

# Xiu-mei Wang

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/4934644/xiu-mei-wang-publications-by-year.pdf>  
**Version:** 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.  
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

133 papers	2,975 citations	28 h-index	50 g-index
147 ext. papers	3,846 ext. citations	6.2 avg, IF	5.29 L-index

#	Paper	IF	Citations
133	Biphasic mineralized collagen-based composite scaffold for cranial bone regeneration in developing sheep.. <i>International Journal of Energy Production and Management</i> , <b>2022</b> , 9, rbac004	5.3	0
132	Histological Changes of Cervical Disc Tissue in Patients with Degenerative Ossification.. <i>Journal of Korean Neurosurgical Society</i> , <b>2022</b> ,	2.3	1
131	White matter regeneration induced by aligned fibrin nanofiber hydrogel contributes to motor functional recovery in canine T12 spinal cord injury.. <i>International Journal of Energy Production and Management</i> , <b>2022</b> , 9, rbab069	5.3	1
130	Biologically modified implantation as therapeutic bioabsorbable materials for bone defect repair.. <i>Regenerative Therapy</i> , <b>2022</b> , 19, 9-23	3.7	4
129	Aligned fibrin/functionalized self-assembling peptide interpenetrating nanofiber hydrogel presenting multi-cues promotes peripheral nerve functional recovery. <i>Bioactive Materials</i> , <b>2022</b> , 8, 529-544	16.7	6
128	Stem cell-homing hydrogel-based miR-29b-5p delivery promotes cartilage regeneration by suppressing senescence in an osteoarthritis rat model.. <i>Science Advances</i> , <b>2022</b> , 8, eabk0011	14.3	2
127	Liquid Crystal Elastomer Metamaterials with Giant Biaxial Thermal Shrinkage for Enhancing Skin Regeneration (Adv. Mater. 45/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170356	24	0
126	Structural alignment guides oriented migration and differentiation of endogenous neural stem cells for neurogenesis in brain injury treatment. <i>Biomaterials</i> , <b>2021</b> , 280, 121310	15.6	2
125	Characterization, antioxidant activity, and biocompatibility of selenium nanoparticle-loaded thermosensitive chitosan hydrogels. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2021</b> , 32, 1370-1385	3.5	1
124	Comparison of dynamic mechanical properties of dentin between deciduous and permanent teeth. <i>Connective Tissue Research</i> , <b>2021</b> , 62, 402-410	3.3	2
123	Neural tissue engineering: the influence of scaffold surface topography and extracellular matrix microenvironment. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 567-584	7.3	21
122	Influence of input signal on injection performance for needle driven piezoelectric micro-jet device. <i>Microsystem Technologies</i> , <b>2021</b> , 27, 2009-2019	1.7	0
121	All-purpose nanostrategy based on dose deposition enhancement, cell cycle arrest, DNA damage, and ROS production as prostate cancer radiosensitizer for potential clinical translation. <i>Nanoscale</i> , <b>2021</b> , 13, 14525-14537	7.7	1
120	Modified poly(methyl methacrylate) bone cement in the treatment of K�h�mell disease. <i>International Journal of Energy Production and Management</i> , <b>2021</b> , 8, rbaa051	5.3	2
119	Applications of 3D bioprinting in tissue engineering: advantages, deficiencies, improvements, and future perspectives. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 5385-5413	7.3	12
118	Hypoxia-Overcoming Breast-Conserving Treatment by Magnetothermodynamic Implant for a Localized Free-Radical Burst Combined with Hyperthermia. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 35484-35493	9.5	0
117	Construction and Characterizations of Antibacterial Surfaces Based on Self-Assembled Monolayer of Antimicrobial Peptides (Pac-525) Derivatives on Gold. <i>Coatings</i> , <b>2021</b> , 11, 1014	2.9	1

