

Bioinspired anchoring AgNPs onto micro-nanoporous T Trap-killing of bacteria, surface-regulated osteoblast fu

Biomaterials

75, 203-222

DOI: [10.1016/j.biomaterials.2015.10.035](https://doi.org/10.1016/j.biomaterials.2015.10.035)

Citation Report

#	ARTICLE	IF	CITATIONS
1	From Solution to Biointerface: Graphene Self-Assemblies of Varying Lateral Sizes and Surface Properties for Biofilm Control and Osteodifferentiation. ACS Applied Materials & Interfaces, 2016, 8, 17151-17165.	4.0	78
2	Dopamine Modified Organic-Inorganic Hybrid Coating for Antimicrobial and Osteogenesis. ACS Applied Materials & Interfaces, 2016, 8, 33972-33981.	4.0	141
3	Antimicrobial activity of tantalum oxide coatings decorated with Ag nanoparticles. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, .	0.9	19
4	Nanocoatings for Medical Devices. , 2016, , 519-543.		2
5	Effects of hierarchical micro/nano-topographies on the morphology, proliferation and differentiation of osteoblast-like cells. Colloids and Surfaces B: Biointerfaces, 2016, 145, 37-45.	2.5	124
6	SaOS-2 cell response to macro-porous boron-incorporated TiO ₂ coating prepared by micro-arc oxidation on titanium. Materials Science and Engineering C, 2016, 67, 195-204.	3.8	19
7	Schottky barrier dependent antimicrobial efficacy of silver nanoparticles. Materials Letters, 2016, 179, 1-4.	1.3	10
8	Additively Manufactured Macroporous Titanium with Silver-Releasing Micro-/Nanoporous Surface for Multipurpose Infection Control and Bone Repair – A Proof of Concept. ACS Applied Materials & Interfaces, 2016, 8, 28495-28510.	4.0	96
9	Corrosion behavior of Zn-incorporated antibacterial TiO ₂ porous coating on titanium. Ceramics International, 2016, 42, 17095-17100.	2.3	74
10	Antibacterial and antifouling activities of chitosan/TiO ₂ /Ag NPs nanocomposite films against packaged drinking water bacterial isolates. Environmental Science and Pollution Research, 2016, 23, 19529-19540.	2.7	30
11	Antimicrobial design of titanium surface that kill sessile bacteria but support stem cells adhesion. Applied Surface Science, 2016, 389, 7-16.	3.1	18
12	Fabrication of antibacterial surface via UV-inducing dopamine polymerization combined with co-deposition Ag nanoparticles. Materials Letters, 2016, 183, 85-89.	1.3	17
13	Combinatorial MAPLE deposition of antimicrobial orthopedic maps fabricated from chitosan and biomimetic apatite powders. International Journal of Pharmaceutics, 2016, 511, 505-515.	2.6	21
14	Mussel-inspired silver-nanoparticle coating on porous titanium surfaces to promote mineralization. RSC Advances, 2016, 6, 104025-104035.	1.7	15
15	Immobilization of antibacterial chlorhexidine on stainless steel using crosslinking polydopamine film: Towards infection resistant medical devices. Colloids and Surfaces B: Biointerfaces, 2016, 145, 130-139.	2.5	27
16	Cecropin B loaded TiO ₂ nanotubes coated with hyaluronidase sensitive multilayers for reducing bacterial adhesion. Materials and Design, 2016, 92, 1007-1017.	3.3	38
17	Antibacterial Activity of Silver Doped Titanate Nanowires on Ti Implants. ACS Applied Materials & Interfaces, 2016, 8, 16584-16594.	4.0	102
18	Inhibitor encapsulated, self-healable and cytocompatible chitosan multilayer coating on biodegradable Mg alloy: a pH-responsive design. Journal of Materials Chemistry B, 2016, 4, 2498-2511.	2.9	79

