Xuliang Deng

List of Publications by Year
in descending order

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81	3,094	147801 31	168389 53
papers	citations	h-index	g-index

85	85	85	4293
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanocomposite Membranes Enhance Bone Regeneration Through Restoring Physiological Electric Microenvironment. ACS Nano, 2016, 10, 7279-7286.	14.6	208
2	Poly-L-lactic acid/hydroxyapatite hybrid membrane for bone tissue regeneration. Journal of Biomedical Materials Research - Part A, 2007, 82A, 445-454.	4.0	189
3	Gelatin nanofibrous membrane fabricated by electrospinning of aqueous gelatin solution for guided tissue regeneration. Journal of Biomedical Materials Research - Part A, 2009, 90A, 671-679.	4.0	187
4	Detection of SARSâ€CoVâ€2 in saliva and characterization of oral symptoms in COVIDâ€19 patients. Cell Proliferation, 2020, 53, e12923.	5.3	168
5	Multiscale engineered artificial tooth enamel. Science, 2022, 375, 551-556.	12.6	138
6	Directing Stem Cell Differentiation via Electrochemical Reversible Switching between Nanotubes and Nanotips of Polypyrrole Array. ACS Nano, 2017, 11, 5915-5924.	14.6	89
7	Biomimetic Remineralization of Demineralized Dentine Using Scaffold of CMC/ACP Nanocomplexes in an In Vitro Tooth Model of Deep Caries. PLoS ONE, 2015, 10, e0116553.	2.5	88
8	The effect of poly (L-lactic acid) nanofiber orientation on osteogenic responses of human osteoblast-like MG63 cells. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 600-609.	3.1	86
9	Characterization of the salivary microbiome in people with obesity. PeerJ, 2018, 6, e4458.	2.0	75
10	Builtâ€In Electric Fields Dramatically Induce Enhancement of Osseointegration. Advanced Functional Materials, 2017, 27, 1703771.	14.9	73
11	Chirality Controls Mesenchymal Stem Cell Lineage Diversification through Mechanoresponses. Advanced Materials, 2019, 31, e1900582.	21.0	73
12	Restoration of electrical microenvironment enhances bone regeneration under diabetic conditions by modulating macrophage polarization. Bioactive Materials, 2021, 6, 2029-2038.	15.6	72
13	Role of YAP/TAZ in Cell Lineage Fate Determination and Related Signaling Pathways. Frontiers in Cell and Developmental Biology, 2020, 8, 735.	3.7	71
14	Lower Extent but Similar Rhythm of Osteogenic Behavior in hBMSCs Cultured on Nanofibrous Scaffolds versus Induced with Osteogenic Supplement. ACS Nano, 2013, 7, 6928-6938.	14.6	68
15	Controlling Enamel Remineralization by Amyloidâ€Like Amelogenin Mimics. Advanced Materials, 2020, 32, e2002080.	21.0	66
16	Graphene oxide bulk material reinforced by heterophase platelets with multiscale interface crosslinking. Nature Materials, 2022, 21, 1121-1129.	27.5	66
17	Selenium nanoparticles incorporated into titania nanotubes inhibit bacterial growth and macrophage proliferation. Nanoscale, 2016, 8, 15783-15794.	5.6	65
18	Oriented and Ordered Biomimetic Remineralization of the Surface of Demineralized Dental Enamel Using HAP@ACP Nanoparticles Guided by Glycine. Scientific Reports, 2017, 7, 40701.	3.3	64