116	Liquid Crystal Elastomer Metamaterials with Giant Biaxial Thermal Shrinkage for Enhancing Skin Regeneration. <i>Advanced Materials</i> , <b>2021</b> , 33, e2106175	24	14
115	Chitosan Tubes Prefilled with Aligned Fibrin Nanofiber Hydrogel Enhance Facial Nerve Regeneration in Rabbits. <i>ACS Omega</i> , <b>2021</b> , 6, 26293-26301	3.9	1
114	A multi-modal delivery strategy for spinal cord regeneration using a composite hydrogel presenting biophysical and biochemical cues synergistically. <i>Biomaterials</i> , <b>2021</b> , 276, 120971	15.6	5
113	A fully biodegradable and self-electrified device for neuroregenerative medicine. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	26
112	Bioactive poly (methyl methacrylate) bone cement for the treatment of osteoporotic vertebral compression fractures. <i>Theranostics</i> , <b>2020</b> , 10, 6544-6560	12.1	14
111	A Customized Self-Assembling Peptide Hydrogel-Wrapped Stem Cell Factor Targeting Pulp Regeneration Rich in Vascular-Like Structures. <i>ACS Omega</i> , <b>2020</b> , 5, 16568-16574	3.9	10
110	Three-dimensional self-assembling nanofiber matrix rejuvenates aged/degenerative human tendon stem/progenitor cells. <i>Biomaterials</i> , <b>2020</b> , 236, 119802	15.6	18
109	Poly(methyl methacrylate) bone cement composited with mineralized collagen for osteoporotic vertebral compression fractures in extremely old patients. <i>International Journal of Energy Production and Management</i> , <b>2020</b> , 7, 29-34	5.3	7
108	Directional axonal regrowth induced by an aligned fibrin nanofiber hydrogel contributes to improved motor function recovery in canine L2 spinal cord injury. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2020</b> , 31, 40	4.5	12
107	Development of an antimicrobial peptide-loaded mineralized collagen bone scaffold for infective bone defect repair. <i>International Journal of Energy Production and Management</i> , <b>2020</b> , 7, 515-525	5.3	9
106	Mineralization of calcium phosphate controlled by biomimetic self-assembled peptide monolayers via surface electrostatic potentials. <i>Bioactive Materials</i> , <b>2020</b> , 5, 387-397	16.7	13
105	Mesenchymal Stem Cell-Laden Hydrogel Microfibers for Promoting Nerve Fiber Regeneration in Long-Distance Spinal Cord Transection Injury. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 1165-1175	5.5	15
104	Terminal Group Modification of Carbon Nanotubes Determines Covalently Bound Osteogenic Peptide Performance. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 865-878	5.5	5
103	Aligned chitosan nanofiber hydrogel grafted with peptides mimicking bioactive brain-derived neurotrophic factor and vascular endothelial growth factor repair long-distance sciatic nerve defects in rats. <i>Theranostics</i> , <b>2020</b> , 10, 1590-1603	12.1	46
102	Applications of Graphene and Its Derivatives in Bone Repair: Advantages for Promoting Bone Formation and Providing Real-Time Detection, Challenges and Future Prospects. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 7523-7551	7.3	20
101	Dual directions to address the problem of aseptic loosening via electrospun PLGA @ aspirin nanofiber coatings on titanium. <i>Biomaterials</i> , <b>2020</b> , 257, 120237	15.6	26
100	Self-assembling peptide hydrogels functionalized with LN- and BDNF- mimicking epitopes synergistically enhance peripheral nerve regeneration. <i>Theranostics</i> , <b>2020</b> , 10, 8227-8249	12.1	31
99	A comparison study between hybrid surgery and anterior cervical discectomy and fusion for the treatment of multilevel cervical spondylosis. <i>Bone and Joint Journal</i> , <b>2020</b> , 102-B, 981-996	5.6	4

