

Peng-yuan Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1420479/publications.pdf>

Version: 2024-02-01

108
papers

3,366
citations

172386

29
h-index

168321

53
g-index

114
all docs

114
docs citations

114
times ranked

5062
citing authors

#	ARTICLE	IF	CITATIONS
1	The adipokine orosomucoid alleviates adipose tissue fibrosis via the AMPK pathway. <i>Acta Pharmacologica Sinica</i> , 2022, 43, 367-375.	2.8	13
2	Harnessing Focal Adhesions to Accelerate p53 Accumulation and Anoikis of A549 Cells Using Colloidal Self-Assembled Patterns (cSAPs). <i>ACS Applied Bio Materials</i> , 2022, 5, 322-333.	2.3	6
3	Topical application of TAK1 inhibitor encapsulated by gelatin particle alleviates corneal neovascularization. <i>Theranostics</i> , 2022, 12, 657-674.	4.6	7
4	Human platelet lysate (hPL) alters the lineage commitment and paracrine functions of human mesenchymal stem cells via mitochondrial metabolism. <i>Applied Materials Today</i> , 2022, 26, 101264.	2.3	2
5	Hybrid Surface Nanostructures Using Chemical Vapor Deposition and Colloidal Self-Assembled Patterns for Human Mesenchymal Stem Cell Culture—A Preliminary Study. <i>Coatings</i> , 2022, 12, 311.	1.2	2
6	Combinatorial Approach of Binary Colloidal Crystals and CRISPR Activation to Improve Induced Pluripotent Stem Cell Differentiation into Neurons. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 8669-8679.	4.0	10
7	Correlation between drug sensitivity profiles of circulating tumour cell-derived organoids and clinical treatment response in patients with pancreatic ductal adenocarcinoma. <i>European Journal of Cancer</i> , 2022, 166, 208-218.	1.3	16
8	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. <i>Carbohydrate Polymers</i> , 2021, 252, 117219.	5.1	24
9	Approach for in vivo delivery of CRISPR/Cas system: a recent update and future prospect. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 2683-2708.	2.4	29
10	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> . <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 20982-20994.	4.0	7
11	Programming Colloidal Self-Assembled Patterns (cSAPs) into Thermo-Responsive Hybrid Surfaces for Controlling Human Stem Cells and Macrophages. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 18563-18580.	4.0	8
12	Expansion of Rare Cancer Cells into Tumoroids for Therapeutic Regimen and Cancer Therapy. <i>Advanced Therapeutics</i> , 2021, 4, 2100017.	1.6	3
13	Guiding Stem Cell Differentiation and Proliferation Activities Based on Nanometer-Thick Functionalized Poly-p-xylylene Coatings. <i>Coatings</i> , 2021, 11, 582.	1.2	0
14	Albumin-stabilized layered double hydroxide nanoparticles synergized combination chemotherapy for colorectal cancer treatment. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021, 34, 102369.	1.7	21
15	Methods for in vitro CRISPR/CasRx-Mediated RNA Editing. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 667879.	1.8	12
16	Vapor-phased fabrication and modulation of cell-laden scaffolding materials. <i>Nature Communications</i> , 2021, 12, 3413.	5.8	11
17	Design of a 1-to-4 Subarray Element for Wireless Subharmonic Injection in the THz Band. , 2021, , .		2
18	Colloidal Self-Assembled Patterns Maintain the Pluripotency and Promote the Hemopoietic Potential of Human Embryonic Stem Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 771773.	1.8	4