#	ARTICLE	IF	CITATIONS
19	Surface modification of TiO ₂ nanotubes with osteogenic growth peptide to enhance osteoblast differentiation. <i>Materials Science and Engineering C</i> , 2017, 73, 490-497.	3.8	49
20	The Horizon of Materiobiology: A Perspective on Material-Guided Cell Behaviors and Tissue Engineering. <i>Chemical Reviews</i> , 2017, 117, 4376-4421.	23.0	424
21	Emerging technologies for long-term antimicrobial device coatings: advantages and limitations. <i>Experimental Biology and Medicine</i> , 2017, 242, 788-798.	1.1	65
22	The fabrication of Ag-containing hierarchical micro/nano-structure on titanium and its antibacterial activity. <i>Materials Letters</i> , 2017, 193, 97-100.	1.3	10
23	Nano-hydroxyapatite reinforced polyphenylene sulfide biocomposite with superior cytocompatibility and in vivo osteogenesis as a novel orthopedic implant. <i>RSC Advances</i> , 2017, 7, 559-573.	1.7	33
24	From Nano to Micro: using nanotechnology to combat microorganisms and their multidrug resistance. <i>FEMS Microbiology Reviews</i> , 2017, 41, 302-322.	3.9	178
25	Influence of Surface Silanization on the Physicochemical Stability of Silver Nanocoatings: A Large Length Scale Assessment. <i>Journal of Physical Chemistry C</i> , 2017, 121, 11300-11311.	1.5	10
26	Biophysical Regulation of Cell Behavior—Cross Talk between Substrate Stiffness and Nanotopography. <i>Engineering</i> , 2017, 3, 36-54.	3.2	193
27	Recent progress in the biomedical applications of polydopamine nanostructures. <i>Biomaterials Science</i> , 2017, 5, 1204-1229.	2.6	219
28	Hyaluronic Acid-Templated Ag Nanoparticles/Graphene Oxide Composites for Synergistic Therapy of Bacteria Infection. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 19717-19724.	4.0	110
29	Nano-silver-decorated microfibrinous eggshell membrane: processing, cytotoxicity assessment and optimization, antibacterial activity and wound healing. <i>Scientific Reports</i> , 2017, 7, 436.	1.6	73
31	Rapamycin-loaded nanoporous Fe ₂ O ₃ as an endothelial favorable and thromboresistant coating for biodegradable drug-eluting Fe stent applications. <i>Journal of Materials Chemistry B</i> , 2017, 5, 1182-1194.	2.9	19
32	Approaches for Controlled Ag ⁺ Ion Release: Influence of Surface Topography, Roughness, and Bactericide Content. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4259-4271.	4.0	45
33	AgNPs-decorated 3D printed PEEK implant for infection control and bone repair. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 160, 483-492.	2.5	113
34	Targeting microbial biofilms: current and prospective therapeutic strategies. <i>Nature Reviews Microbiology</i> , 2017, 15, 740-755.	13.6	1,187
35	A graphene oxide/silver nanoparticle composite as a novel agricultural antibacterial agent against <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> for crop disease management. <i>New Journal of Chemistry</i> , 2017, 41, 13692-13699.	1.4	42
36	Silver-loaded chitosan coating as an integrated approach to face titanium implant-associated infections: analytical characterization and biological activity. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 7211-7221.	1.9	18
37	Tannic Acid/Fe ³⁺ /Ag Nanofilm Exhibiting Superior Photodynamic and Physical Antibacterial Activity. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 39657-39671.	4.0	76