98	Hierarchically electrospraying a PLGA@chitosan sphere-in-sphere composite microsphere for multi-drug-controlled release. <i>International Journal of Energy Production and Management</i> , <b>2020</b> , 7, 381-390	5.3	7
97	Tuning pore features of mineralized collagen/PCL scaffolds for cranial bone regeneration in a rat model. <i>Materials Science and Engineering C</i> , <b>2020</b> , 106, 110186	8.3	22
96	Enhanced angiogenesis by the hyaluronic acid hydrogels immobilized with a VEGF mimetic peptide in a traumatic brain injury model in rats. <i>International Journal of Energy Production and Management</i> , <b>2019</b> , 6, 325-334	5.3	19
95	Is cell transplantation a reliable therapeutic strategy for spinal cord injury in clinical practice? A systematic review and meta-analysis from 22 clinical controlled trials. <i>European Spine Journal</i> , <b>2019</b> , 28, 1092-1112	2.7	3
94	A novel and facile prepared wound dressing based on large expanded graphite worms. <i>Journal of Materials Research</i> , <b>2019</b> , 34, 490-499	2.5	1
93	Three-Dimensional Printing and Injectable Conductive Hydrogels for Tissue Engineering Application. <i>Tissue Engineering - Part B: Reviews</i> , <b>2019</b> , 25, 398-411	7.9	45
92	Sustained-release of sclerostin single-chain antibody fragments using poly(lactic-co-glycolic acid) microspheres for osteoporotic fracture repair. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2019</b> , 107, 1832-1840	5.4	3
91	Manganese-Based Magnetic Layered Double Hydroxide Nanoparticle: A pH-Sensitive and Concurrently Enhanced $T_1$ -Weighted Dual-Mode Magnetic Resonance Imaging Contrast Agent. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 2555-2562	5.5	22
90	Effect of in vitro collagen fibrillogenesis on Langmuir-Blodgett (LB) deposition for cellular behavior regulation. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 179, 48-55	6	4
89	3D Printing of Conductive Tissue Engineering Scaffolds Containing Polypyrrole Nanoparticles with Different Morphologies and Concentrations. <i>Materials</i> , <b>2019</b> , 12,	3.5	25
88	Osteogenesis effects of magnetic nanoparticles modified-porous scaffolds for the reconstruction of bone defect after bone tumor resection. <i>International Journal of Energy Production and Management</i> , <b>2019</b> , 6, 373-381	5.3	15
87	In Vitro Monolayer Culture of Dispersed Neural Stem Cells on the E-Cadherin-Based Substrate with Long-Term Stemness Maintenance. <i>ACS Omega</i> , <b>2019</b> , 4, 18136-18146	3.9	6
86	Synergistic effects of dual-presenting VEGF- and BDNF-mimetic peptide epitopes from self-assembling peptide hydrogels on peripheral nerve regeneration. <i>Nanoscale</i> , <b>2019</b> , 11, 19943-19958	7.7	30
85	Topographical patterning: characteristics of current processing techniques, controllable effects on material properties and co-cultured cell fate, updated applications in tissue engineering, and improvement strategies. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 7090-7109	7.3	16
84	Effect of nanoheat stimulation mediated by magnetic nanocomposite hydrogel on the osteogenic differentiation of mesenchymal stem cells. <i>Science China Life Sciences</i> , <b>2018</b> , 61, 448-456	8.5	21
83	A neurotrophic peptide-functionalized self-assembling peptide nanofiber hydrogel enhances rat sciatic nerve regeneration. <i>Nano Research</i> , <b>2018</b> , 11, 4599-4613	10	30
82	Doxorubicin-loaded Fe <sub>3</sub> O <sub>4</sub> @MoS <sub>2</sub> -PEG-2DG nanocubes as a theranostic platform for magnetic resonance imaging-guided chemo-photothermal therapy of breast cancer. <i>Nano Research</i> , <b>2018</b> , 11, 2470-2487	19.39	
81	Shape-, size- and structure-controlled synthesis and biocompatibility of iron oxide nanoparticles for magnetic theranostics. <i>Theranostics</i> , <b>2018</b> , 8, 3284-3307	12.1	172