#	ARTICLE	IF	CITATIONS
19	Computational and in vitro validation of cardiogenic induction of quercetin on adipose-derived mesenchymal stromal cells through the inhibition of Wnt and non-Smad-dependent TGF β ² pathways. <i>Journal of Cellular Biochemistry</i> , 2021, , .	1.2	3
20	Ex Vivo Expanded Circulating Tumor Cells for Clinical Anti-Cancer Drug Prediction in Patients with Head and Neck Cancer. <i>Cancers</i> , 2021, 13, 6076.	1.7	22
21	Facile Route of Fabricating Long-Term Microbicidal Silver Nanoparticle Clusters against Shiga Toxin-Producing <i>Escherichia coli</i> O157:H7 and <i>Candida auris</i> . <i>Coatings</i> , 2020, 10, 28.	1.2	10
22	Conformationally tuned antibacterial oligomers target the peptidoglycan of Gram-positive bacteria. <i>Journal of Colloid and Interface Science</i> , 2020, 580, 850-862.	5.0	24
23	A Method of Side-lobe Suppression for Reactance Modulated Antennas. , 2020, , .		2
24	Ex Vivo Expansion and Drug Sensitivity Profiling of Circulating Tumor Cells from Patients with Small Cell Lung Cancer. <i>Cancers</i> , 2020, 12, 3394.	1.7	30
25	Parylene-Based Porous Scaffold with Functionalized Encapsulation of Platelet-Rich Plasma and Living Stem Cells for Tissue Engineering Applications. <i>ACS Applied Bio Materials</i> , 2020, 3, 7193-7201.	2.3	7
26	Vapor-Stripping and Encapsulating to Construct Particles with Time-Controlled Asymmetry and Anisotropy. <i>Coatings</i> , 2020, 10, 1248.	1.2	2
27	Human Platelet Lysate Supports Mouse Skeletal Myoblast Growth but Suppresses Cell Fusion on Nanogrooves. <i>ACS Applied Bio Materials</i> , 2020, 3, 3594-3604.	2.3	1
28	Harnessing the perinuclear actin cap (pnAC) to influence nanocarrier trafficking and gene transfection efficiency in skeletal myoblasts using nanopillars. <i>Acta Biomaterialia</i> , 2020, 111, 221-231.	4.1	6
29	An injectable, self-assembled multicellular microsphere with the incorporation of fibroblast-derived extracellular matrix for therapeutic angiogenesis. <i>Materials Science and Engineering C</i> , 2020, 113, 110961.	3.8	11
30	Binary Colloidal Crystal (BCC) Substrates for Controlling the Fate of Mouse Embryonic Stem Cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 194, 111133.	2.5	3
31	MicroRNA124-IL6R Mediates the Effect of Nicotine in Inflammatory Bowel Disease by Shifting Th1/Th2 Balance Toward Th1. <i>Frontiers in Immunology</i> , 2020, 11, 235.	2.2	16
32	Decoration of Material Surfaces with Complex Physicochemical Signals for Biointerface Applications. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 1836-1851.	2.6	19
33	Gene Therapy Intervention in Neovascular Eye Disease: A Recent Update. <i>Molecular Therapy</i> , 2020, 28, 2120-2138.	3.7	38
34	Electronically controlled beam steering leaky wave antenna in nematic liquid crystal technology. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2020, 30, e22188.	0.8	10
35	Chemoradiotherapy for Inoperable Carotid Body Leiomyosarcoma: A Case Report and Review of Literature. <i>Frontiers in Oncology</i> , 2020, 10, 599403.	1.3	0
36	A Liquid Crystal Based Dynamic Metasurface for Beam Steering and Computational Imaging. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
37	A single-cell transcriptome atlas of the adult human retina. <i>EMBO Journal</i> , 2019, 38, e100811.	3.5	185
38	Tunable Chemical and Topographic Patterns Based on Binary Colloidal Crystals (BCCs) to Modulate MG63 Cell Growth. <i>Advanced Functional Materials</i> , 2019, 29, 1904262.	7.8	18
39	Vapor-Deposited Reactive Coating with Chemically and Topographically Erasable Properties. <i>Polymers</i> , 2019, 11, 1595.	2.0	3
40	Role of acute-phase protein ORM in a mice model of ischemic stroke. <i>Journal of Cellular Physiology</i> , 2019, 234, 20533-20545.	2.0	30
41	Mangrove Inspired Anti-Corrosion Coatings. <i>Coatings</i> , 2019, 9, 725.	1.2	13
42	Mechanical Properties of Strontium "Hardystonite" Gahnite Coating Formed by Atmospheric Plasma Spray. <i>Coatings</i> , 2019, 9, 759.	1.2	9
43	A Fibrous Hybrid Patch Couples Cell-Derived Matrix and Poly(<i>l</i> -lactide-co- <i>l</i> -caprolactone) for Endothelial Cells Delivery and Skin Wound Repair. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 900-910.	2.6	16
44	Binary Colloidal Crystals Drive Spheroid Formation and Accelerate Maturation of Human-Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3679-3689.	4.0	25
45	Controlled Attachment of <i>Pseudomonas aeruginosa</i> with Binary Colloidal Crystal-Based Topographies. <i>Small</i> , 2018, 14, e1703574.	5.2	15
46	Beam Switching Antenna Based on a Reconfigurable Cascaded Feeding Network. <i>IEEE Transactions on Antennas and Propagation</i> , 2018, 66, 627-635.	3.1	17
47	Binary Colloidal Crystal Layers as Platforms for Surface Patterning of Puroindoline-Based Antimicrobial Peptides. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2264-2274.	4.0	19
48	Fibroblast Responses Toward Colloidal Assembles and Plasma Polymer Coating. <i>IEEE Nanotechnology Magazine</i> , 2018, 17, 385-388.	1.1	5
49	Estrogen weakens muscle endurance via estrogen receptor-p38 MAPK-mediated orosomuroid (ORM) suppression. <i>Experimental and Molecular Medicine</i> , 2018, 50, e463-e463.	3.2	19
50	Protective cerebrovascular effects of hydroxysafflor yellow A (HSYA) on ischemic stroke. <i>European Journal of Pharmacology</i> , 2018, 818, 604-609.	1.7	52
51	Ocular Drug Delivery: Role of Degradable Polymeric Nanocarriers for Ophthalmic Application. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2830.	1.8	154
52	New Combination/Application of Polymer-Based Nanoparticles for Biomedical Engineering. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1078, 271-290.	0.8	4
53	Minimal attachment of <i>Pseudomonas aeruginosa</i> to DNA modified surfaces. <i>Biointerphases</i> , 2018, 13, 06E405.	0.6	12
54	Numerical investigation of nematic liquid crystals in the THz band based on EIT sensor. <i>Optics Express</i> , 2018, 26, 12318.	1.7	21

