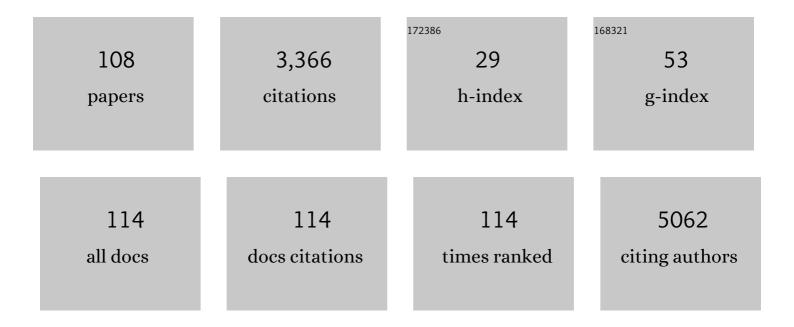
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Muscle fatigue: general understanding and treatment. Experimental and Molecular Medicine, 2017, 49, e384-e384.	3.2	340
2	A singleâ€cell transcriptome atlas of the adult human retina. EMBO Journal, 2019, 38, e100811.	3.5	185
3	Leaky-Wave Antennas Based on Noncutoff Substrate Integrated Waveguide Supporting Beam Scanning From Backward to Forward. IEEE Transactions on Antennas and Propagation, 2016, 64, 2155-2164.	3.1	172
4	Modulation of alignment, elongation and contraction of cardiomyocytes through a combination of nanotopography and rigidity of substrates. Acta Biomaterialia, 2011, 7, 3285-3293.	4.1	158
5	Ocular Drug Delivery: Role of Degradable Polymeric Nanocarriers for Ophthalmic Application. International Journal of Molecular Sciences, 2018, 19, 2830.	1.8	154
6	Screening of rat mesenchymal stem cell behaviour on polydimethylsiloxane stiffness gradients. Acta Biomaterialia, 2012, 8, 519-530.	4.1	126
7	Screening Mesenchymal Stem Cell Attachment and Differentiation on Porous Silicon Gradients. Advanced Functional Materials, 2012, 22, 3414-3423.	7.8	109
8	Modulation of alignment and differentiation of skeletal myoblasts by submicron ridges/grooves surface structure. Biotechnology and Bioengineering, 2010, 106, 285-294.	1.7	95
9	Modulation of osteogenic, adipogenic and myogenic differentiation of mesenchymal stem cells by submicron grooved topography. Journal of Materials Science: Materials in Medicine, 2012, 23, 3015-3028.	1.7	92
10	Modulation of human multipotent and pluripotent stem cells using surface nanotopographies and surface-immobilised bioactive signals: A review. Acta Biomaterialia, 2016, 45, 31-59.	4.1	80
11	miRNA-124 in Immune System and Immune Disorders. Frontiers in Immunology, 2016, 7, 406.	2.2	74
12	Modulation of human mesenchymal and pluripotent stem cell behavior using biophysical and biochemical cues: A review. Biotechnology and Bioengineering, 2017, 114, 260-280.	1.7	69
13	The roles of RGD and grooved topography in the adhesion, morphology, and differentiation of C2C12 skeletal myoblasts. Biotechnology and Bioengineering, 2012, 109, 2104-2115.	1.7	63
14	Periodic Leaky-Wave Antenna Based on Complementary Pair of Radiation Elements. IEEE Transactions on Antennas and Propagation, 2018, 66, 4503-4515.	3.1	61
15	Modulation of Human Mesenchymal Stem Cell Behavior on Ordered Tantalum Nanotopographies Fabricated Using Colloidal Lithography and Glancing Angle Deposition. ACS Applied Materials & Interfaces, 2015, 7, 4979-4989.	4.0	59
16	Grooved PLGA films incorporated with RGD/YIGSR peptides for potential application on skeletal muscle tissue engineering. Colloids and Surfaces B: Biointerfaces, 2013, 110, 88-95.	2.5	56
17	Protective cerebrovascular effects of hydroxysafflor yellow A (HSYA) on ischemic stroke. European Journal of Pharmacology, 2018, 818, 604-609.	1.7	52
18	Self-assembled binary colloidal crystal monolayers as cell culture substrates. Journal of Materials Chemistry B, 2015, 3, 2545-2552.	2.9	49

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19	Dynamic compression modulates chondrocyte proliferation and matrix biosynthesis in chitosan/gelatin scaffolds. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 91B, 143-152.	1.6	45
20	Screening rat mesenchymal stem cell attachment and differentiation on surface chemistries using plasma polymer gradients. Acta Biomaterialia, 2015, 11, 58-67.	4.1	44
21	Nicotine protects against DSS colitis through regulating microRNA-124 and STAT3. Journal of Molecular Medicine, 2017, 95, 221-233.	1.7	43
