tissue engineering. <i>International Journal of Energy Production and Management</i> , 2019, 6, 29-37.	1.9	30
43	Combating Microbial Contamination with Robust Polymeric Nanofibers: Elemental Effect on the Mussel-Inspired Cross-Linking of Electrospun Gelatin. <i>ACS Applied Bio Materials</i> , 2019, 2, 807-823.	2.3	13
44	A Protein-Based, Water-Insoluble, and Bendable Polymer with Ionic Conductivity: A Roadmap for Flexible and Green Electronics. <i>Advanced Science</i> , 2019, 6, 1801241.	5.6	34
45	3D cell-laden polymers to release bioactive products in the eye. <i>Progress in Retinal and Eye Research</i> , 2019, 68, 67-82.	7.3	15
46	Nanoengineered biomaterials for cardiac regeneration. , 2019, , 95-124.		4
47	Stability and Antimicrobial Activity of Nisin-Loaded Mesoporous Silica Nanoparticles: A Game-Changer in the War against Maleficent Microbes. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 4233-4243.	2.4	31
48	Self-assembled amphiphilic-dextran nanomicelles for delivery of rapamycin. <i>Journal of Drug Delivery Science and Technology</i> , 2018, 44, 333-341.	1.4	25
49	Flexible Bioelectronics: Blending Electronics with the Human Body: A Pathway toward a Cybernetic Future (<i>Adv. Sci.</i> 10/2018). <i>Advanced Science</i> , 2018, 5, 1870059.	5.6	1
50	Blending Electronics with the Human Body: A Pathway toward a Cybernetic Future. <i>Advanced Science</i> , 2018, 5, 1700931.	5.6	83
51	Combinatorial Screening of Nanoclay-Reinforced Hydrogels: A Glimpse of the "Holy Grail" in Orthopedic Stem Cell Therapy?. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34924-34941.	4.0	54
52	Biopolymers for Antitumor Implantable Drug Delivery Systems: Recent Advances and Future Outlook. <i>Advanced Materials</i> , 2018, 30, e1706665.	11.1	147
53	Advances in stem cell therapy for cartilage regeneration in osteoarthritis. <i>Expert Opinion on Biological Therapy</i> , 2018, 18, 883-896.	1.4	21
54	Experimental study on heat transfer augmentation of graphene based ferrofluids in presence of magnetic field. <i>Applied Thermal Engineering</i> , 2017, 114, 415-427.	3.0	56

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55	Bioprinting technologies for disease modeling. <i>Biotechnology Letters</i> , 2017, 39, 1279-1290.	1.1	53
56	Emerging Biofabrication Strategies for Engineering Complex Tissue Constructs. <i>Advanced Materials</i> , 2017, 29, 1606061.	11.1	307
57	Nanoreinforced Hydrogels for Tissue Engineering: Biomaterials that are Compatible with Load-Bearing and Electroactive Tissues. <i>Advanced Materials</i> , 2017, 29, 1603612.	11.1	261
58	3D Biomaterial Microarrays for Regenerative Medicine: Current State-of-the-Art, Emerging Directions and Future Trends. <i>Advanced Materials</i> , 2016, 28, 771-781.	11.1	80
59	Injectable shear-thinning nanoengineered hydrogels for stem cell delivery. <i>Nanoscale</i> , 2016, 8, 12362-12372.	2.8	150
60	Incorporation of mesoporous silica nanoparticles into random electrospun PLGA and PLGA/gelatin nanofibrous scaffolds enhances mechanical and cell proliferation properties. <i>Materials Science and Engineering C</i> , 2016, 66, 25-32.	3.8	85
61	An ecofriendly graphene-based nanofluid for heat transfer applications. <i>Journal of Cleaner Production</i> , 2016, 137, 555-566.	4.6	72
62	Engineering complex tissue-like microgel arrays for evaluating stem cell differentiation. <i>Scientific Reports</i> , 2016, 6, 30445.	1.6	31
63	3D Printed Silicone-Hydrogel Scaffold with Enhanced Physicochemical Properties. <i>Biomacromolecules</i> , 2016, 17, 1321-1329.	2.6	53
64	Electrophoretic deposition of calcium silicate-reduced graphene oxide composites on titanium substrate. <i>Journal of the European Ceramic Society</i> , 2016, 36, 319-332.	2.8	67
65	Elastomeric nanocomposite scaffolds made from poly(glycerol sebacate) chemically crosslinked with carbon nanotubes. <i>Biomaterials Science</i> , 2015, 3, 46-58.	2.6	85
66	Synthesis of Nano- and Micro-Scale Topographies by Combining Colloidal Lithography and Glancing Angle Deposition (GLAD). <i>Advanced Engineering Materials</i> , 2015, 17, 8-13.	1.6	8