#	ARTICLE	IF	CITATIONS
38	Nanovalves-Based Bacteria-Triggered, Self-Defensive Antibacterial Coating: Using Combination Therapy, Dual Stimuli-Responsiveness, and Multiple Release Modes for Treatment of Implant-Associated Infections. <i>Chemistry of Materials</i> , 2017, 29, 8325-8337.	3.2	47
39	Bioinspired and Biomimetic AgNPs/Gentamicin-Embedded Silk Fibroin Coatings for Robust Antibacterial and Osteogenetic Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 25830-25846.	4.0	104
40	Corrosion Behavior of Titanium Implant with different Surface Morphologies. <i>Procedia Manufacturing</i> , 2017, 10, 363-370.	1.9	20
41	Silver nanoparticles in dentistry. <i>Dental Materials</i> , 2017, 33, 1110-1126.	1.6	213
42	Antibacterial and cytocompatible AgNPs constructed with the assistance of Mefp-1 for orthopaedic implants. <i>RSC Advances</i> , 2017, 7, 38434-38443.	1.7	10
43	Photoelectrochemical Cytosensing of RAW264.7 Macrophage Cells Based on a TiO ₂ /MoO ₃ Array. <i>Analytical Chemistry</i> , 2017, 89, 7950-7957.	3.2	39
44	In situ construction of Ag NPs in bio-inspired multilayer films for long-term bactericidal and biofilm inhibition properties. <i>Polymer Testing</i> , 2017, 62, 162-170.	2.3	6
45	Polydopamine coatings embedded with silver nanoparticles on nanostructured titania for long-lasting antibacterial effect. <i>Surface and Coatings Technology</i> , 2017, 320, 608-613.	2.2	39
46	Nanosized Building Blocks for Customizing Novel Antibiofilm Approaches. <i>Journal of Dental Research</i> , 2017, 96, 128-136.	2.5	16
47	Reduced bacteria adhesion on octenidine loaded mesoporous silica nanoparticles coating on titanium substrates. <i>Materials Science and Engineering C</i> , 2017, 70, 386-395.	3.8	30
48	Ti-GO-Ag nanocomposite: the effect of content level on the antimicrobial activity and cytotoxicity. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 4209-4224.	3.3	55
49	Nanostructured coatings for biomaterials. , 2017, , 191-210.		1
50	Review of Antibacterial Activity of Titanium-Based Implants™ Surfaces Fabricated by Micro-Arc Oxidation. <i>Coatings</i> , 2017, 7, 45.	1.2	63
51	Optimization and integration of nanosilver on polycaprolactone nanofibrous mesh for bacterial inhibition and wound healing in vitro and in vivo. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 6827-6840.	3.3	24
52	Progress in TiO ₂ nanotube coatings for biomedical applications: a review. <i>Journal of Materials Chemistry B</i> , 2018, 6, 1862-1886.	2.9	121
53	Facile synthesis of TiO ₂ /Ag composite aerogel with excellent antibacterial properties. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 86, 590-598.	1.1	17
54	<i>In vitro</i> effect of graphene structures as an osteoinductive factor in bone tissue engineering: A systematic review. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 2284-2343.	2.1	56
55	Electrochemical surface engineering of titanium-based alloys for biomedical application. <i>Electrochimica Acta</i> , 2018, 271, 699-718.	2.6	168

#	ARTICLE	IF	CITATIONS
56	Enhanced SaOS-2 cell adhesion, proliferation and differentiation on Mg-incorporated micro/nano-topographical TiO ₂ coatings. Applied Surface Science, 2018, 447, 767-776.	3.1	35
57	An overview of graphene-based hydroxyapatite composites for orthopedic applications. Bioactive Materials, 2018, 3, 1-18.	8.6	171
58	Mechanisms of the enhanced antibacterial effect of Ag-TiO ₂ coatings. Biofouling, 2018, 34, 190-199.	0.8	21
59	Incorporation of antibacterial ions on the micro/nanostructured surface and its effects on the corrosion behavior of titanium. Materials Letters, 2018, 216, 303-305.	1.3	8
60	Antibiotic peptide-modified nanostructured titanium surface for enhancing bactericidal property. Journal of Materials Science, 2018, 53, 5891-5908.	1.7	5
61	Synergetic topography and chemistry cues guiding osteogenic differentiation in bone marrow stromal cells through ERK1/2 and p38 MAPK signaling pathway. Biomaterials Science, 2018, 6, 418-430.	2.6	45
62	Anti-biofouling and antibacterial surfaces <i>via</i> a multicomponent coating deposited from an up-scalable atmospheric-pressure plasma-assisted CVD process. Journal of Materials Chemistry B, 2018, 6, 614-623.	2.9	36
63	Silver-Incorporated Mussel-Inspired Polydopamine Coatings on Mesoporous Silica as an Efficient Nanocatalyst and Antimicrobial Agent. ACS Applied Materials & Interfaces, 2018, 10, 1792-1801.	4.0	116
64	Nanotechnology in orthopedics: a clinically oriented review. BMC Musculoskeletal Disorders, 2018, 19, 67.	0.8	51
65	An efficient antimicrobial depot for infectious site-targeted chemo-photothermal therapy. Journal of Nanobiotechnology, 2018, 16, 23.	4.2	77
66	Current Options and Emerging Biomaterials for Periprosthetic Joint Infection. Current Rheumatology Reports, 2018, 20, 33.	2.1	28
67	Osteogenic nanostructured titanium surfaces with antibacterial properties under conditions that mimic the dynamic situation in the oral cavity. Biomaterials Science, 2018, 6, 1390-1402.	2.6	19
68	Helical flow-driven alignment of off-axial silver-functionalized titanium dioxide fibers in polypropylene tube suitable for medical applications. Composites Science and Technology, 2018, 158, 121-127.	3.8	18
69	Fabrication of an orderly micro/nanostructure on titanium surface and its effect on cell proliferation. Materials Letters, 2018, 212, 247-250.	1.3	19
70	Biocompatible nanocomposite of TiO ₂ incorporated bi-polymer for articular cartilage tissue regeneration: A facile material. Journal of Photochemistry and Photobiology B: Biology, 2018, 178, 440-446.	1.7	32
71	Characteristics and Applications of Silver Nanoparticles. , 2018, , 227-273.		16
72	Organic-inorganic hybrid based on co-assembly of polyoxometalate and dopamine for synthesis of nanostructured Ag. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 538, 513-518.	2.3	12
73	Nano Ag/ZnO-Incorporated Hydroxyapatite Composite Coatings: Highly Effective Infection Prevention and Excellent Osteointegration. ACS Applied Materials & Interfaces, 2018, 10, 1266-1277.	4.0	127