22	Stimulation of Early Osteochondral Differentiation of Human Mesenchymal Stem Cells Using Binary Colloidal Crystals (BCCs). ACS Applied Materials & Interfaces, 2016, 8, 4477-4488.	4.0	41
23	MicroRNA-124 negatively regulates LPS-induced TNF-α production in mouse macrophages by decreasing protein stability. Acta Pharmacologica Sinica, 2016, 37, 889-897.	2.8	40
24	Gene Therapy Intervention in Neovascular Eye Disease: A Recent Update. Molecular Therapy, 2020, 28, 2120-2138.	3.7	38
25	Electrochemistry-enabled fabrication of orthogonal nanotopography and surface chemistry gradients for high-throughput screening. Lab on A Chip, 2012, 12, 1480.	3.1	37
26	Mesenchymal stem cell attachment to peptide density gradients on porous silicon generated by electrografting. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 1440-1445.	0.8	33
27	Binary colloidal crystals (BCCs): Interactions, fabrication, and applications. Advances in Colloid and Interface Science, 2018, 261, 102-127.	7.0	33
28	Binary colloidal crystals (BCCs) as a feeder-free system to generate human induced pluripotent stem cells (hiPSCs). Scientific Reports, 2016, 6, 36845.	1.6	32
29	Screening the attachment and spreading of bone marrow-derived and adipose-derived mesenchymal stem cells on porous silicon gradients. RSC Advances, 2012, 2, 12857.	1.7	31
30	Modulation of cell attachment and collagen production of anterior cruciate ligament cells via submicron grooves/ridges structures with different cell affinity. Biotechnology and Bioengineering, 2013, 110, 327-337.	1.7	30
31	Role of acuteâ€phase protein ORM in a mice model of ischemic stroke. Journal of Cellular Physiology, 2019, 234, 20533-20545.	2.0	30
32	Ex Vivo Expansion and Drug Sensitivity Profiling of Circulating Tumor Cells from Patients with Small Cell Lung Cancer. Cancers, 2020, 12, 3394.	1.7	30
33	Approach for in vivo delivery of CRISPR/Cas system: a recent update and future prospect. Cellular and Molecular Life Sciences, 2021, 78, 2683-2708.	2.4	29
34	Modulation of Gene Expression of Rabbit Chondrocytes by Dynamic Compression in Polyurethane Scaffolds with Collagen Gel Encapsulation. Journal of Biomaterials Applications, 2009, 23, 347-366.	1.2	26
35	Binary Colloidal Crystals Drive Spheroid Formation and Accelerate Maturation of Human-Induced Pluripotent Stem Cell-Derived Cardiomyocytes. ACS Applied Materials & Interfaces, 2019, 11, 3679-3689.	4.0	25
36	Heterogeneity of mesenchymal and pluripotent stem cell populations grown on nanogrooves and nanopillars. Journal of Materials Chemistry B, 2017, 5, 7927-7938.	2.9	24

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37	Conformationally tuned antibacterial oligomers target the peptidoglycan of Gram-positive bacteria. Journal of Colloid and Interface Science, 2020, 580, 850-862.	5.0	24
38	The role of cellulose nanowhiskers in controlling phase segregation, crystallization and thermal stimuli responsiveness in PCL-PEGx-PCL block copolymer-based PU for human tissue engineering applications. Carbohydrate Polymers, 2021, 252, 117219.	5.1	24
39	High-throughput characterisation of osteogenic differentiation of human mesenchymal stem cells using pore size gradients on porous alumina. Biomaterials Science, 2013, 1, 924.	2.6	22
40	Ex Vivo Expanded Circulating Tumor Cells for Clinical Anti-Cancer Drug Prediction in Patients with Head and Neck Cancer. Cancers, 2021, 13, 6076.	1.7	22
41	Numerical investigation of nematic liquid crystals in the THz band based on EIT sensor. Optics Express, 2018, 26, 12318.	1.7	21
