

Xiaohua Yu

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,286
citations

201674

27
h-index

214800

47
g-index

50
all docs

50
docs citations

50
times ranked

3617
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomaterials for Bone Regenerative Engineering. <i>Advanced Healthcare Materials</i> , 2015, 4, 1268-1285.	7.6	280
2	Injectable Polypeptide-Protein Hydrogels for Promoting Infected Wound Healing. <i>Advanced Functional Materials</i> , 2020, 30, 2001196.	14.9	186
3	Occurrence and estrogenic potency of eight bisphenol analogs in sewage sludge from the U.S. EPA targeted national sewage sludge survey. <i>Journal of Hazardous Materials</i> , 2015, 299, 733-739.	12.4	171
4	Fabrication and characterization of biomimetic collagen-apatite scaffolds with tunable structures for bone tissue engineering. <i>Acta Biomaterialia</i> , 2013, 9, 7308-7319.	8.3	149
5	Comparison of ozone and thermal hydrolysis combined with anaerobic digestion for municipal and pharmaceutical waste sludge with tetracycline resistance genes. <i>Water Research</i> , 2016, 99, 122-128.	11.3	99
6	Multilayered Inorganic Microparticles for Tunable Dual Growth Factor Delivery. <i>Advanced Functional Materials</i> , 2014, 24, 3082-3093.	14.9	81
7	Poly aspartic acid peptide-linked PLGA based nanoscale particles: Potential for bone-targeting drug delivery applications. <i>International Journal of Pharmaceutics</i> , 2014, 475, 547-557.	5.2	81
8	Controlled Dual Growth Factor Delivery From Microparticles Incorporated Within Human Bone Marrow-Derived Mesenchymal Stem Cell Aggregates for Enhanced Bone Tissue Engineering via Endochondral Ossification. <i>Stem Cells Translational Medicine</i> , 2016, 5, 206-217.	3.3	80
9	Biomimetic organic-inorganic hybrid hydrogel electrospinning periosteum for accelerating bone regeneration. <i>Materials Science and Engineering C</i> , 2020, 110, 110670.	7.3	67
10	Programmed Sustained Release of Recombinant Human Bone Morphogenetic Protein-2 and Inorganic Ion Composite Hydrogel as Artificial Periosteum. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 6840-6851.	8.0	64
11	Adhesive liposomes loaded onto an injectable, self-healing and antibacterial hydrogel for promoting bone reconstruction. <i>NPG Asia Materials</i> , 2019, 11, .	7.9	61
12	Covalent immobilization of collagen on titanium through polydopamine coating to improve cellular performances of MC3T3-E1 cells. <i>RSC Advances</i> , 2014, 4, 7185.	3.6	56
13	Nanostructured Mineral Coatings Stabilize Proteins for Therapeutic Delivery. <i>Advanced Materials</i> , 2017, 29, 1701255.	21.0	53
14	Endochondral Ossification in Critical-Sized Bone Defects via Readily Implantable Scaffold-Free Stem Cell Constructs. <i>Stem Cells Translational Medicine</i> , 2017, 6, 1644-1659.	3.3	53
15	An orthobiologics-free strategy for synergistic photocatalytic antibacterial and osseointegration. <i>Biomaterials</i> , 2021, 274, 120853.	11.4	52
16	Biomimetic CaP coating incorporated with parathyroid hormone improves the osseointegration of titanium implant. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 2177-2186.	3.6	48
17	Biomimetic collagen/apatite coating formation on Ti6Al4V substrates. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012, 100B, 871-881.	3.4	47
18	Dual non-viral gene delivery from microparticles within 3D high-density stem cell constructs for enhanced bone tissue engineering. <i>Biomaterials</i> , 2018, 161, 240-255.	11.4	46