#	ARTICLE	IF	CITATIONS
74	Construction of High Drug Loading and Enzymatic Degradable Multilayer Films for Self-Defense Drug Release and Long-Term Biofilm Inhibition. <i>Biomacromolecules</i> , 2018, 19, 85-93.	2.6	62
75	Effects of copper nanoparticles in porous TiO ₂ coatings on bacterial resistance and cytocompatibility of osteoblasts and endothelial cells. <i>Materials Science and Engineering C</i> , 2018, 82, 110-120.	3.8	96
76	<i>Bacillus amyloliquefaciens</i> levan and its silver nanoparticles with antimicrobial properties. <i>Biotechnology and Biotechnological Equipment</i> , 2018, 32, 1583-1589.	0.5	15
77	Exogenous Physical Irradiation on Titania Semiconductors: Materials Chemistry and Tumor-Specific Nanomedicine. <i>Advanced Science</i> , 2018, 5, 1801175.	5.6	39
79	Construction of Antibacterial and Bioactive Surface for Titanium Implant. <i>Nanomanufacturing and Metrology</i> , 2018, 1, 252-259.	1.5	6
80	Nano-silver-incorporated biomimetic polydopamine coating on a thermoplastic polyurethane porous nanocomposite as an efficient antibacterial wound dressing. <i>Journal of Nanobiotechnology</i> , 2018, 16, 89.	4.2	59
82	Mesenchymal Stem Cells Adhesion on Micro-to-Nano-Scaled Hierarchical Ti Implants Fabricated by Powder Metallurgy and Anodization. <i>Key Engineering Materials</i> , 2018, 770, 70-79.	0.4	1
83	Antibacterial Activity and Biocompatibility of Nanoporous Titanium Doped with Silver Nanoparticles and Coated with N-Acetyl Cysteine. <i>Journal of Hard Tissue Biology</i> , 2018, 27, 351-358.	0.2	4
84	A critical review of multifunctional titanium surfaces: New frontiers for improving osseointegration and host response, avoiding bacteria contamination. <i>Acta Biomaterialia</i> , 2018, 79, 1-22.	4.1	293
85	Construction of Self-defensive Antibacterial and Osteogenic AgNPs/Gentamicin Coatings with Chitosan as Nanovalves for Controlled release. <i>Scientific Reports</i> , 2018, 8, 13432.	1.6	23
86	Endowing polyetheretherketone with synergistic bactericidal effects and improved osteogenic ability. <i>Acta Biomaterialia</i> , 2018, 79, 216-229.	4.1	55
87	Dual Ag/Zn-Decorated Micro-Nanoporous Sulfonated Polyetheretherketone with Superior Antibacterial Capability and Biocompatibility via Layer-by-Layer Self-Assembly Strategy. <i>Macromolecular Bioscience</i> , 2018, 18, e1800028.	2.1	55
88	Incorporation of silver nanoparticles on Ti7.5Mo alloy surface containing TiO ₂ nanotubes arrays for promoting antibacterial coating – In vitro and in vivo study. <i>Applied Surface Science</i> , 2018, 455, 780-788.	3.1	17
89	The relationship between substrate morphology and biological performances of nano-silver-loaded dopamine coatings on titanium surfaces. <i>Royal Society Open Science</i> , 2018, 5, 172310.	1.1	14
90	A new recyclable crosslinked polymer combined polyurethane and epoxy resin. <i>Polymer</i> , 2018, 149, 154-163.	1.8	23
91	Direct covalent attachment of silver nanoparticles on radical-rich plasma polymer films for antibacterial applications. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5845-5853.	2.9	40
92	Rapid mussel-inspired synthesis of PDA-Zn-Ag nanofilms on TiO ₂ nanotubes for optimizing the antibacterial activity and biocompatibility by doping polydopamine with zinc at a higher temperature. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 171, 101-109.	2.5	26
93	Potential antibacterial mechanism of silver nanoparticles and the optimization of orthopedic implants by advanced modification technologies. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 3311-3327.	3.3	651