42	Albumin-stabilized layered double hydroxide nanoparticles synergized combination chemotherapy for colorectal cancer treatment. Nanomedicine: Nanotechnology, Biology, and Medicine, 2021, 34, 102369.	1.7	21
43	Tuning the Density of Poly(ethylene glycol) Chains to Control Mammalian Cell and Bacterial Attachment. Polymers, 2017, 9, 343.	2.0	20
44	Modulation of the proliferation and matrix synthesis of chondrocytes by dynamic compression on genipin-crosslinked chitosan/collagen scaffolds. Journal of Biomaterials Science, Polymer Edition, 2013, 24, 507-519.	1.9	19
45	33 W quasi-continuous-wave narrow-band sodium D 2a laser by sum-frequency generation in LBO. Chinese Physics B, 2014, 23, 094208.	0.7	19
46	Comparison of laser induced thermal fracture between polycrystalline ceramic and crystal Nd:YAG. Optics Letters, 2014, 39, 1965.	1.7	19
47	Binary Colloidal Crystal Layers as Platforms for Surface Patterning of Puroindoline-Based Antimicrobial Peptides. ACS Applied Materials & Interfaces, 2018, 10, 2264-2274.	4.0	19
48	Estrogen weakens muscle endurance via estrogen receptor-p38 MAPK-mediated orosomucoid (ORM) suppression. Experimental and Molecular Medicine, 2018, 50, e463-e463.	3.2	19
49	Decoration of Material Surfaces with Complex Physicochemical Signals for Biointerface Applications. ACS Biomaterials Science and Engineering, 2020, 6, 1836-1851.	2.6	19
50	Stimulation of autophagic activity in human glioma cells by anti-proliferative ardipusilloside I isolated from Ardisia pusilla. Life Sciences, 2014, 110, 15-22.	2.0	18
51	The influence of PEC-thiol derivatives on controlling cellular and bacterial interactions with gold surfaces. Applied Surface Science, 2018, 462, 980-990.	3.1	18
52	Tunable Chemical and Topographic Patterns Based on Binary Colloidal Crystals (BCCs) to Modulate MG63 Cell Growth. Advanced Functional Materials, 2019, 29, 1904262.	7.8	18
53	ORM Promotes Skeletal Muscle Glycogen Accumulation via CCR5-Activated AMPK Pathway in Mice. Frontiers in Pharmacology, 2016, 7, 302.	1.6	17
54	Beam Switching Antenna Based on a Reconfigurable Cascaded Feeding Network. IEEE Transactions on Antennas and Propagation, 2018, 66, 627-635.	3.1	17

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55	A Fibrous Hybrid Patch Couples Cell-Derived Matrix and Poly( <scp>l</scp> -lactide- <i>co</i> -caprolactone) for Endothelial Cells Delivery and Skin Wound Repair. ACS Biomaterials Science and Engineering, 2019, 5, 900-910.	2.6	16
56	MicroRNA124-IL6R Mediates the Effect of Nicotine in Inflammatory Bowel Disease by Shifting Th1/Th2 Balance Toward Th1. Frontiers in Immunology, 2020, 11, 235.	2.2	16
57	Correlation between drug sensitivity profiles of circulating tumour cell-derived organoids and clinical treatment response in patients with pancreatic ductal adenocarcinoma. European Journal of Cancer, 2022, 166, 208-218.	1.3	16
58	Rapid Selfâ€Assembly of Shaped Microtiles into Large, Closeâ€Packed Crystalline Monolayers on Solid Surfaces. Small, 2016, 12, 1309-1314.	5.2	15
59	Modulation of PEI-Mediated Gene Transfection through Controlling Cytoskeleton Organization and Nuclear Morphology via Nanogrooved Topographies. ACS Biomaterials Science and Engineering, 2017, 3, 3283-3291.	2.6	15
60	Controlled Attachment of <i>Pseudomonas aeruginosa</i> with Binary Colloidal Crystalâ€Based Topographies. Small, 2018, 14, e1703574.	5.2	15
61	c-Jun enhances intestinal epithelial restitution after wounding by increasing phospholipase C-Î <sup>3</sup> 1 transcription. American Journal of Physiology - Cell Physiology, 2017, 312, C367-C375.	2.1	14