67	Layer-by-Layer Assembly of 3D Tissue Constructs with Functionalized Graphene. <i>Advanced Functional Materials</i> , 2014, 24, 6136-6144.	7.8	151
68	Nanoclay-Enriched Poly(ϵ -caprolactone) Electrospun Scaffolds for Osteogenic Differentiation of Human Mesenchymal Stem Cells. <i>Tissue Engineering - Part A</i> , 2014, 20, 2088-2101.	1.6	133
69	A combinatorial cell-laden gel microarray for inducing osteogenic differentiation of human mesenchymal stem cells. <i>Scientific Reports</i> , 2014, 4, 3896.	1.6	123
70	Growth Characteristics Of Glancing Angle Deposited (GLAD) Thin Films. <i>Advanced Materials Letters</i> , 2014, 5, 634-638.	0.3	2
71	Directed endothelial cell morphogenesis in micropatterned gelatin methacrylate hydrogels. <i>Biomaterials</i> , 2012, 33, 9009-9018.	5.7	221
72	Micro- and Nanoengineering Approaches to Control Stem Cell-Biomaterial Interactions. <i>Journal of Functional Biomaterials</i> , 2011, 2, 88-106.	1.8	47

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73	Interfacial Fibrin Polymerization and Fibrillation Kinetics Is Influenced by Nanoscale Roughness and Fibrinogen-Fibrin Cleavage in Solution. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13617-13623.	1.5	10
74	Cell shape and spreading of stromal (mesenchymal) stem cells cultured on fibronectin coated gold and hydroxyapatite surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 84, 18-25.	2.5	41
75	Osteopontin functionalization of hydroxyapatite nanoparticles in a PDLLA matrix promotes bone formation. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 99A, 94-101.	2.1	44
76	Nanoscale topography reduces fibroblast growth, focal adhesion size and migration-related gene expression on platinum surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 85, 189-197.	2.5	60
77	Growth characteristics of inclined columns produced by Glancing Angle Deposition (GLAD) and colloidal lithography. <i>Applied Surface Science</i> , 2011, 257, 2226-2230.	3.1	26
78	The adsorption characteristics of osteopontin on hydroxyapatite and gold. <i>Materials Science and Engineering C</i> , 2011, 31, 514-522.	3.8	4
79	Interaction of human mesenchymal stem cells with osteopontin coated hydroxyapatite surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 75, 186-193.	2.5	38
80	Hydroxyapatite nanoparticles in poly(D,L-lactide acid coatings on porous titanium implants conducts bone formation. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 95A, 665-672.	2.1	36
81	Synthesis of Functional Nanomaterials via Colloidal Mask Templating and Glancing Angle Deposition (GLAD). <i>Advanced Engineering Materials</i> , 2010, 12, 899-905.	1.6	18
82	A combinatorial screening of human fibroblast responses on micro-structured surfaces. <i>Biomaterials</i> , 2010, 31, 9182-9191.	5.7	70
83	Fibronectin Adsorption, Cell Adhesion, and Proliferation on Nanostructured Tantalum Surfaces. <i>ACS Nano</i> , 2010, 4, 2874-2882.	7.3	163
84	Responses of fibroblasts and glial cells to nanostructured platinum surfaces. <i>Nanotechnology</i> , 2009, 20, 385103.	1.3	42
85	The influence of glancing angle deposited nano-rough platinum surfaces on the adsorption of fibrinogen and the proliferation of primary human fibroblasts. <i>Nanotechnology</i> , 2009, 20, 095101.	1.3	52
86	Enhanced Surface Activation of Fibronectin upon Adsorption on Hydroxyapatite. <i>Langmuir</i> , 2009, 25, 2971-2978.	1.6	74
87	Influence of Nanoroughness and Detailed Surface Morphology on Structural Properties and Water-Coupling Capabilities of Surface-Bound Fibrinogen Films. <i>Journal of Physical Chemistry C</i> , 2009, 113, 4406-4412.	1.5	37
88	Bovine serum albumin adsorption on nano-rough platinum surfaces studied by QCM-D. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 66, 53-59.	2.5	140
89	Morphology, proliferation, and osteogenic differentiation of mesenchymal stem cells cultured on titanium, tantalum, and chromium surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 86A, 448-458.	2.1	106
90	Scaling behavior of the surface roughness of platinum films grown by oblique angle deposition. <i>Physical Review B</i> , 2008, 77, .	1.1	57