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19	Guided bone regeneration with tripolyphosphate cross-linked asymmetric chitosan membrane. Journal of Dentistry, 2014, 42, 1603-1612.	4.1	61
20	An overview of signaling pathways regulating YAP/TAZ activity. Cellular and Molecular Life Sciences, 2021, 78, 497-512.	5.4	59
21	Rapid biomimetic remineralization of the demineralized enamel surface using nano-particles of amorphous calcium phosphate guided by chimaeric peptides. Dental Materials, 2017, 33, 1217-1228.	3.5	57
22	Improved performance of Bis-GMA/TEGDMA dental composites by net-like structures formed from SiO 2 nanofiber fillers. Materials Science and Engineering C, 2016, 59, 464-470.	7.3	56
23	Mitochondria transfer enhances proliferation, migration, and osteogenic differentiation of bone marrow mesenchymal stem cell and promotes bone defect healing. Stem Cell Research and Therapy, 2020, 11, 245.	5.5	55
24	Effects of compatibility of deproteinized antler cancellous bone with various bioactive factors on their osteogenic potential. Biomaterials, 2013, 34, 9103-9114.	11.4	53
25	Mimicking the electrophysiological microenvironment of bone tissue using electroactive materials to promote its regeneration. Journal of Materials Chemistry B, 2020, 8, 10221-10256.	5.8	53
26	Osteogenic differentiation of MC3T3-E1 cells on poly(l-lactide)/Fe3O4 nanofibers with static magnetic field exposure. Materials Science and Engineering C, 2015, 55, 166-173.	7.3	51
27	Flexible fiber-reinforced composites with improved interfacial adhesion by mussel-inspired polydopamine and poly(methyl methacrylate) coating. Materials Science and Engineering C, 2016, 58, 742-749.	7.3	46
28	Biomimetic piezoelectric nanocomposite membranes synergistically enhance osteogenesis of deproteinized bovine bone grafts . International Journal of Nanomedicine, 2019, Volume 14, 3015-3026.	6.7	43
29	Electrospun Gelatin/<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:mo mathvariant="bold">Î²</mml:mo></mml:mrow></mml:math>-TCP Composite Nanofibers Enhance Osteogenic Differentiation of BMSCs andIn VivoBone Formation by Activating Ca²⁺-Sensing Receptor Signaling. Stem Cells International, 2015, 2015, 1-13.	2.5	37
30	Depletion of the diabetic gut microbiota resistance enhances stem cells therapy in type 1 diabetes mellitus. Theranostics, 2020, 10, 6500-6516.	10.0	37
31	Remote Tuning of Builtâ€in Magnetoelectric Microenvironment to Promote Bone Regeneration by Modulating Cellular Exposure to Arginylglycylaspartic Acid Peptide. Advanced Functional Materials, 2021, 31, 2006226.	14.9	33
32	Enamel Repair with Amorphous Ceramics. Advanced Materials, 2020, 32, e1907067.	21.0	30
33	The biological properties of carbon nanofibers decorated with Î²-tricalcium phosphate nanoparticles. Carbon, 2010, 48, 2266-2272.	10.3	27
34	Calcium ion release and osteoblastic behavior of gelatin/beta-tricalcium phosphate composite nanofibers fabricated by electrospinning. Materials Letters, 2012, 73, 172-175.	2.6	27
35	Structure and wettability relationship of coelectrospun poly (Lâ€lactic acid)/gelatin composite fibrous mats. Polymers for Advanced Technologies, 2011, 22, 2222-2230.	3.2	26
36	In situ fabrication of paclitaxelâ€loaded coreâ€crosslinked micelles via thiolâ€ene â€œclickâ€chemistry for reductionâ€responsive drug release. Journal of Polymer Science Part A, 2016, 54, 99-107.	2.3	26

