

Bailong Tao

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,863
citations

186265

28
h-index

175258

52
g-index

58
all docs

58
docs citations

58
times ranked

2787
citing authors

#	ARTICLE	IF	CITATIONS
1	Near-Infrared Light-Triggered Nitric-Oxide-Enhanced Photodynamic Therapy and Low-Temperature Photothermal Therapy for Biofilm Elimination. <i>ACS Nano</i> , 2020, 14, 3546-3562.	14.6	411
2	Fabrication of magnesium/zinc-metal organic framework on titanium implants to inhibit bacterial infection and promote bone regeneration. <i>Biomaterials</i> , 2019, 212, 1-16.	11.4	212
3	Remote eradication of biofilm on titanium implant via near-infrared light triggered photothermal/photodynamic therapy strategy. <i>Biomaterials</i> , 2019, 223, 119479.	11.4	185
4	Copper-nanoparticle-embedded hydrogel for killing bacteria and promoting wound healing with photothermal therapy. <i>Journal of Materials Chemistry B</i> , 2019, 7, 2534-2548.	5.8	180
5	Biocompatible MoS ₂ /PDA-RGD coating on titanium implant with antibacterial property via intrinsic ROS-independent oxidative stress and NIR irradiation. <i>Biomaterials</i> , 2019, 217, 119290.	11.4	169
6	Near infrared light-triggered on-demand Cur release from Gel-PDA@Cur composite hydrogel for antibacterial wound healing. <i>Chemical Engineering Journal</i> , 2021, 403, 126182.	12.7	142
7	Surface modification of titanium implants by ZIF-8@Levo/LBL coating for inhibition of bacterial-associated infection and enhancement of in vivo osseointegration. <i>Chemical Engineering Journal</i> , 2020, 390, 124621.	12.7	116
8	Engineering of Cascade-Responsive Nanoplatform to Inhibit Lactate Efflux for Enhanced Tumor Chemo-Immunotherapy. <i>ACS Nano</i> , 2020, 14, 14164-14180.	14.6	88
9	Near-Infrared Light-Activatable Dual-Action Nanoparticle Combats the Established Biofilms of Methicillin-Resistant <i>Staphylococcus aureus</i> and Its Accompanying Inflammation. <i>Small</i> , 2021, 17, e2007522.	10.0	76
10	BMP2-loaded titania nanotubes coating with pH-responsive multilayers for bacterial infections inhibition and osteogenic activity improvement. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 177, 242-252.	5.0	74
11	Injectable biomimetic hydrogels encapsulating Gold/metal-organic frameworks nanocomposites for enhanced antibacterial and wound healing activity under visible light actuation. <i>Chemical Engineering Journal</i> , 2021, 420, 129668.	12.7	64
12	Multilayered coating of titanium implants promotes coupled osteogenesis and angiogenesis in vitro and in vivo. <i>Acta Biomaterialia</i> , 2018, 74, 489-504.	8.3	62
13	Peptide LL-37 coating on micro-structured titanium implants to facilitate bone formation in vivo via mesenchymal stem cell recruitment. <i>Acta Biomaterialia</i> , 2018, 80, 412-424.	8.3	60
14	A dual-functional implant with an enzyme-responsive effect for bacterial infection therapy and tissue regeneration. <i>Biomaterials Science</i> , 2020, 8, 1840-1854.	5.4	59
15	Surface engineering of titanium implants with enzyme-triggered antibacterial properties and enhanced osseointegration in vivo. <i>Journal of Materials Chemistry B</i> , 2018, 6, 8090-8104.	5.8	52
16	A multifunctional hydrogel coating to direct fibroblast activation and infected wound healing via simultaneously controllable photobiomodulation and photodynamic therapies. <i>Biomaterials</i> , 2021, 278, 121164.	11.4	45
17	An autonomous tumor-targeted nanoprodru for reactive oxygen species-activatable dual-cytochrome c/doxorubicin antitumor therapy. <i>Nanoscale</i> , 2018, 10, 11418-11429.	5.6	43
18	Osteoimmunomodulation mediating improved osteointegration by OGP-loaded cobalt-metal organic framework on titanium implants with antibacterial property. <i>Chemical Engineering Journal</i> , 2021, 423, 130176.	12.7	42