80	An Antimicrobial Peptide-Loaded Gelatin/Chitosan Nanofibrous Membrane Fabricated by Sequential Layer-by-Layer Electrospinning and Electrospaying Techniques. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	44
79	Hierarchically aligned fibrin nanofiber hydrogel accelerated axonal regrowth and locomotor function recovery in rat spinal cord injury. <i>International Journal of Nanomedicine</i> , <b>2018</b> , 13, 2883-2895	7.3	49
78	A high-strength mineralized collagen bone scaffold for large-sized cranial bone defect repair in sheep. <i>International Journal of Energy Production and Management</i> , <b>2018</b> , 5, 283-292	5.3	20
77	Biomimetic Self-Assembling Peptide Hydrogels for Tissue Engineering Applications. <i>Advances in Experimental Medicine and Biology</i> , <b>2018</b> , 1064, 297-312	3.6	16
76	Biomimetic Nanohydroxyapatite Synthesized With/Without Tris-Buffered Simulated Body Fluid: A Comparative Analysis. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2018</b> , 18, 4423-4427	1.3	1
75	Culture of pyramidal neural precursors, neural stem cells, and fibroblasts on various biomaterials. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2018</b> , 29, 2168-2186	3.5	1
74	Increased recruitment of endogenous stem cells and chondrogenic differentiation by a composite scaffold containing bone marrow homing peptide for cartilage regeneration. <i>Theranostics</i> , <b>2018</b> , 8, 5039-5058	12.1	57
73	In Situ Articular Cartilage Regeneration through Endogenous Reparative Cell Homing Using a Functional Bone Marrow-Specific Scaffolding System. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 38715-38728	9.5	38
72	Bioactive Self-Assembling Peptide Hydrogels Functionalized with Brain-Derived Neurotrophic Factor and Nerve Growth Factor Mimicking Peptides Synergistically Promote Peripheral Nerve Regeneration. <i>ACS Biomaterials Science and Engineering</i> , <b>2018</b> , 4, 2994-3005	5.5	28
71	A novel honeycomb cell assay kit designed for evaluating horizontal cell migration in response to functionalized self-assembling peptide hydrogels. <i>Frontiers of Materials Science</i> , <b>2017</b> , 11, 13-21	2.5	
70	Effect of hierarchically aligned fibrin hydrogel in regeneration of spinal cord injury demonstrated by tractography: A pilot study. <i>Scientific Reports</i> , <b>2017</b> , 7, 40017	4.9	20
69	Prompt peripheral nerve regeneration induced by a hierarchically aligned fibrin nanofiber hydrogel. <i>Acta Biomaterialia</i> , <b>2017</b> , 55, 296-309	10.8	96
68	Comparison of rabbit rib defect regeneration with and without graft. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2017</b> , 28, 2	4.5	8
67	Mineralized Collagen-Based Composite Bone Materials for Cranial Bone Regeneration in Developing Sheep. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 1092-1099	5.5	23
66	Melatonin potentiates "inside-out" nano-thermotherapy in human breast cancer cells: a potential cancer target multimodality treatment based on melatonin-loaded nanocomposite particles. <i>International Journal of Nanomedicine</i> , <b>2017</b> , 12, 7351-7363	7.3	10
65	Injectable and Self-Healing Thermosensitive Magnetic Hydrogel for Asynchronous Control Release of Doxorubicin and Docetaxel to Treat Triple-Negative Breast Cancer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 33660-33673	9.5	106
64	Fabrication and characterization of aligned fibrin nanofiber hydrogel loaded with PLGA microspheres. <i>Macromolecular Research</i> , <b>2017</b> , 25, 528-533	1.9	6
63	Clinical observations of osteoporotic vertebral compression fractures by using mineralized collagen modified polymethylmethacrylate bone cement. <i>International Journal of Energy Production and Management</i> , <b>2017</b> , 4, 105-109	5.3	7

