

# Xiao Yang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69 papers	1,584 citations	24 h-index	37 g-index
70 ext. papers	2,113 ext. citations	7.3 avg, IF	4.75 L-index

#	Paper	IF	Citations
69	Osteoporotic bone recovery by a bamboo-structured bioceramic with controlled release of hydroxyapatite nanoparticles.. <i>Bioactive Materials</i> , <b>2022</b> , 17, 379-393	16.7	1
68	Ability of a novel biomimetic titanium alloy cage in avoiding subsidence and promoting fusion: a goat spine model study. <i>Materials and Design</i> , <b>2022</b> , 213, 110361	8.1	1
67	Construction of a magnesium hydroxide/graphene oxide/hydroxyapatite composite coating on Mg-Ca-Zn-Ag alloy to inhibit bacterial infection and promote bone regeneration.. <i>Bioactive Materials</i> , <b>2022</b> , 18, 354-367	16.7	2
66	Heterostructured Metal-Organic Frameworks/Polydopamine Coating Endows Polyetheretherketone Implants with Multimodal Osteogenicity and Photoswitchable Disinfection.. <i>Advanced Healthcare Materials</i> , <b>2022</b> , e2200641	10.1	0
65	The Morphology of Hydroxyapatite Nanoparticles Regulates Cargo Recognition in Clathrin-Mediated Endocytosis. <i>Frontiers in Molecular Biosciences</i> , <b>2021</b> , 8, 627015	5.6	2
64	Role of Na, K-ATPase ion pump in osteoinduction. <i>Acta Biomaterialia</i> , <b>2021</b> , 129, 293-308	10.8	4
63	Machine learning on properties of multiscale multisource hydroxyapatite nanoparticles datasets with different morphologies and sizes. <i>Npj Computational Materials</i> , <b>2021</b> , 7,	10.9	4
62	A bioactive polymethylmethacrylate bone cement for prosthesis fixation in osteoporotic hip replacement surgery. <i>Materials and Design</i> , <b>2021</b> , 209, 109966	8.1	4
61	Accelerated Bone Regeneration by MOF Modified Multifunctional Membranes through Enhancement of Osteogenic and Angiogenic Performance. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2001369	10.1	15
60	A biomimetically hierarchical polyetherketoneketone scaffold for osteoporotic bone repair. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	24
59	A systematic assessment of hydroxyapatite nanoparticles used in the treatment of melanoma. <i>Nano Research</i> , <b>2020</b> , 13, 2106-2117	10	9
58	The optimized preparation of HA/L-TiO/D-TiO composite coating on porous titanium and its effect on the behavior osteoblasts. <i>International Journal of Energy Production and Management</i> , <b>2020</b> , 7, 505-514	5.3	7
57	Effects of Nanotopography Regulation and Silicon Doping on Angiogenic and Osteogenic Activities of Hydroxyapatite Coating on Titanium Implant. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 4171-4189	7.3	11
56	Stereolithography-Based Additive Manufacturing of High-Performance Osteoinductive Calcium Phosphate Ceramics by a Digital Light-Processing System. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 1787-1797	5.5	24
55	Positive role of calcium phosphate ceramics regulated inflammation in the osteogenic differentiation of mesenchymal stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2020</b> , 108, 1305-1320	5.4	6
54	Cellulose Nanocrystal Reinforced Collagen-Based Nanocomposite Hydrogel with Self-Healing and Stress-Relaxation Properties for Cell Delivery. <i>Biomacromolecules</i> , <b>2020</b> , 21, 2400-2408	6.9	31
53	Bioactive scaffolds based on collagen filaments with tunable physico-chemical and biological features. <i>Soft Matter</i> , <b>2020</b> , 16, 4540-4548	3.6	5