#	ARTICLE	IF	CITATIONS
94	Construction of perfluorohexane/IR780@liposome coating on Ti for rapid bacteria killing under permeable near infrared light. <i>Biomaterials Science</i> , 2018, 6, 2460-2471.	2.6	28
95	Emerging Nanomedicine Therapies to Counter the Rise of Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Materials</i> , 2018, 11, 321.	1.3	36
96	Antiadhesive and antibacterial properties of pillar[5]arene-based multilayers. <i>Chemical Communications</i> , 2018, 54, 10203-10206.	2.2	23
97	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.	2.5	41
98	Incorporation of silica nanoparticles to PLGA electrospun fibers for osteogenic differentiation of human osteoblast-like cells. <i>International Journal of Energy Production and Management</i> , 2018, 5, 229-238.	1.9	34
99	Bioinspired and osteopromotive polydopamine nanoparticle-incorporated fibrous membranes for robust bone regeneration. <i>NPG Asia Materials</i> , 2019, 11, .	3.8	51
100	General Bioinspired, Innovative Method for Fabrication of Surface-Nickeled Meta-aramid Fibers. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 9458-9464.	1.8	10
101	Gallium loading into a polydopamine-functionalised SrTiO ₃ nanotube with combined osteoinductive and antimicrobial activities. <i>Ceramics International</i> , 2019, 45, 22183-22195.	2.3	33
102	Acidity-Activated Charge-Convertible Silver Nanocomposites for Enhanced Bacteria-Specific Aggregation and Antibacterial Activity. <i>Biomacromolecules</i> , 2019, 20, 3031-3040.	2.6	21
103	Inkjet printing Ag-TiO ₂ thin films with suppressed photoluminescence. <i>Semiconductor Science and Technology</i> , 2019, 34, 105027.	1.0	4
104	One-step fabrication of Ag@Polydopamine film modified NiTi alloy with strong antibacterial property and enhanced anticorrosion performance. <i>Surface and Coatings Technology</i> , 2019, 380, 125013.	2.2	7
105	Recent advances in functional nanostructured materials for bone-related diseases. <i>Journal of Materials Chemistry B</i> , 2019, 7, 509-527.	2.9	21
107	Chemical and Biological Roles of Zinc in a Porous Titanium Dioxide Layer Formed by Micro-Arc Oxidation. <i>Coatings</i> , 2019, 9, 705.	1.2	21
108	Development of an antibacterial nanobiomaterial for wound-care based on the absorption of AgNPs on the eggshell membrane. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 183, 110449.	2.5	32
109	Construction of Complex Structures Containing Micro-Pits and Nano-Pits on the Surface of Titanium for Cytocompatibility Improvement. <i>Materials</i> , 2019, 12, 2820.	1.3	11
110	Remote eradication of biofilm on titanium implant via near-infrared light triggered photothermal/photodynamic therapy strategy. <i>Biomaterials</i> , 2019, 223, 119479.	5.7	185
111	Mussel-Inspired Fabrication of SERS Swabs for Highly Sensitive and Conformal Rapid Detection of Thiram Bactericides. <i>Nanomaterials</i> , 2019, 9, 1331.	1.9	21
112	Enhanced antibacterial activity of titanium by surface modification with polydopamine and silver for dental implant application. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2019, 17, 228080001984706.	0.7	34

