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List of Publications by Year in Descending Order

92 papers	6,509 citations	33 h-index	80 g-index
102 ext. papers	7,943 ext. citations	6.3 avg, IF	6.19 L-index

#	Paper	IF	Citations
92	Investigation of the tris(8-hydroxyquinoline) aluminum as a promising fluorescent optical material for in vitro bioimaging. *Optical Materials*, **2022**, 127, 112260	3.3	1
91	MicroRNAs and Regulation of Autophagy in Chondrocytes. *Methods in Molecular Biology*, **2021**, 2245, 179-194	1.4	0
90	3D-Printed Hydrogel-Filled Microneedle Arrays. *Advanced Healthcare Materials*, **2021**, 10, e2001922	10.1	6
89	In situ printing of scaffolds for reconstruction of bone defects. *Acta Biomaterialia*, **2021**, 127, 313-326	10.8	12
88	Oxygen-Generating Cryogels Restore T Cell Mediated Cytotoxicity in Hypoxic Tumors. *Advanced Functional Materials*, **2021**, 31, 2102234	15.6	4
87	Size-controlled, single-crystal CuO nanosheets and the resulting polyethylene□arbon nanotube nanocomposite as antimicrobial materials. *Polymer Bulletin*, **2021**, 78, 261-281	2.4	3
86	Tunable fabrication of rice-like nanostructures aggregated into flowers of Alq3 with negligible photo-degradation for potential biomedical applications. *Materials Chemistry and Physics*, **2021**, 259, 124080	4.4	8
85	Neuroscience and Neuroimmunology Solutions for Osteoarthritis Pain: Biological Drugs, Growth Factors, Peptides and Monoclonal Antibodies Targeting Peripheral Nerves. *NeuroSci*, **2021**, 2, 45-58	1.7	
84	Electroconductive biomaterials for cardiac tissue engineering. *Acta Biomaterialia*, **2021**, 139, 118-118	10.8	11
83	Injectable Lignin--Gelatin Cryogels with Antioxidant and Antibacterial Properties for Biomedical Applications. *Biomacromolecules*, **2021**, 22, 4110-4121	6.9	7
82	Over-Production of Therapeutic Growth Factors for Articular Cartilage Regeneration by Protein Production Platforms and Protein Packaging Cell Lines. *Biology*, **2020**, 9,	4.9	3
81	Oxygen-Releasing Antibacterial Nanofibrous Scaffolds for Tissue Engineering Applications. *Polymers*, **2020**, 12,	4.5	22
80	Magnetic Nanoparticles in Cancer Therapy and Diagnosis. *Advanced Healthcare Materials*, **2020**, 9, e1901058	10.1	96
79	Effect of Polymer Concentration on Autoclaved Cryogel Properties. *Macromolecular Materials and Engineering*, **2020**, 305, 1900824	3.9	12
78	Process-Structure-Quality Relationships of Three-Dimensional Printed Poly(Caprolactone)-Hydroxyapatite Scaffolds. *Tissue Engineering - Part A*, **2020**, 26, 279-291	3.9	29
77	Injectable Cryogels for Biomedical Applications. *Trends in Biotechnology*, **2020**, 38, 418-431	15.1	74
76	Cell and Gene Therapy for Spine Regeneration: Mammalian Protein Production Platforms for Overproduction of Therapeutic Proteins and Growth Factors. *Neurosurgery Clinics of North America*, **2020**, 31, 131-139	4	7