52	Role of N-Cadherin in a Niche-Mimicking Microenvironment for Chondrogenesis of Mesenchymal Stem Cells. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 3491-3501	5.5	8
51	Progress in Preparation of Silk Fibroin Microspheres for Biomedical Applications. <i>Pharmaceutical Nanotechnology</i> , <b>2020</b> , 8, 358-371	4	3
50	A bioceramic scaffold composed of strontium-doped three-dimensional hydroxyapatite whiskers for enhanced bone regeneration in osteoporotic defects. <i>Theranostics</i> , <b>2020</b> , 10, 1572-1589	12.1	36
49	Mineralized collagen-modified PMMA cement enhances bone integration and reduces fibrous encapsulation in the treatment of lumbar degenerative disc disease. <i>International Journal of Energy Production and Management</i> , <b>2020</b> , 7, 181-193	5.3	8
48	Complexation of Injectable Biphasic Calcium Phosphate with Phosphoserine-Presenting Dendrons with Enhanced Osteoregenerative Properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 37873-37884	9.5	6
47	The morphological effect of nanostructured hydroxyapatite coatings on the osteoinduction and osteogenic capacity of porous titanium. <i>Nanoscale</i> , <b>2020</b> , 12, 24085-24099	7.7	10
46	Regulation of surface micro/nano structure and composition of polyetheretherketone and their influence on the behavior of MC3T3-E1 pre-osteoblasts. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 5713-5724	7.3	16
45	Healing of osteoporotic bone defects by micro-/nano-structured calcium phosphate bioceramics. <i>Nanoscale</i> , <b>2019</b> , 11, 2721-2732	7.7	25
44	The in vitro and in vivo anti-melanoma effects of hydroxyapatite nanoparticles: influences of material factors. <i>International Journal of Nanomedicine</i> , <b>2019</b> , 14, 1177-1191	7.3	12
43	Application of hydroxyapatite nanoparticles in tumor-associated bone segmental defect. <i>Science Advances</i> , <b>2019</b> , 5, eaax6946	14.3	81
42	Viscoelasticity in natural tissues and engineered scaffolds for tissue reconstruction. <i>Acta Biomaterialia</i> , <b>2019</b> , 97, 74-92	10.8	45
41	Nano-Hydroxyapatite Coating Promotes Porous Calcium Phosphate Ceramic-Induced Osteogenesis Via BMP/Smad Signaling Pathway. <i>International Journal of Nanomedicine</i> , <b>2019</b> , 14, 7987-8000	7.3	30
40	Effect of process parameters on the microstructure and property of hydroxyapatite precursor powders and resultant sintered bodies. <i>International Journal of Applied Ceramic Technology</i> , <b>2019</b> , 16, 444-454	2	4
39	Osteoinductivity of Porous Biphasic Calcium Phosphate Ceramic Spheres with Nanocrystalline and Their Efficacy in Guiding Bone Regeneration. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 3722-3738	8.5	36
38	Comparison of osteointegration property between PEKK and PEEK: Effects of surface structure and chemistry. <i>Biomaterials</i> , <b>2018</b> , 170, 116-126	15.6	86
37	Application of osteoinductive calcium phosphate ceramics in children's endoscopic neurosurgery: report of five cases. <i>International Journal of Energy Production and Management</i> , <b>2018</b> , 5, 221-227	5.3	3
36	The directional migration and differentiation of mesenchymal stem cells toward vascular endothelial cells stimulated by biphasic calcium phosphate ceramic. <i>International Journal of Energy Production and Management</i> , <b>2018</b> , 5, 129-139	5.3	11
35	Immunization with Na/K ATPase DR peptide prevents bone loss in an ovariectomized rat osteoporosis model. <i>Biochemical Pharmacology</i> , <b>2018</b> , 156, 281-290	6	4

34	Fabrication and preliminary biological evaluation of a highly porous biphasic calcium phosphate scaffold with nano-hydroxyapatite surface coating. <i>Ceramics International</i> , <b>2018</b> , 44, 1304-1311	5.1	15
33	Injectable strontium-doped hydroxyapatite integrated with phosphoserine-tethered poly(epsilon-lysine) dendrons for osteoporotic bone defect repair. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 7974-7984	7.3	23
32	Antibacterial and biodegradable tissue nano-adhesives for rapid wound closure. <i>International Journal of Nanomedicine</i> , <b>2018</b> , 13, 5849-5863	7.3	27
31	A Universal and Ultrastable Mineralization Coating Bioinspired from Biofilms. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802730	15.6	24
30	Construction of surface HA/TiO coating on porous titanium scaffolds and its preliminary biological evaluation. <i>Materials Science and Engineering C</i> , <b>2017</b> , 70, 1047-1056	8.3	25
29	Regulation of the secretion of immunoregulatory factors of mesenchymal stem cells (MSCs) by collagen-based scaffolds during chondrogenesis. <i>Materials Science and Engineering C</i> , <b>2017</b> , 70, 983-991	8.3	32
28	Comparison of ectopic bone formation process induced by four calcium phosphate ceramics in mice. <i>Materials Science and Engineering C</i> , <b>2017</b> , 70, 1000-1010	8.3	40
27	Role of biphasic calcium phosphate ceramic-mediated secretion of signaling molecules by macrophages in migration and osteoblastic differentiation of MSCs. <i>Acta Biomaterialia</i> , <b>2017</b> , 51, 447-460	10.8	51
26	Bioinspired from Salivary Acquired Pellicle: A Multifunctional Coating for Biominerals. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 5663-5670	9.6	22
25	Bioinspired Peptide-Decorated Tannic Acid for in Situ Remineralization of Tooth Enamel: In Vitro and in Vivo Evaluation. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 3553-3562	5.5	16
24	Bone regeneration with micro/nano hybrid-structured biphasic calcium phosphate bioceramics at segmental bone defect and the induced immunoregulation of MSCs. <i>Biomaterials</i> , <b>2017</b> , 147, 133-144	15.6	103
23	Antibacterial and anti-biofouling coating on hydroxyapatite surface based on peptide-modified tannic acid. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2017</b> , 160, 136-143	6	31
22	Selective effect of hydroxyapatite nanoparticles on osteoporotic and healthy bone formation correlates with intracellular calcium homeostasis regulation. <i>Acta Biomaterialia</i> , <b>2017</b> , 59, 338-350	10.8	37
21	Bio-inspired peptide decorated dendrimers for a robust antibacterial coating on hydroxyapatite. <i>Polymer Chemistry</i> , <b>2017</b> , 8, 4264-4279	4.9	24
20	A multi-level comparative analysis of human femoral cortical bone quality in healthy cadavers and surgical safe margin of osteosarcoma patients. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2017</b> , 66, 111-118	4.1	8
19	Biochemical and Biophysical Cues in Matrix Design for Chronic and Diabetic Wound Treatment. <i>Tissue Engineering - Part B: Reviews</i> , <b>2017</b> , 23, 9-26	7.9	19
18	Bone mineral density, microarchitectural and mechanical alterations of osteoporotic rat bone under long-term whole-body vibration therapy. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2016</b> , 53, 341-349	4.1	17
17	Diabetic wound regeneration using peptide-modified hydrogels to target re-epithelialization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E5792-E5801	11.5	77