62	Response of MG63 osteoblast-like cells to ordered nanotopographies fabricated using colloidal self-assembly and glancing angle deposition. Biointerphases, 2015, 10, 04A306.	0.6	13
63	Enhanced attachment of human mesenchymal stem cells on nanograined titania surfaces. RSC Advances, 2016, 6, 55825-55833.	1.7	13
64	Mangrove Inspired Anti-Corrosion Coatings. Coatings, 2019, 9, 725.	1.2	13
65	The adipokine orosomucoid alleviates adipose tissue fibrosis via the AMPK pathway. Acta Pharmacologica Sinica, 2022, 43, 367-375.	2.8	13
66	Colloidal crystal based plasma polymer patterning to control <i>Pseudomonas aeruginosa</i> attachment to surfaces. Biointerphases, 2015, 10, 04A309.	0.6	12
67	Minimal attachment of <i>Pseudomonas aeruginosa</i> to DNA modified surfaces. Biointerphases, 2018, 13, 06E405.	0.6	12
68	Methods for in vitro CRISPR/CasRx-Mediated RNA Editing. Frontiers in Cell and Developmental Biology, 2021, 9, 667879.	1.8	12
69	An injectable, self-assembled multicellular microsphere with the incorporation of fibroblast-derived extracellular matrix for therapeutic angiogenesis. Materials Science and Engineering C, 2020, 113, 110961.	3.8	11
70	Vapor-phased fabrication and modulation of cell-laden scaffolding materials. Nature Communications, 2021, 12, 3413.	5.8	11
71	Fibronectin and culture temperature modulate the efficacy of an avidin–biotin binding system for chondrocyte adhesion and growth on biodegradable polymers. Biotechnology and Bioengineering, 2007, 98, 498-507.	1.7	10
72	Clicking dendritic peptides onto single walled carbon nanotubes. RSC Advances, 2012, 2, 1289-1291.	1.7	10

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73	Facile Route of Fabricating Long-Term Microbicidal Silver Nanoparticle Clusters against Shiga Toxin-Producing Escherichia coli O157:H7 and Candida auris. Coatings, 2020, 10, 28.	1.2	10
74	Electronically controlled beam steering leaky wave antenna in nematic liquid crystal technology. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22188.	0.8	10
75	Combinatorial Approach of Binary Colloidal Crystals and CRISPR Activation to Improve Induced Pluripotent Stem Cell Differentiation into Neurons. ACS Applied Materials & Interfaces, 2022, 14, 8669-8679.	4.0	10
76	Ardipusilloside-I Metabolites from Human Intestinal Bacteria and Their Antitumor Activity. Molecules, 2015, 20, 20569-20581.	1.7	9
77	Mechanical Properties of Strontium–Hardystonite–Gahnite Coating Formed by Atmospheric Plasma Spray. Coatings, 2019, 9, 759.	1.2	9
78	Topographical Modulation of Pluripotency and Differentiation of Human Embryonic Stem Cells. IEEE Nanotechnology Magazine, 2018, 17, 381-384.	1.1	8
79	Programming Colloidal Self-Assembled Patterns (cSAPs) into Thermo-Responsible Hybrid Surfaces for Controlling Human Stem Cells and Macrophages. ACS Applied Materials & Interfaces, 2021, 13, 18563-18580.	4.0	8
80	Parylene-Based Porous Scaffold with Functionalized Encapsulation of Platelet-Rich Plasma and Living Stem Cells for Tissue Engineering Applications. ACS Applied Bio Materials, 2020, 3, 7193-7201.	2.3	7
81	Harnessing Colloidal Self-Assembled Patterns (cSAPs) to Regulate Bacterial and Human Stem Cell Response at Biointerfaces <i>In Vitro</i> and <i>In Vivo</i> . ACS Applied Materials & Interfaces, 2021, 13, 20982-20994.	4.0	7
82	Topical application of TAK1 inhibitor encapsulated by gelatin particle alleviates corneal neovascularization. Theranostics, 2022, 12, 657-674.	4.6	7
83	Harnessing the perinuclear actin cap (pnAC) to influence nanocarrier trafficking and gene transfection efficiency in skeletal myoblasts using nanopillars. Acta Biomaterialia, 2020, 111, 221-231.	4.1	6