#	ARTICLE	IF	CITATIONS
55	Topographical Modulation of Pluripotency and Differentiation of Human Embryonic Stem Cells. IEEE Nanotechnology Magazine, 2018, 17, 381-384.	1.1	8
56	The influence of PEG-thiol derivatives on controlling cellular and bacterial interactions with gold surfaces. Applied Surface Science, 2018, 462, 980-990.	3.1	18
57	Binary colloidal crystals (BCCs): Interactions, fabrication, and applications. Advances in Colloid and Interface Science, 2018, 261, 102-127.	7.0	33
58	Periodic Leaky-Wave Antenna Based on Complementary Pair of Radiation Elements. IEEE Transactions on Antennas and Propagation, 2018, 66, 4503-4515.	3.1	61
59	c-Jun enhances intestinal epithelial restitution after wounding by increasing phospholipase C- β 1 transcription. American Journal of Physiology - Cell Physiology, 2017, 312, C367-C375.	2.1	14
60	Muscle fatigue: general understanding and treatment. Experimental and Molecular Medicine, 2017, 49, e384-e384.	3.2	340
61	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
62	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
63	Nicotine protects against DSS colitis through regulating microRNA-124 and STAT3. Journal of Molecular Medicine, 2017, 95, 221-233.	1.7	43
64	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
65	Tuning the Density of Poly(ethylene glycol) Chains to Control Mammalian Cell and Bacterial Attachment. Polymers, 2017, 9, 343.	2.0	20
66	A Novel Approach to Quantitatively Assess the Uniformity of Binary Colloidal Crystal Assemblies. Crystals, 2016, 6, 84.	1.0	3
67	miRNA-124 in Immune System and Immune Disorders. Frontiers in Immunology, 2016, 7, 406.	2.2	74
68	ORM Promotes Skeletal Muscle Glycogen Accumulation via CCR5-Activated AMPK Pathway in Mice. Frontiers in Pharmacology, 2016, 7, 302.	1.6	17
69	Rapid Self-Assembly of Shaped Microtiles into Large, Close-Packed Crystalline Monolayers on Solid Surfaces. Small, 2016, 12, 1309-1314.	5.2	15
70	Electrically controlled leaky wave antenna with wide-angle scanning based on liquid crystal. , 2016, , .		3
71	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
72	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

#	ARTICLE	IF	CITATIONS
73	MicroRNA-124 negatively regulates LPS-induced TNF- α production in mouse macrophages by decreasing protein stability. <i>Acta Pharmacologica Sinica</i> , 2016, 37, 889-897.	2.8	40
74	Modulation of human multipotent and pluripotent stem cells using surface nanotopographies and surface-immobilised bioactive signals: A review. <i>Acta Biomaterialia</i> , 2016, 45, 31-59.	4.1	80
75	Binary colloidal crystals (BCCs) as a feeder-free system to generate human induced pluripotent stem cells (hiPSCs). <i>Scientific Reports</i> , 2016, 6, 36845.	1.6	32
76	Enhanced attachment of human mesenchymal stem cells on nanograined titania surfaces. <i>RSC Advances</i> , 2016, 6, 55825-55833.	1.7	13
77	Colloidal Crystals: Guiding the Dewetting of Thin Polymer Films by Colloidal Imprinting (<i>Adv. Mater.</i>) Tj ETQq1 1 0.784314 rgBT /Overlo	1.9	5
78	Colloidal crystal based plasma polymer patterning to control <i>Pseudomonas aeruginosa</i> attachment to surfaces. <i>Biointerphases</i> , 2015, 10, 04A309.	0.6	12
79	Response of MG63 osteoblast-like cells to ordered nanotopographies fabricated using colloidal self-assembly and glancing angle deposition. <i>Biointerphases</i> , 2015, 10, 04A306.	0.6	13
80	Guiding the Dewetting of Thin Polymer Films by Colloidal Imprinting. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500068.	1.9	5
81	Ardipusilloside-I Metabolites from Human Intestinal Bacteria and Their Antitumor Activity. <i>Molecules</i> , 2015, 20, 20569-20581.	1.7	9
82	Modulation of Human Mesenchymal Stem Cell Behavior on Ordered Tantalum Nanotopographies Fabricated Using Colloidal Lithography and Glancing Angle Deposition. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4979-4989.	4.0	59
83	Self-assembled binary colloidal crystal monolayers as cell culture substrates. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2545-2552.	2.9	49
84	Screening rat mesenchymal stem cell attachment and differentiation on surface chemistries using plasma polymer gradients. <i>Acta Biomaterialia</i> , 2015, 11, 58-67.	4.1	44
85	Manufacture of Chemically Modified Antibacterial Surfaces. , 2015, , 61-88.		1
86	An S-band defferential power divider based on Defected Ground Structure. , 2014, , .		0
87	33 W quasi-continuous-wave narrow-band sodium D 2a laser by sum-frequency generation in LBO. <i>Chinese Physics B</i> , 2014, 23, 094208.	0.7	19
88	An S-band left-handed tunable phase shifter based on BST thin film. , 2014, , .		2
89	Comparison of laser induced thermal fracture between polycrystalline ceramic and crystal Nd:YAG. <i>Optics Letters</i> , 2014, 39, 1965.	1.7	19
90	Stimulation of autophagic activity in human glioma cells by anti-proliferative ardisipusilloside I isolated from <i>Ardisia pusilla</i> . <i>Life Sciences</i> , 2014, 110, 15-22.	2.0	18