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19	Iodine Immobilized Metal-Organic Framework for NIR-Triggered Antibacterial Therapy on Orthopedic Implants. <i>Small</i> , 2021, 17, e2102315.	10.0	44
20	Effect of ultrasonic and ozone pre-treatments on pharmaceutical waste activated sludge's solubilisation, reduction, anaerobic biodegradability and acute biological toxicity. <i>Bioresource Technology</i> , 2015, 192, 418-423.	9.6	40
21	Guiding Chondrogenesis and Osteogenesis with Mineral-Coated Hydroxyapatite and BMP-2 Incorporated within High-Density hMSC Aggregates for Bone Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 30-42.	5.2	40
22	Inorganic coatings for optimized non-viral transfection of stem cells. <i>Scientific Reports</i> , 2013, 3, 1567.	3.3	38
23	Incorporation of bovine serum albumin into biomimetic coatings on titanium with high loading efficacy and its release behavior. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 287-294.	3.6	36
24	A rapamycin-releasing perivascular polymeric sheath produces highly effective inhibition of intimal hyperplasia. <i>Journal of Controlled Release</i> , 2014, 191, 47-53.	9.9	34
25	Controlling the structural organization of regenerated bone by tailoring tissue engineering scaffold architecture. <i>Journal of Materials Chemistry</i> , 2012, 22, 9721.	6.7	32
26	Spatially Organized Differentiation of Mesenchymal Stem Cells within Biphasic Microparticle-Incorporated High Cell Density Osteochondral Tissues. <i>Advanced Healthcare Materials</i> , 2015, 4, 2306-2313.	7.6	29
27	Preparation and evaluation of parathyroid hormone incorporated CaP coating via a biomimetic method. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011, 97B, 345-354.	3.4	27
28	The effect of fresh bone marrow cells on reconstruction of mouse calvarial defect combined with calvarial osteoprogenitor cells and collagen-apatite scaffold. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2013, 7, 974-983.	2.7	27
29	Mineral particles modulate osteo-chondrogenic differentiation of embryonic stem cell aggregates. <i>Acta Biomaterialia</i> , 2016, 29, 42-51.	8.3	25
30	Single-dose mRNA therapy via biomaterial-mediated sequestration of overexpressed proteins. <i>Science Advances</i> , 2020, 6, .	10.3	24
31	A trilogy antimicrobial strategy for multiple infections of orthopedic implants throughout their life cycle. <i>Bioactive Materials</i> , 2021, 6, 1853-1866.	15.6	24
32	How does the pathophysiological context influence delivery of bone growth factors?. <i>Advanced Drug Delivery Reviews</i> , 2015, 84, 68-84.	13.7	21
33	Spatiotemporal regulation of angiogenesis/osteogenesis emulating natural bone healing cascade for vascularized bone formation. <i>Journal of Nanobiotechnology</i> , 2021, 19, 420.	9.1	21
34	VEGF-loaded mineral-coated microparticles improve bone repair and are associated with increased expression of <i>epo</i> and <i>RUNX2</i> in murine non-unions. <i>Journal of Orthopaedic Research</i> , 2019, 37, 821-831.	2.3	20
35	Functionalization of microparticles with mineral coatings enhances non-viral transfection of primary human cells. <i>Scientific Reports</i> , 2017, 7, 14211.	3.3	19
36	Vascular Derived ECM Improves Therapeutic Index of BMP-2 and Drives Vascularized Bone Regeneration. <i>Small</i> , 2022, 18, e2107991.	10.0	16

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37	3-D scaffold platform for optimized non-viral transfection of multipotent stem cells. <i>Journal of Materials Chemistry B</i> , 2014, 2, 8186-8193.	5.8	13
38	A microparticle approach for non-viral gene delivery within 3D human mesenchymal stromal cell aggregates. <i>Acta Biomaterialia</i> , 2019, 95, 408-417.	8.3	13
39	Reversing the imbalance in bone homeostasis via sustained release of SIRT-1 agonist to promote bone healing under osteoporotic condition. <i>Bioactive Materials</i> , 2023, 19, 429-443.	15.6	12
40	Osteotropic Nanoscale Drug Delivery System via a Single Aspartic Acid as the Bone-Targeting Moiety. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 1747-1752.	0.9	11
41	Modulation of host osseointegration during bone regeneration by controlling exogenous stem cell differentiation using a material approach. <i>Biomaterials Science</i> , 2014, 2, 242-251.	5.4	10
42	Transformation of acellular dermis matrix with dicalcium phosphate into 3D porous scaffold for bone regeneration. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2021, 32, 2071-2087.	3.5	8
43	Cellular Performance Comparison of Biomimetic Calcium Phosphate Coating and Alkaline-Treated Titanium Surface. <i>BioMed Research International</i> , 2013, 2013, 1-9.	1.9	7
44	Tumor Customized 2D Supramolecular Nanodiscs for Ultralong Tumor Retention and Precise Photothermal Therapy of Highly Heterogeneous Cancers. <i>Small</i> , 2022, 18, e2200179.	10.0	6
45	Mineral binding peptides with enhanced binding stability in serum. <i>Biomaterials Science</i> , 2017, 5, 663-668.	5.4	4
46	Highly active biological dermal acellular tissue scaffold composite with human bone powder for bone regeneration. <i>Materials and Design</i> , 2021, 209, 109963.	7.0	4
47	Enhancing the Surface Properties of a Bioengineered Anterior Cruciate Ligament Matrix for Use with Point-of-Care Stem Cell Therapy. <i>Engineering</i> , 2021, 7, 153-161.	6.7	4
48	Utility of Air Bladder-Derived Nanostructured ECM for Tissue Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 553529.	4.1	1
49	Iodine Immobilized Metal-Organic Framework for NIR-Triggered Antibacterial Therapy on Orthopedic Implants (<i>Small</i> 35/2021). <i>Small</i> , 2021, 17, 2170180.	10.0	1
50	Integrity of the ECM Influences the Bone Regenerative Property of ECM/Dicalcium Phosphate Composite Scaffolds. <i>ACS Applied Bio Materials</i> , 0, , .	4.6	1