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19	The fabrication and in vitro properties of antibacterial polydopamine-LL-37-POPC coatings on micro-arc oxidized titanium. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 170, 54-63.	5.0	41
20	Surface modification of titanium substrate via combining photothermal therapy and quorum-sensing-inhibition strategy for improving osseointegration and treating biofilm-associated bacterial infection. <i>Bioactive Materials</i> , 2022, 18, 228-241.	15.6	41
21	Deferoxamine loaded titania nanotubes substrates regulate osteogenic and angiogenic differentiation of MSCs via activation of HIF-1 \pm signaling. <i>Materials Science and Engineering C</i> , 2018, 91, 44-54.	7.3	36
22	Fabrication of gelatin-based and Zn ²⁺ -incorporated composite hydrogel for accelerated infected wound healing. <i>Materials Today Bio</i> , 2022, 13, 100216.	5.5	35
23	Calcium Peroxide Nanoparticles Embedded Coatings on Anti-inflammatory TiO ₂ Nanotubes for Bacteria Elimination and Inflammatory Environment Amelioration. <i>Small</i> , 2021, 17, e2102907.	10.0	33
24	Zn incorporation with graphene oxide on Ti substrates surface to improve osteogenic activity and inhibit bacterial adhesion. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 2310-2326.	4.0	32
25	Investigation of osteogenic responses of Fe-incorporated micro/nano-hierarchical structures on titanium surfaces. <i>Journal of Materials Chemistry B</i> , 2018, 6, 1359-1372.	5.8	31
26	Fabrication of copper ions-substituted hydroxyapatite/polydopamine nanocomposites with high antibacterial and angiogenesis effects for promoting infected wound healing. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 104, 345-355.	5.8	31
27	Magnesium/gallium-layered nanosheets on titanium implants mediate osteogenic differentiation of MSCs and osseointegration under osteoporotic condition. <i>Chemical Engineering Journal</i> , 2022, 427, 130982.	12.7	31
28	The nanoparticle-facilitated autophagy inhibition of cancer stem cells for improved chemotherapeutic effects on glioblastomas. <i>Journal of Materials Chemistry B</i> , 2019, 7, 2054-2062.	5.8	30
29	Functionalization of titanium substrate with multifunctional peptide OGP-NAC for the regulation of osteoimmunology. <i>Biomaterials Science</i> , 2019, 7, 1463-1476.	5.4	29
30	Matrix promote mesenchymal stromal cell migration with improved deformation via nuclear stiffness decrease. <i>Biomaterials</i> , 2019, 217, 119300.	11.4	29
31	ROS-responsive hydrogel coating modified titanium promotes vascularization and osteointegration of bone defects by orchestrating immunomodulation. <i>Biomaterials</i> , 2022, 287, 121683.	11.4	28
32	Fast-setting and anti-washout tricalcium silicate/disodium hydrogen phosphate composite cement for dental application. <i>Ceramics International</i> , 2019, 45, 24182-24192.	4.8	26
33	Regulation of MSC and macrophage functions in bone healing by peptide LL-37-loaded silk fibroin nanoparticles on a titanium surface. <i>Biomaterials Science</i> , 2019, 7, 5492-5505.	5.4	25
34	Functionalization of Ti substrate with pH-responsive naringin-ZnO nanoparticles for the reconstruction of large bony after osteosarcoma resection. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 2190-2205.	4.0	24
35	Polydopamine-Assisted Hydroxyapatite and Lactoferrin Multilayer on Titanium for Regulating Bone Balance and Enhancing Antibacterial Property. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 3211-3223.	5.2	23
36	A pH-responsive hyaluronic acid hydrogel for regulating the inflammation and remodeling of the ECM in diabetic wounds. <i>Journal of Materials Chemistry B</i> , 2022, 10, 2875-2888.	5.8	21