75	3D Printing of Metal/Metal Oxide Incorporated Thermoplastic Nanocomposites With Antimicrobial Properties. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 568186	5.8	10
74	Needle-injectable microcomposite cryogel scaffolds with antimicrobial properties. *Scientific Reports* , **2020**, 10, 18370	4.9	9
73	Supramolecular Self-Assembled Peptide-Based Vaccines: Current State and Future Perspectives. *Frontiers in Chemistry*, **2020**, 8, 598160	5	16
72	Sustainable drug release from polycaprolactone coated chitin-lignin gel fibrous scaffolds. *Scientific Reports*, **2020**, 10, 20428	4.9	15
71	Future Cell and Gene Therapy for Osteoarthritis (OA): Potential for Using Mammalian Protein Production Platforms, Irradiated and Transfected Protein Packaging Cell Lines for Over-Production of Therapeutic Proteins and Growth Factors. *Advances in Experimental Medicine and Biology*, **2020**, 1247, 17-31	3.6	8
70	Non-viral Gene Therapy for Osteoarthritis. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 618399	5.8	7
69	Latest Progress in Electrospun Nanofibers for Wound Healing Applications.. *ACS Applied Bio Materials*, **2019**, 2, 952-969	4.1	142
68	Electrospun cellulose Nano fibril reinforced PLA/PBS composite scaffold for vascular tissue engineering. *Journal of Polymer Research*, **2019**, 26, 1	2.7	32
67	Nanocomposites of CuO/SWCNT: Promising thermoelectric materials for mid-temperature thermoelectric generators. *Journal of the European Ceramic Society*, **2019**, 39, 3307-3314	6	17
66	Size controlled, antimicrobial ZnO nanostructures produced by the microwave assisted route. *Materials Science and Engineering C*, **2019**, 99, 1164-1173	8.3	25
65	Autoclavable and Injectable Cryogels for Biomedical Applications. *Advanced Healthcare Materials*, **2019**, 8, e1900679	10.1	21
64	Graphene and Graphene-Based Materials in Biomedical Applications. *Current Medicinal Chemistry*, **2019**, 26, 6834-6850	4.3	11
63	Latest Advances in Cryogel Technology for Biomedical Applications. *Advanced Therapeutics*, **2019**, 2, 1800114	4.9	105
62	Hybrid Paper-Plastic Microchip for Flexible and High-Performance Point-of-Care Diagnostics. *Advanced Functional Materials*, **2018**, 28, 1707161	15.6	30
61	Drug delivery systems and materials for wound healing applications. *Advanced Drug Delivery Reviews*, **2018**, 127, 138-166	18.5	294
60	The Effect of Poly (Glycerol Sebacate) Incorporation within Hybrid Chitin-Lignin Sol-Gel Nanofibrous Scaffolds. *Materials*, **2018**, 11,	3.5	17
59	A Comprehensive Review of Stem Cells for Cartilage Regeneration in Osteoarthritis. *Advances in Experimental Medicine and Biology*, **2018**, 1089, 23-36	3.6	31
58	Injectable Hyaluronic Acid--Gelatin Cryogels for Tissue-Engineering Applications. *Materials*, **2018**, 11,	3.5	54

57	The Potency of Induced Pluripotent Stem Cells in Cartilage Regeneration and Osteoarthritis Treatment. *Advances in Experimental Medicine and Biology*, **2018**, 1079, 55-68	3.6	9
56	Encapsulation of 5-Flurouracil into PLGA Nanofibers and Enhanced Anticancer Effect in Combination with Ajwa-Dates-Extract (.). *Journal of Biomedical Nanotechnology*, **2018**, 14, 553-563	4	10
55	Nanoparticles in tissue engineering: applications, challenges and prospects. *International Journal of Nanomedicine*, **2018**, 13, 5637-5655	7.3	188
54	Study of Electrospinning Parameters and Collection Methods on Size Distribution and Orientation of PLA/PBS Hybrid Fiber Using Digital Image Processing. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 8240-8251	1.3	13
53	Advances in Candida detection platforms for clinical and point-of-care applications. *Critical Reviews in Biotechnology*, **2017**, 37, 441-458	9.4	36
52	Fabrication and characterization of poly (aniline-co-o-anthranilic acid)/magnetite nanocomposites and their application in wastewater treatment. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 520, 121-130	5.1	26
51	Bioprinting technologies for disease modeling. *Biotechnology Letters*, **2017**, 39, 1279-1290	3	39
50	The role of metabolism in the pathogenesis of osteoarthritis. *Nature Reviews Rheumatology*, **2017**, 13, 302-311	8.1	262
49	Label-free electrical sensing of bacteria in eye wash samples: A step towards point-of-care detection of pathogens in patients with infectious keratitis. *Biosensors and Bioelectronics*, **2017**, 91, 32-39	11.8	13
48	Size controlled ultrafine CeO nanoparticles produced by the microwave assisted route and their antimicrobial activity. *Journal of Materials Science: Materials in Medicine*, **2017**, 28, 177	4.5	7
47	Pathogenesis of Thromboembolism and Endovascular Management. *Thrombosis*, **2017**, 2017, 3039713		22
46	Biodegradable elastic nanofibrous platforms with integrated flexible heaters for on-demand drug delivery. *Scientific Reports*, **2017**, 7, 9220	4.9	67
45	Rapid fabrication of highly porous and biocompatible composite textile tubular scaffold for vascular tissue engineering. *European Polymer Journal*, **2017**, 96, 27-43	5.2	18
44	Microfibrous silver-coated polymeric scaffolds with tunable mechanical properties. *RSC Advances*, **2017**, 7, 34331-34338	3.7	17
43	Paper microchip with a graphene-modified silver nano-composite electrode for electrical sensing of microbial pathogens. *Nanoscale*, **2017**, 9, 1852-1861	7.7	48
42	Nanofibrous Silver-Coated Polymeric Scaffolds with Tunable Electrical Properties. *Nanomaterials*, **2017**, 7,	5.4	17
41	Mesenchymal stem cells in regenerative medicine: Focus on articular cartilage and intervertebral disc regeneration. *Methods*, **2016**, 99, 69-80	4.6	263
40	Mesenchymal stem cells: Identification, phenotypic characterization, biological properties and potential for regenerative medicine through biomaterial micro-engineering of their niche. *Methods*, **2016**, 99, 62-8	4.6	149