#	ARTICLE	IF	CITATIONS
113	<p></p>Enhanced antibacterial properties of orthopedic implants by titanium nanotube surface modification: a review of current techniques<p></p>. International Journal of Nanomedicine, 2019, Volume 14, 7217-7236.	3.3	66
114	Effect of exposure of osteoblast-like cells to low-dose silver nanoparticles: uptake, retention and osteogenic activity. Artificial Cells, Nanomedicine and Biotechnology, 2019, 47, 260-267.	1.9	26
115	<p></p>Fabrication of KR-12 peptide-containing hyaluronic acid immobilized fibrous eggshell membrane effectively kills multi-drug-resistant bacteria, promotes angiogenesis and accelerates re-epithelialization<p></p>. International Journal of Nanomedicine, 2019, Volume 14, 3345-3360.	3.3	32
116	Advanced titanium dioxide-polytetrafluorethylene (TiO ₂ -PTFE) nanocomposite coatings on stainless steel surfaces with antibacterial and anti-corrosion properties. Applied Surface Science, 2019, 490, 231-241.	3.1	73
117	Fabrication and biological evaluation of titanium surfaces with multistage storage space for potential biomedical application. Materials Research Express, 2019, 6, 075406.	0.8	1
118	Rubidium-doped titanium surfaces with modulatory effects on MC3T3-E1 cell response and antibacterial capacity against <i>Staphylococcus aureus</i>. Biomedical Materials (Bristol), 2019, 14, 045016.	1.7	6
119	Fabrication and Characterization of Nanopillar-Like HA Coating on Porous Ti6Al4V Scaffold by a Combination of Alkali-Heat and Hydrothermal Treatments. Acta Metallurgica Sinica (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.5	10
120	Mussel-inspired immobilization of silver nanoparticles toward sponge for rapid swabbing extraction and SERS detection of trace inorganic explosives. Talanta, 2019, 204, 189-197.	2.9	38
121	Fabrication of magnesium/zinc-metal organic framework on titanium implants to inhibit bacterial infection and promote bone regeneration. Biomaterials, 2019, 212, 1-16.	5.7	212
122	Enhanced Antibacterial Activity of Poly (dimethylsiloxane) Membranes by Incorporating SiO ₂ Microspheres Generated Silver Nanoparticles. Nanomaterials, 2019, 9, 705.	1.9	15
123	Inflammatory responses to micro/nano-structured titanium surfaces with silver nanoparticles <i>in vitro</i>. Journal of Materials Chemistry B, 2019, 7, 3546-3559.	2.9	15
124	Amorphous carbon modification on implant surface: a general strategy to enhance osteogenic differentiation for diverse biomaterials via FAK/ERK1/2 signaling pathways. Journal of Materials Chemistry B, 2019, 7, 2518-2533.	2.9	19
125	Investigation of Realizing Both Antibacterial Property and Osteogenic Cell Compatibility on Titanium Surface by Simple Electrochemical Treatment. ACS Biomaterials Science and Engineering, 2019, 5, 5623-5630.	2.6	38
127	Chitosan-based asymmetric topological membranes with cell-like features for healthcare applications. Journal of Materials Chemistry B, 2019, 7, 2634-2642.	2.9	14
128	Advanced antibacterial activity of biocompatible tantalum nanofilm via enhanced local innate immunity. Acta Biomaterialia, 2019, 89, 403-418.	4.1	51
129	Biomimicry of oil infused layer on 3D printed poly(dimethylsiloxane): Non-fouling, antibacterial and promoting infected wound healing. Materials Science and Engineering C, 2019, 100, 915-927.	3.8	34
130	A single-step fabrication approach for development of antimicrobial surfaces. Journal of Materials Processing Technology, 2019, 271, 249-260.	3.1	14
131	<p></p>Establishing an osteoimmunomodulatory coating loaded with aspirin on the surface of titanium primed with phase-transited lysozyme<p></p>. International Journal of Nanomedicine, 2019, Volume 14, 977-991.	3.3	23