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37	Matrix stiffness modulates tip cell formation through the p-PXN-Rac1-YAP signaling axis. Bioactive Materials, 2022, 7, 364-376.	15.6	25
38	Attenuating Immune Response of Macrophage by Enhancing Hydrophilicity of Ti Surface. Journal of Nanomaterials, 2015, 2015, 1-8.	2.7	24
39	Mechanical properties of polymer-infiltrated-ceramic (sodium aluminum silicate) composites for dental restoration. Journal of Dentistry, 2017, 62, 91-97.	4.1	24
40	TBK1-METTL3 axis facilitates antiviral immunity. Cell Reports, 2022, 38, 110373.	6.4	24
41	Age and gender differences in ACE2 and TMPRSS2 expressions in oral epithelial cells. Journal of Translational Medicine, 2021, 19, 358.	4.4	22
42	Chirality Bias Tissue Homeostasis by Manipulating Immunological Response. Advanced Materials, 2022, 34, e2105136.	21.0	22
43	The Effects of Lactidyl/Glycolidyl Ratio and Molecular Weight of Poly(D,L -Lactide-co-Glycolide) on the Tetracycline Entrapment and Release Kinetics of Drug-Loaded Nanofibers. Journal of Biomaterials Science, Polymer Edition, 2012, 23, 1005-1019.	3.5	21
44	Influence of La Doping on Magnetic and Optical Properties of Bismuth Ferrite Nanofibers. Journal of Nanomaterials, 2012, 2012, 1-5.	2.7	20
45	Synergistic effects of elastic modulus and surface topology of Ti-based implants on early osseointegration. RSC Advances, 2016, 6, 43685-43696.	3.6	20
46	Enhanced Osteogenic Behavior of ADSCs Produced by Deproteinized Antler Cancellous Bone and Evidence for Involvement of ERK Signaling Pathway. Tissue Engineering - Part A, 2015, 21, 1810-1821.	3.1	18
47	An Amorphous Periâ€implant Ligament with Combined Osteointegration and Energyâ€Dissipation. Advanced Materials, 2021, 33, e2103727.	21.0	18
48	The miRâ€193aâ€3pâ€MAP3k3 Signaling Axis Regulates Substrate Topographyâ€Induced Osteogenesis of Bone Marrow Stem Cells. Advanced Science, 2020, 7, 1901412.	11.2	17
49	Sizeâ€Confined Effects of Nanostructures on Fibronectinâ€Induced Macrophage Inflammation on Titanium Implants. Advanced Healthcare Materials, 2021, 10, e2100994.	7.6	17
50	Cell Membrane Vesicles with Enriched CXCR4 Display Enhances Their Targeted Delivery as Drug Carriers to Inflammatory Sites. Advanced Science, 2021, 8, e2101562.	11.2	17
51	Microfibrous Î²-TCP/collagen scaffolds mimic woven bone in structure and composition. Biomedical Materials (Bristol), 2010, 5, 065005.	3.3	16
52	Synthesis of iodine-containing cyclophosphazenes for using as radiopacifiers in dental composite resin. Materials Science and Engineering C, 2014, 43, 432-438.	7.3	14
53	A Review of External Cervical Resorption. Journal of Endodontics, 2021, 47, 883-894.	3.1	13
54	Cellular Uptake and Delivery-Dependent Effects of Tb3+-Doped Hydroxyapatite Nanorods. Molecules, 2017, 22, 1043.	3.8	12