62 Nanobiomaterials: State of the Art **2017**, 3-35

61 Nonconventional Biosensors Based on Nanomembrane Materials **2017**, 241-257

1

60 Nanobiomaterials for Molecular Imaging **2017**, 259-279

1

59 Engineering Nanobiomaterials for Improved Tissue Regeneration **2017**, 281-304

1

58 Nanobiomaterials for Cancer Therapy **2017**, 305-327

1

57 Chemical Synthesis and Biomedical Applications of Iron Oxide Nanoparticles **2017**, 329-358

1

56 Gold Nanoparticles and Their Bioapplications **2017**, 359-377

55 Silicon-Based Nanoparticles for Drug Delivery **2017**, 379-402

54 Dendritic-Polymer-Based Nanomaterials for Cancer Diagnosis and Therapy **2017**, 403-428

53 Biosafety of Carbon-Based Nanoparticles and Nanocomposites **2017**, 431-458

1

52 Clinical Translation and Safety Regulation of Nanobiomaterials **2017**, 459-479

1

51 Metallic Nanobiomaterials **2017**, 39-63

2

50 Polymeric Nanobiomaterials **2017**, 65-84

49 Carbon-Based Nanobiomaterials **2017**, 85-104

1

48 Molecular Self-Assembly for Nanobiomaterial Fabrication **2017**, 107-141

47 Electrospraying and Electrospinning for Nanobiomaterial Fabrication **2017**, 143-163

3

46 Layer-by-Layer Technique: From Capsule Assembly to Application in Biological Domains **2017**, 165-187

45 Nanopatterning Techniques **2017**, 189-210

2



44	Surface Modification of Metallic Implants with Nanotubular Arrays via Electrochemical Anodization <b>2017</b> , 211-238		0
43	Regulation of RAW 264.7 macrophages behavior on anodic TiO <sub>2</sub> nanotubular arrays. <i>Frontiers of Materials Science</i> , <b>2017</b> , 11, 318-327	2.5	9
42	Fabrication of Antimicrobial Peptide-Loaded PLGA/Chitosan Composite Microspheres for Long-Acting Bacterial Resistance. <i>Molecules</i> , <b>2017</b> , 22,	4.8	29
41	Image-guided stem cells with functionalized self-assembling peptide nanofibers for treatment of acute myocardial infarction in a mouse model. <i>American Journal of Translational Research (discontinued)</i> , <b>2017</b> , 9, 3723-3731	3	10
40	Tanshinone IIA improves functional recovery in spinal cord injury-induced lower urinary tract dysfunction. <i>Neural Regeneration Research</i> , <b>2017</b> , 12, 267-275	4.5	6
39	Neurogenic differentiation of human umbilical cord mesenchymal stem cells on aligned electrospun polypyrrole/polylactide composite nanofibers with electrical stimulation. <i>Frontiers of Materials Science</i> , <b>2016</b> , 10, 260-269	2.5	18
38	Self-assembling peptide hydrogel scaffolds support stem cell-based hair follicle regeneration. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2016</b> , 12, 2115-2125	6	27
37	Comparison of bone regeneration in alveolar bone of dogs on mineralized collagen grafts with two composition ratios of nano-hydroxyapatite and collagen. <i>International Journal of Energy Production and Management</i> , <b>2016</b> , 3, 33-40	5.3	24
36	Clinical evaluations of mineralized collagen in the extraction sites preservation. <i>International Journal of Energy Production and Management</i> , <b>2016</b> , 3, 41-8	5.3	19
35	Osteogenic Differentiation Gene Expression Profiling of hMSCs on Hydroxyapatite and Mineralized Collagen. <i>Tissue Engineering - Part A</i> , <b>2016</b> , 22, 170-81	3.9	36
34	Repairing Skull Defects in Children with Nano-Hap/Collagen Composites: A Clinical Report of Thirteen Cases. <i>Translational Neuroscience and Clinics</i> , <b>2016</b> , 2, 31-37		2
33	Research trends in biomimetic medical materials for tissue engineering: commentary. <i>Biomaterials Research</i> , <b>2016</b> , 20, 8	16.8	5
32	Co-effects of matrix low elasticity and aligned topography on stem cell neurogenic differentiation and rapid neurite outgrowth. <i>Nanoscale</i> , <b>2016</b> , 8, 10252-65	7.7	80
31	Drug-nanoencapsulated PLGA microspheres prepared by emulsion electrospray with controlled release behavior. <i>International Journal of Energy Production and Management</i> , <b>2016</b> , 3, 309-317	5.3	22
30	BMP7-Based Functionalized Self-Assembling Peptides for Nucleus Pulposus Tissue Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 17076-87	9.5	38
29	Self-assembling peptide nanofiber hydrogels for central nervous system regeneration. <i>Frontiers of Materials Science</i> , <b>2015</b> , 9, 1-13	2.5	15
28	Self-assembled monolayers of alkanethiolates on surface chemistry groups in osteosarcoma cells. <i>Molecular Medicine Reports</i> , <b>2015</b> , 11, 975-81	2.9	4
27	A hybrid substratum for primary hepatocyte culture that enhances hepatic functionality with low serum dependency. <i>International Journal of Nanomedicine</i> , <b>2015</b> , 10, 2313-23	7.3	6