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37	A dynamic matrix potentiates mesenchymal stromal cell paracrine function <i>via</i> an effective mechanical dose. <i>Biomaterials Science</i> , 2020, 8, 4779-4791.	5.4	18
38	Gallium (Ga)-strontium (Sr) layered double hydroxide composite coating on titanium substrates for enhanced osteogenic and antibacterial abilities. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 273-286.	4.0	18
39	A facile and novel design of multifunctional electronic skin based on polydimethylsiloxane with micropillars for signal monitoring. <i>Journal of Materials Chemistry B</i> , 2020, 8, 8315-8322.	5.8	17
40	Development of coinage metal nanoclusters as antimicrobials to combat bacterial infections. <i>Journal of Materials Chemistry B</i> , 2020, 8, 9466-9480.	5.8	17
41	N-halamine-based multilayers on titanium substrates for antibacterial application. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 170, 382-392.	5.0	16
42	Differentiation regulation of mesenchymal stem cells <i>via</i> autophagy induced by structurally-different silica based nanobiomaterials. <i>Journal of Materials Chemistry B</i> , 2019, 7, 2657-2666.	5.8	16
43	Two novel drugs as bio-functional inhibitors for copper performing excellent anticorrosion and antibacterial properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 190, 110898.	5.0	15
44	Substance P-embedded multilayer on titanium substrates promotes local osseointegration <i>via</i> MSC recruitment. <i>Journal of Materials Chemistry B</i> , 2020, 8, 1212-1222.	5.8	14
45	Osteogenesis regulation of mesenchymal stem cells <i>via</i> autophagy induced by silica-titanium composite surfaces with different mechanical moduli. <i>Journal of Materials Chemistry B</i> , 2020, 8, 9314-9324.	5.8	14
46	Enzymatically-degradable hydrogel coatings on titanium for bacterial infection inhibition and enhanced soft tissue compatibility via a self-adaptive strategy. <i>Bioactive Materials</i> , 2021, 6, 4670-4685.	15.6	12
47	<p>Ultra-Small Lysozyme-Protected Gold Nanoclusters as Nanomedicines Inducing Osteogenic Differentiation</p>. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 4705-4716.	6.7	11
48	Preparing and immobilizing antimicrobial osteogenic growth peptide on titanium substrate surface. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 3021-3033.	4.0	10
49	Fabrication of chitosan-graft-polyaniline-based multilayers on Ti substrates for enhancing antibacterial property and improving osteogenic activity. <i>Materials Letters</i> , 2020, 268, 127420.	2.6	10
50	Near-infrared light triggered multi-mode synergetic therapy for improving antibacterial and osteogenic activity of titanium implants. <i>Applied Materials Today</i> , 2021, 24, 101155.	4.3	9
51	Effects of a novel self-assembling peptide scaffold on bone regeneration and controlled release of two growth factors. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 943-953.	4.0	9
52	Fabrication of copper ions-substituted hydroxyapatite coating on titanium substrates for antibacterial and osteogenic applications. <i>Materials Letters</i> , 2022, 307, 131072.	2.6	8
53	Self-renewal or quiescence? Orchestrating the fate of mesenchymal stem cells by matrix viscoelasticity via PI3K/Akt-CDK1 pathway. <i>Biomaterials</i> , 2021, 279, 121235.	11.4	8
54	Improved osteointegration by SEW2871-encapsulated multilayers on micro-structured titanium via macrophages recruitment and immunomodulation. <i>Applied Materials Today</i> , 2020, 20, 100673.	4.3	7

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55	Enhanced biocompatibility and osteogenic differentiation of mesenchymal stem cells of titanium by Sr ²⁺ /Ga ³⁺ layered double hydroxides. <i>Journal of Materials Chemistry B</i> , 2021, 9, 6029-6036.	5.8	3
56	Anti-washout tricalcium silicate cements modified by konjac glucomannan/calcium formate complex for endodontic applications. <i>Ceramics International</i> , 2022, 48, 24298-24309.	4.8	3
57	Multifunctional silicon calcium phosphate composite scaffolds promote stem cell recruitment and bone regeneration. <i>Journal of Materials Chemistry B</i> , 2022, 10, 5218-5230.	5.8	2
58	Musculotendinous Junction Injuries of the Proximal Biceps Femoris: Letter to the Editor. <i>American Journal of Sports Medicine</i> , 2021, 49, NP1-NP1.	4.2	0