16	The positive role of macrophage secretion stimulated by BCP ceramic in the ceramic-induced osteogenic differentiation of pre-osteoblasts via Smad-related signaling pathways. <i>RSC Advances</i> , <b>2016</b> , 6, 102134-102141	3.7	11
15	Administration duration influences the effects of low-magnitude, high-frequency vibration on ovariectomized rat bone. <i>Journal of Orthopaedic Research</i> , <b>2016</b> , 34, 1147-57	3.8	12
14	Roles of calcium phosphate-mediated integrin expression and MAPK signaling pathways in the osteoblastic differentiation of mesenchymal stem cells. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 2280-2289	7.3	48
13	Effective in situ repair and bacteriostatic material of tooth enamel based on salivary acquired pellicle inspired oligomeric procyanidins. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 6761-6769	4.9	13
12	Processing and Properties of Bioactive Surface-Porous PEKK. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 977-986	5.5	38
11	Modifications of collagen-based biomaterials with immobilized growth factors or peptides. <i>Methods</i> , <b>2015</b> , 84, 44-52	4.6	21
10	Improvement of Oxidation Resistance of Remelted Zone in an Al <sub>2</sub> O <sub>3</sub> -Forming Austenitic Stainless Steel by Annealing. <i>Oxidation of Metals</i> , <b>2015</b> , 83, 273-290	1.6	3
9	Effective dentin restorative material based on phosphate-terminated dendrimer as artificial protein. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2015</b> , 128, 304-314	6	34
8	Recent developments and applications of bioinspired dendritic polymers. <i>Polymer Chemistry</i> , <b>2015</b> , 6, 668-680	4.9	55
7	Thermal degradation behavior and probable mechanism of aromatic poly(1,3,4-oxadiazole)s fibers. <i>Polymer Bulletin</i> , <b>2015</b> , 72, 1067-1080	2.4	14
6	Microfabricated perfusable cardiac biowire: a platform that mimics native cardiac bundle. <i>Lab on A Chip</i> , <b>2014</b> , 14, 869-82	7.2	98
5	Self-reduction and morphology control of gold nanoparticles by dendronized poly(amido amine)s for photothermal therapy. <i>RSC Advances</i> , <b>2014</b> , 4, 44872-44878	3.7	6
4	Administration of PTH and ibandronate increases ovariectomized rat compact bone viscoelasticity. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2013</b> , 22, 51-8	4.1	16
3	Positive alterations of viscoelastic and geometric properties in ovariectomized rat femurs with concurrent administration of ibandronate and PTH. <i>Bone</i> , <b>2013</b> , 52, 308-17	4.7	23
2	Ibandronate does not reduce the anabolic effects of PTH in ovariectomized rat tibiae: a microarchitectural and mechanical study. <i>Bone</i> , <b>2011</b> , 48, 1154-63	4.7	26
1	The morphology of hydroxyapatite nanoparticles regulates clathrin-mediated endocytosis in melanoma cells and resultant anti-tumor efficiency. <i>Nano Research</i> , <b>2011</b> , 4, 100-108	10	0