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55	Dose-dependent enhancement of bone marrow stromal cells adhesion, spreading and osteogenic differentiation on atmospheric plasma-treated poly(<scp>l</scp>-lactic acid) nanofibers. Journal of Bioactive and Compatible Polymers, 2013, 28, 453-467.	2.1	11
56	Enhanced Critical Size Defect Repair in Rabbit Mandible by Electrospun Gelatin/Î²-TCP Composite Nanofibrous Membranes. Journal of Nanomaterials, 2015, 2015, 1-9.	2.7	11
57	Enhanced Stem Cell Osteogenic Differentiation by Bioactive Glass Functionalized Graphene Oxide Substrates. Journal of Nanomaterials, 2016, 2016, 1-11.	2.7	10
58	In Vitro Cell Proliferation and Mechanical Behaviors Observed in Porous Zirconia Ceramics. Materials, 2016, 9, 218.	2.9	9
59	Mutation in Îµ-Sarcoglycan Induces a Myoclonus-Dystonia Syndrome-Like Movement Disorder in Mice. Neuroscience Bulletin, 2021, 37, 311-322.	2.9	8
60	Restoration of Critical-Sized Defects in the Rabbit Mandible Using Autologous Bone Marrow Stromal Cells Hybridized with Nano-Î²-tricalcium Phosphate/Collagen Scaffolds. Journal of Nanomaterials, 2013, 2013, 1-8.	2.7	7
61	The Effects of Spark-Plasma Sintering (SPS) on the Microstructure and Mechanical Properties of BaTiO3/3Y-TZP Composites. Materials, 2016, 9, 320.	2.9	7
62	The Dynamic Counterbalance of RAC1â€¥YAP/OBâ€¢Cadherin Coordinates Tissue Spreading with Stem Cell Fate Patterning. Advanced Science, 2021, 8, 2004000.	11.2	7
63	Oxygen Ion Implantation Improving Cell Adhesion on Titanium Surfaces through Increased Attraction of Fibronectin PHSRN Domain. Advanced Healthcare Materials, 2022, 11, e2101983.	7.6	7
64	Self-Activated Cascade Biocatalysis of Glucose Oxidaseâ€“Polycationâ€“Iron Nanoconjugates Augments Cancer Immunotherapy. ACS Applied Materials & Interfaces, 2022, 14, 32823-32835.	8.0	7
65	Biomimetic hierarchical implant surfaces promote early osseointegration in osteoporotic rats by suppressing macrophage activation and osteoclastogenesis. Journal of Materials Chemistry B, 2022, 10, 1875-1885.	5.8	5
66	Electromagnetic interference effect of dental equipment on cardiac implantable electrical devices: A systematic review. PACE - Pacing and Clinical Electrophysiology, 2020, 43, 1588-1598.	1.2	4
67	Ultraâ€Sensitive and Selective Electrochemical Bioâ€Fluid Biopsy for Oral Cancer Screening. Small Methods, 2021, 5, e2001205.	8.6	4
68	Extrapolating neurogenesis of mesenchymal stem/stromal cells on electroactive and electroconductive scaffolds to dental and oral-derived stem cells. International Journal of Oral Science, 2022, 14, 13.	8.6	4
69	The innovation of biomaterials: From bioactive to bioelectroactive. Science China Materials, 2022, 65, 1723-1726.	6.3	4
70	Preparation of CePO4-coated zirconia ceramics and their mechanical behavior. Rare Metals, 2011, 30, 282-286.	7.1	3
71	Remineralizing Efficacy of Fluorohydroxyapatite Gel on Artificial Dentinal Caries Lesion. Journal of Nanomaterials, 2015, 2015, 1-9.	2.7	3
72	Investigations into the Biocompatibility of Nanohydroxyapatite Coated Magnetic Nanoparticles under Magnetic Situation. Journal of Nanomaterials, 2015, 2015, 1-10.	2.7	3

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73	A Gradient pHâ€Sensitive Polymerâ€Based Antiviral Strategy via Viroporinâ€Induced Membrane Acidification. Advanced Materials, 2022, 34, e2109580.	21.0	3
74	HtrA3â€Mediated Endothelial Cellâ€“Extracellular Matrix Crosstalk Regulates Tip Cell Specification. Advanced Functional Materials, 2021, 31, 2100633.	14.9	2
75	Three-dimensional radiographic and histological tracking of rat mandibular defect repair after inferior alveolar nerve axotomy. Archives of Oral Biology, 2021, 131, 105252.	1.8	2
76	Effects of Anhydroicaritin and 2â€³-Hydroxy-3â€³-en-Anhydroicaritin on the Proliferation and Differentiation of MC3T3â€“E1 Osteoblasts. Natural Product Communications, 2012, 7, 1934578X1200701.	0.5	1
77	Biomedical Applications of Dental and Oral-Derived Stem Cells. Stem Cells International, 2017, 2017, 1-2.	2.5	1
78	MapZ deficiency leads to defects in the envelope structure and changes stress tolerance of Streptococcus mutans. Molecular Oral Microbiology, 2021, 36, 295-307.	2.7	1
79	Streptococcus mutans cell division protein FtsZ has higher GTPase and polymerization activities in acidic environment. Molecular Oral Microbiology, 2022, 37, 97-108.	2.7	1
80	A Gradient pHâ€Sensitive Polymerâ€Based Antiviral Strategy via Viroporinâ€Induced Membrane Acidification (Adv. Mater. 18/2022). Advanced Materials, 2022, 34, .	21.0	1
81	Inside Front Cover: Ultraâ€Sensitive and Selective Electrochemical Bioâ€Fluid Biopsy for Oral Cancer Screening (Small Methods 5/2021). Small Methods, 2021, 5, 2170018.	8.6	0