#	ARTICLE	IF	CITATIONS
132	Anti-biofouling activity of Ranaspumin-2 bio-surfactant immobilized on catechol-functional PMMA thin layers prepared by atmospheric plasma deposition. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 178, 120-128.	2.5	14
133	Nanomaterials for bone tissue regeneration: updates and future perspectives. <i>Nanomedicine</i> , 2019, 14, 2987-3006.	1.7	35
134	A Novel Cytocompatibility Strengthening Strategy of Ultrafine-Grained Pure Titanium. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47680-47694.	4.0	11
135	One-step deposition of antibacterial Ag@Pdop hybrid films on an NiTi alloy. <i>RSC Advances</i> , 2019, 9, 29263-29272.	1.7	4
136	Fabricating Ultra-Smooth Diamond-Like Carbon Film and Investigating its Antifungal and Antibiofilm Activity. <i>Journal of Biomimetics, Biomaterials and Biomedical Engineering</i> , 2019, 43, 109-123.	0.5	2
137	Constructing Multilayer Silk Protein/Nanosilver Biofunctionalized Hierarchically Structured 3D Printed Ti6Al4 V Scaffold for Repair of Infective Bone Defects. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 244-261.	2.6	42
138	Micro-/Nano-Scales Direct Cell Behavior on Biomaterial Surfaces. <i>Molecules</i> , 2019, 24, 75.	1.7	53
139	Dual Therapy Coating on Micro/Nanoscale Porous Polyetheretherketone to Eradicate Biofilms and Accelerate Bone Tissue Repair. <i>Macromolecular Bioscience</i> , 2019, 19, e1800376.	2.1	21
140	Electrophoretic deposition of core-shell Ag@MSN incorporated-chitosan coatings with biocompatible and antibacterial activities. <i>Materials Letters</i> , 2019, 239, 29-32.	1.3	16
141	Strontium/adiponectin co-decoration modulates the osteogenic activity of nano-morphologic polyetheretherketone implant. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 176, 38-46.	2.5	35
142	Zinc-Based Biomaterials for Regeneration and Therapy. <i>Trends in Biotechnology</i> , 2019, 37, 428-441.	4.9	243
143	Triple-Bioinspired Burying/Crosslinking Interfacial Coassembly Strategy for Layer-by-Layer Construction of Robust Functional Bioceramic Self-Coatings for Osteointegration Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4447-4469.	4.0	31
144	Bioactivity of micropatterned TiO ₂ nanotubes fabricated by micro-milling and anodic oxidation. <i>Materials Science and Engineering C</i> , 2019, 95, 114-121.	3.8	25
145	In situ self-assembly of graphene oxide/polydopamine/Sr ²⁺ nanosheets on titanium surfaces for enhanced osteogenic differentiation of mesenchymal stem cells. <i>Carbon</i> , 2019, 142, 567-579.	5.4	32
146	The development of Cu-incorporated micro/nano-topographical bio-ceramic coatings for enhanced osteoblast response. <i>Applied Surface Science</i> , 2019, 465, 575-583.	3.1	29
147	Quaternary ammonium salt-based cross-linked micelle templated synthesis of highly active silver nanocomposite for synergistic anti-biofilm application. <i>Chemical Engineering Journal</i> , 2020, 382, 122976.	6.6	28
148	Antibacterial activity of a porous silver doped TiO ₂ coating on titanium substrates synthesized by plasma electrolytic oxidation. <i>Applied Surface Science</i> , 2020, 500, 144235.	3.1	95
149	d-Cysteine functionalised silver nanoparticles surface with a α -dispense-then-kill α -antibacterial synergy. <i>Chemical Engineering Journal</i> , 2020, 381, 122662.	6.6	29