26	Mineralized Collagen: Rationale, Current Status, and Clinical Applications. <i>Materials</i> , <b>2015</b> , 8, 4733-4750	3.5	50
25	In Vivo Osteogenesis of Vancomycin Loaded Nanohydroxyapatite/Collagen/Calcium Sulfate Composite for Treating Infectious Bone Defect Induced by Chronic Osteomyelitis. <i>Journal of Nanomaterials</i> , <b>2015</b> , 2015, 1-8	3.2	9
24	Two competitive nucleation mechanisms of calcium carbonate biomineralization in response to surface functionality in low calcium ion concentration solution. <i>International Journal of Energy Production and Management</i> , <b>2015</b> , 2, 187-95	5.3	19
23	Novel Inorganic Gatekeeper Strategy for Obtaining Controlled Release in Mesoporous Silica Nanoparticles. <i>Chemistry Letters</i> , <b>2014</b> , 43, 854-856	1.7	2
22	Gene expression profiling and mechanism study of neural stem cells response to surface chemistry. <i>International Journal of Energy Production and Management</i> , <b>2014</b> , 1, 37-47	5.3	12
21	Enhancement of nano-hydroxyapatite bonding to dentin through a collagen/calcium dual-affinitive peptide for dentinal tubule occlusion. <i>Journal of Biomaterials Applications</i> , <b>2014</b> , 29, 268-277	2.9	22
20	Advances in the surface modification techniques of bone-related implants for last 10 years. <i>International Journal of Energy Production and Management</i> , <b>2014</b> , 1, 67-79	5.3	69
19	Directing neural stem cell fate with biomaterial parameters for injured brain regeneration. <i>Progress in Natural Science: Materials International</i> , <b>2013</b> , 23, 103-112	3.6	30
18	Calcium carbonate crystallization controlled by functional groups: A mini-review. <i>Frontiers of Materials Science</i> , <b>2013</b> , 7, 62-68	2.5	18
17	Functionalized self-assembling peptide nanofiber hydrogels mimic stem cell niche to control human adipose stem cell behavior in vitro. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 6798-805	10.8	88
16	Scaffolds for central nervous system tissue engineering. <i>Frontiers of Materials Science</i> , <b>2012</b> , 6, 1-25	2.5	36
15	Combined effect of ion concentration and functional groups on surface chemistry modulated CaCO <sub>3</sub> crystallization. <i>CrystEngComm</i> , <b>2012</b> , 14, 6647	3.3	25
14	Evolution of calcium phosphate crystallization on three functional group surfaces with the same surface density. <i>CrystEngComm</i> , <b>2012</b> , 14, 6695	3.3	16
13	In vivo studies on angiogenic activity of two designer self-assembling peptide scaffold hydrogels in the chicken embryo chorioallantoic membrane. <i>Nanoscale</i> , <b>2012</b> , 4, 2720-7	7.7	69
12	Hyaluronic acid-based scaffold for central neural tissue engineering. <i>Interface Focus</i> , <b>2012</b> , 2, 278-91	3.9	87
11	Hierarchical self-assembly of a collagen mimetic peptide (PKG) <sub>n</sub> (POG) <sub>2n</sub> (DOG) <sub>n</sub> via electrostatic interactions. <i>Frontiers of Materials Science</i> , <b>2011</b> , 5, 293-300	2.5	1
10	Cancer cell proliferation controlled by surface chemistry in its microenvironment. <i>Frontiers of Materials Science</i> , <b>2011</b> , 5, 412-416	2.5	4
9	Various fates of neuronal progenitor cells observed on several different chemical functional groups. <i>Frontiers of Materials Science</i> , <b>2011</b> , 5, 358-366	2.5	6



8	Injectable bone cement based on mineralized collagen. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2010</b> , 94, 72-9	3.5	16
7	The enamel softening and loss during early erosion studied by AFM, SEM and nanoindentation. <i>Biomedical Materials (Bristol)</i> , <b>2009</b> , 4, 015020	3.5	53
6	In vitro behavior of neural stem cells in response to different chemical functional groups. <i>Biomaterials</i> , <b>2009</b> , 30, 1036-44	15.6	157
5	Designer functionalized self-assembling peptide nanofiber scaffolds for growth, migration, and tubulogenesis of human umbilical vein endothelial cells. <i>Soft Matter</i> , <b>2008</b> , 4, 2388	3.6	107
4	Biological designer self-assembling peptide nanofiber scaffolds significantly enhance osteoblast proliferation, differentiation and 3-D migration. <i>PLoS ONE</i> , <b>2007</b> , 2, e190	3.7	353
3	Quantitatively Studying Nano-mechanical Properties within the Prism and Organic Sheath of Enamel. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 874, 1		1
2	Microstructure And Mechanical Properties Of Skeletal Bone In Gene-Mutated Stßseldtl28d And Wild-Type Zebrafish (Danio Rerio). <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 711, 1		
1	Crosstalk between PC12 cells and endothelial cells in an artificial neurovascular niche constructed by a dual-functionalized self-assembling peptide nanofiber hydrogel. <i>Nano Research</i> , 1	10	5