84	Harnessing Focal Adhesions to Accelerate p53 Accumulation and Anoikis of A549 Cells Using Colloidal Self-Assembled Patterns (cSAPs). ACS Applied Bio Materials, 2022, 5, 322-333.	2.3	6
85	Guiding the Dewetting of Thin Polymer Films by Colloidal Imprinting. Advanced Materials Interfaces, 2015, 2, 1500068.	1.9	5
86	Fibroblast Responses Toward Colloidal Assembles and Plasma Polymer Coating. IEEE Nanotechnology Magazine, 2018, 17, 385-388.	1.1	5
87	New Combination/Application of Polymer-Based Nanoparticles for Biomedical Engineering. Advances in Experimental Medicine and Biology, 2018, 1078, 271-290.	0.8	4
88	A Liquid Crystal Based Dynamic Metasurface for Beam Steering and Computational Imaging. , 2020, , .		4
89	Colloidal Self-Assembled Patterns Maintain the Pluripotency and Promote the Hemopoietic Potential of Human Embryonic Stem Cells. Frontiers in Cell and Developmental Biology, 2021, 9, 771773.	1.8	4
90	A Novel Approach to Quantitatively Assess the Uniformity of Binary Colloidal Crystal Assemblies. Crystals, 2016, 6, 84.	1.0	3

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91	Electrically controlled leaky wave antenna with wide-angle scanning based on liquid crystal. , 2016, , .		3
92	Vapor-Deposited Reactive Coating with Chemically and Topographically Erasable Properties. Polymers, 2019, 11, 1595.	2.0	3
93	Binary Colloidal Crystal (BCC) Substrates for Controlling the Fate of Mouse Embryonic Stem Cells. Colloids and Surfaces B: Biointerfaces, 2020, 194, 111133.	2.5	3
94	Expansion of Rare Cancer Cells into Tumoroids for Therapeutic Regimen and Cancer Therapy. Advanced Therapeutics, 2021, 4, 2100017.	1.6	3
95	Computational and in vitro validation of cardiogenic induction of quercetin on adiposeâ€derived mesenchymal stromal cells through the inhibition of Wnt and nonâ€6madâ€dependent TGFâ€Î² pathways. Journal of Cellular Biochemistry, 2021, , .	1.2	3
96	An S-band left-handed tunable phase shifter based on BST thin film. , 2014, , .		2
97	A Method of Side-lobe Suppression for Reactance Modulated Antennas. , 2020, , .		2
98	Vapor-Stripping and Encapsulating to Construct Particles with Time-Controlled Asymmetry and Anisotropy. Coatings, 2020, 10, 1248.	1.2	2
99	Design of a 1-to-4 Subarray Element for Wireless Subharmonic Injection in the THz Band. , 2021, , .		2
100	Human platelet lysate (hPL) alters the lineage commitment and paracrine functions of human mesenchymal stem cells via mitochondrial metabolism. Applied Materials Today, 2022, 26, 101264.	2.3	2
101	Hybrid Surface Nanostructures Using Chemical Vapor Deposition and Colloidal Self-Assembled Patterns for Human Mesenchymal Stem Cell Culture—A Preliminary Study. Coatings, 2022, 12, 311.	1.2	2
102	Human Platelet Lysate Supports Mouse Skeletal Myoblast Growth but Suppresses Cell Fusion on Nanogrooves. ACS Applied Bio Materials, 2020, 3, 3594-3604.	2.3	1
103	Manufacture of Chemically Modified Antibacterial Surfaces. , 2015, , 61-88.		1
104	An S-band defferential power divider based on Defected Ground Structure. , 2014, , .		0
105	A 2.45GHz high-power and high-efficiency rectifier based on a power-dividing network. , 2014, , .		0
106	Colloidal Crystals: Guiding the Dewetting of Thin Polymer Films by Colloidal Imprinting (Adv. Mater.) Tj ETQq0 0	0 rgBT /0	verlock 10 Tf
107	Chemoradiotherapy for Inoperable Carotid Body Leiomyosarcoma: A Case Report and Review of Literature. Frontiers in Oncology, 2020, 10, 599403.	1.3	0

Guiding Stem Cell Differentiation and Proliferation Activities Based on Nanometer-Thick Functionalized Poly-p-xylylene Coatings. Coatings, 2021, 11, 582.