#	ARTICLE	IF	CITATIONS
91	A 2.45GHz high-power and high-efficiency rectifier based on a power-dividing network. , 2014, , .		0
92	Modulation of the proliferation and matrix synthesis of chondrocytes by dynamic compression on genipin-crosslinked chitosan/collagen scaffolds. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2013, 24, 507-519.	1.9	19
93	Grooved PLGA films incorporated with RGD/MIGSR peptides for potential application on skeletal muscle tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 110, 88-95.	2.5	56
94	Modulation of cell attachment and collagen production of anterior cruciate ligament cells via submicron grooves/ridges structures with different cell affinity. <i>Biotechnology and Bioengineering</i> , 2013, 110, 327-337.	1.7	30
95	High-throughput characterisation of osteogenic differentiation of human mesenchymal stem cells using pore size gradients on porous alumina. <i>Biomaterials Science</i> , 2013, 1, 924.	2.6	22
96	Screening the attachment and spreading of bone marrow-derived and adipose-derived mesenchymal stem cells on porous silicon gradients. <i>RSC Advances</i> , 2012, 2, 12857.	1.7	31
97	Electrochemistry-enabled fabrication of orthogonal nanotopography and surface chemistry gradients for high-throughput screening. <i>Lab on A Chip</i> , 2012, 12, 1480.	3.1	37
98	Clicking dendritic peptides onto single walled carbon nanotubes. <i>RSC Advances</i> , 2012, 2, 1289-1291.	1.7	10
99	Modulation of osteogenic, adipogenic and myogenic differentiation of mesenchymal stem cells by submicron grooved topography. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 3015-3028.	1.7	92
100	Screening Mesenchymal Stem Cell Attachment and Differentiation on Porous Silicon Gradients. <i>Advanced Functional Materials</i> , 2012, 22, 3414-3423.	7.8	109
101	The roles of RGD and grooved topography in the adhesion, morphology, and differentiation of C2C12 skeletal myoblasts. <i>Biotechnology and Bioengineering</i> , 2012, 109, 2104-2115.	1.7	63
102	Screening of rat mesenchymal stem cell behaviour on polydimethylsiloxane stiffness gradients. <i>Acta Biomaterialia</i> , 2012, 8, 519-530.	4.1	126
103	Mesenchymal stem cell attachment to peptide density gradients on porous silicon generated by electrografting. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 1440-1445.	0.8	33
104	Modulation of alignment, elongation and contraction of cardiomyocytes through a combination of nanotopography and rigidity of substrates. <i>Acta Biomaterialia</i> , 2011, 7, 3285-3293.	4.1	158
105	Modulation of alignment and differentiation of skeletal myoblasts by submicron ridges/grooves surface structure. <i>Biotechnology and Bioengineering</i> , 2010, 106, 285-294.	1.7	95
106	Dynamic compression modulates chondrocyte proliferation and matrix biosynthesis in chitosan/gelatin scaffolds. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 91B, 143-152.	1.6	45
107	Modulation of Gene Expression of Rabbit Chondrocytes by Dynamic Compression in Polyurethane Scaffolds with Collagen Gel Encapsulation. <i>Journal of Biomaterials Applications</i> , 2009, 23, 347-366.	1.2	26
108	Fibronectin and culture temperature modulate the efficacy of an avidin-biotin binding system for chondrocyte adhesion and growth on biodegradable polymers. <i>Biotechnology and Bioengineering</i> , 2007, 98, 498-507.	1.7	10