39	Formation of Carbon Nanotubes from Carbon-Rich Fly Ash: Growth Parameters and Mechanism. *Materials and Manufacturing Processes*, **2016**, 31, 146-156	4.1	30
38	Gelatin-Based Biomaterials For Tissue Engineering And Stem Cell Bioengineering **2016**, 37-62		21
37	Nanoengineered biomimetic hydrogels for guiding human stem cell osteogenesis in three dimensional microenvironments. *Journal of Materials Chemistry B*, **2016**, 4, 3544-3554	7.3	122
36	Self-assembled peptide-based nanostructures: Smart nanomaterials toward targeted drug delivery. *Nano Today*, **2016**, 11, 41-60	17.9	364
35	Carbon rich fly ash and their nanostructures. *Carbon Letters*, **2016**, 19, 23-31	2.3	11
34	Nano-Enabled Approaches for Stem Cell-Based Cardiac Tissue Engineering. *Advanced Healthcare Materials*, **2016**, 5, 1533-53	10.1	43
33	Carbon Nanotubes in Biomedical Applications: Factors, Mechanisms, and Remedies of Toxicity. *Journal of Medicinal Chemistry*, **2016**, 59, 8149-67	8.3	222
32	A multilayered microfluidic blood vessel-like structure. *Biomedical Microdevices*, **2015**, 17, 88	3.7	82
31	Hydrogels 2.0: improved properties with nanomaterial composites for biomedical applications. *Biomedical Materials (Bristol)*, **2015**, 11, 014104	3.5	67
30	Aligned carbon nanotube-based flexible gel substrates for engineering bio-hybrid tissue actuators. *Advanced Functional Materials*, **2015**, 25, 4486-4495	15.6	116
29	A Highly Elastic and Rapidly Crosslinkable Elastin-Like Polypeptide-Based Hydrogel for Biomedical Applications. *Advanced Functional Materials*, **2015**, 25, 4814-4826	15.6	148
28	Osteoarthritis in the XXIst century: risk factors and behaviours that influence disease onset and progression. *International Journal of Molecular Sciences*, **2015**, 16, 6093-112	6.3	172
27	Mesenchymal Stem Cells and their Potential for Microengineering the Chondrocyte Niche. *EBioMedicine*, **2015**, 2, 1560-1	8.8	3
26	Ni Doped CuO Nanoparticles: Structural and Optical Characterizations. *Current Nanoscience*, **2015**, 11, 191-197	1.4	30
25	Application of wavelet transform for PDZ domain classification. *PLoS ONE*, **2015**, 10, e0122873	3.7	1
24	Regulation of chondrogenesis by protein kinase C: Emerging new roles in calcium signalling. *Cellular Signalling*, **2014**, 26, 979-1000	4.9	47
23	Myotube formation on gelatin nanofibers - multi-walled carbon nanotubes hybrid scaffolds. *Biomaterials*, **2014**, 35, 6268-77	15.6	93
22	Ser/Thr-phosphoprotein phosphatases in chondrogenesis: neglected components of a two-player game. *Cellular Signalling*, **2014**, 26, 2175-85	4.9	15

21	Polymeric Biomaterials for Implantable Prostheses **2014**, 309-331		12
20	Microfluidic techniques for development of 3D vascularized tissue. *Biomaterials*, **2014**, 35, 7308-25	15.6	215
19	The first observation of memory effects in the infrared (FT-IR) measurements: do successive measurements remember each other?. *PLoS ONE*, **2014**, 9, e94305	3.7	6
18	Finding the winning combination. Combinatorial screening of three dimensional niches to guide stem cell osteogenesis. *Organogenesis*, **2014**, 10, 299-302	1.7	4
17	Electrospun scaffolds for tissue engineering of vascular grafts. *Acta Biomaterialia*, **2014**, 10, 11-25	10.8	512
16	Chondrocyte and mesenchymal stem cell-based therapies for cartilage repair in osteoarthritis and related orthopaedic conditions. *Maturitas*, **2014**, 78, 188-98	5	178
15	Syntheses and characterization of thin films of Te94Se6 nanoparticles for semiconducting and optical devices. *Thin Solid Films*, **2013**, 531, 70-75	2.2	9
14	Raman Spectra of Nanodiamonds: New Treatment Procedure Directed for Improved Raman Signal Marker Detection. *Mathematical Problems in Engineering*, **2013**, 2013, 1-11	1.1	3
13	On Classification of PDZ Domains: A Computational Study. *Mathematical Problems in Engineering*, **2013**, 2013, 1-9	1.1	
12	Antimicrobial activity of metal oxide nanoparticles against Gram-positive and Gram-negative bacteria: a comparative study. *International Journal of Nanomedicine*, **2012**, 7, 6003-9	7.3	783
11	Size-dependent antimicrobial properties of CuO nanoparticles against Gram-positive and -negative bacterial strains. *International Journal of Nanomedicine*, **2012**, 7, 3527-35	7.3	467
10	High-energy ball milling technique for ZnO nanoparticles as antibacterial material. *International Journal of Nanomedicine*, **2011**, 6, 863-9	7.3	138
9	Subunit-specific polyclonal antibody targeting human ρ1 GABA(C) receptor. *Experimental Eye Research*, **2011**, 93, 59-64	3.7	1
8	Generation of recombinant guinea pig antibody fragments to the human GABAC receptor. *Journal of Immunological Methods*, **2011**, 368, 36-44	2.5	2
7	Apparent structural differences at the tetramerization region of erythroid and nonerythroid beta spectrin as discriminated by phage displayed scFvs. *Protein Science*, **2011**, 20, 867-79	6.3	3
6	Mesenchymal stem cells in regenerative medicine: opportunities and challenges for articular cartilage and intervertebral disc tissue engineering. *Journal of Cellular Physiology*, **2010**, 222, 23-32	7	153
5	Targeting GIPC/synectin in pancreatic cancer inhibits tumor growth. *Clinical Cancer Research*, **2009**, 15, 4095-103	12.9	34
4	T7 phage display as a method of peptide ligand discovery for PDZ domain proteins. *Biopolymers*, **2009**, 92, 183-93	2.2	22

3	How do halogen substituents contribute to protein-binding interactions? A thermodynamic study of peptide ligands with diverse aryl halides. *ChemBioChem*, **2008**, 9, 2793-5	3.8	20
2	(Bio)manufactured Solutions for Treatment of Bone Defects with an Emphasis on US-FDA Regulatory Science Perspective. *Advanced NanoBiomed Research*,2100073	0	1
1	Oxygen-generating cryogels restore T cell-mediated cytotoxicity in hypoxic tumors		3