#	ARTICLE	IF	CITATIONS
150	Nanomaterials-based photothermal therapy and its potentials in antibacterial treatment. <i>Journal of Controlled Release</i> , 2020, 328, 251-262.	4.8	325
151	MXene-Based Hydrogels Endow Polyetheretherketone with Effective Osteogenicity and Combined Treatment of Osteosarcoma and Bacterial Infection. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 45891-45903.	4.0	111
152	pH-responsive silk fibroin-based CuO/Ag micro/nano coating endows polyetheretherketone with synergistic antibacterial ability, osteogenesis, and angiogenesis. <i>Acta Biomaterialia</i> , 2020, 115, 220-234.	4.1	81
153	Polydopamine (PDA) mediated nanogranular-structured titanium dioxide (TiO ₂) coating on polyetheretherketone (PEEK) for oral and maxillofacial implants application. <i>Surface and Coatings Technology</i> , 2020, 401, 126282.	2.2	26
154	Polydopamine Surface Coating Synergizes the Antimicrobial Activity of Silver Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40067-40077.	4.0	79
155	Antibacterial Property and Biocompatibility of Silver, Copper, and Zinc in Titanium Dioxide Layers Incorporated by One-Step Micro-Arc Oxidation: A Review. <i>Antibiotics</i> , 2020, 9, 716.	1.5	72
156	In vitro and in vivo evaluation of structurally-controlled silk fibroin coatings for orthopedic infection and in-situ osteogenesis. <i>Acta Biomaterialia</i> , 2020, 116, 223-245.	4.1	44
157	Graphdiyne-modified TiO ₂ nanofibers with osteoinductive and enhanced photocatalytic antibacterial activities to prevent implant infection. <i>Nature Communications</i> , 2020, 11, 4465.	5.8	233
158	Combating Implant Infections: Shifting Focus from Bacteria to Host. <i>Advanced Materials</i> , 2020, 32, e2002962.	11.1	119
159	Poly-L-lysine/Sodium Alginate Coating Loading Nanosilver for Improving the Antibacterial Effect and Inducing Mineralization of Dental Implants. <i>ACS Omega</i> , 2020, 5, 10562-10571.	1.6	29
160	Functionalized biomaterials to combat biofilms. <i>Biomaterials Science</i> , 2020, 8, 4052-4066.	2.6	42
161	Bioinspired surface hierarchical microstructures of Ti6Al4V alloy with a positive effect on osteoconduction. <i>Surface and Coatings Technology</i> , 2020, 388, 125594.	2.2	9
162	Improvement of antibacterial activity of hydrothermal treated TC4 substrate through an in-situ grown TiO ₂ /g-C ₃ N ₄ Z-scheme heterojunction film. <i>Journal of Alloys and Compounds</i> , 2020, 842, 155612.	2.8	19
163	Bacteria-Triggered pH-Responsive Osteopotentiating Coating on 3D-Printed Polyetheretherketone Scaffolds for Infective Bone Defect Repair. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 12123-12135.	1.8	42
164	Influence of silver speciation on the inflammatory regulation of AgNPs anchoring onto titania nanotubes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 194, 111199.	2.5	8
165	3D-Printed Titanium Cage with PVA-Vancomycin Coating Prevents Surgical Site Infections (SSIs). <i>Macromolecular Bioscience</i> , 2020, 20, e1900394.	2.1	18
166	Tannic Acid-Assisted Synthesis of Biodegradable and Antibacterial Mesoporous Organosilica Nanoparticles Decorated with Nanosilver. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 1695-1702.	3.2	31
167	Nanoparticles modified by polydopamine: Working as drug-carriers. <i>Bioactive Materials</i> , 2020, 5, 522-541.	8.6	203

#	ARTICLE	IF	CITATIONS
168	Fabrication of Durably Antibacterial Cotton Fabrics by Robust and Uniform Immobilization of Silver Nanoparticles via Mussel-Inspired Polydopamine/Polyethyleneimine Coating. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 9666-9678.	1.8	47
169	Bioinspired polydopamine/graphene oxide/collagen nanofilms as a controlled release carrier of bioactive substances. <i>Chemical Engineering Journal</i> , 2021, 405, 126930.	6.6	18
170	Rapid inactivation of multidrug-resistant bacteria and enhancement of osteoinduction via titania nanotubes grafted with polyguanidines. <i>Journal of Materials Science and Technology</i> , 2021, 69, 188-199.	5.6	31
171	Polyetheretherketone with citrate potentiated influx of copper boosts osteogenesis, angiogenesis, and bacteria-triggered antibacterial abilities. <i>Journal of Materials Science and Technology</i> , 2021, 71, 31-43.	5.6	15
172	Antibacterial surface design of biomedical titanium materials for orthopedic applications. <i>Journal of Materials Science and Technology</i> , 2021, 78, 51-67.	5.6	85
173	Nanostructured TiO ₂ layers on Ti for bone bonding. , 2021, , 25-76.		1
174	Strategic Advances in Spatiotemporal Control of Bioinspired Phenolic Chemistries in Materials Science. <i>Advanced Functional Materials</i> , 2021, 31, 2008821.	7.8	39
175	Recent Advances in a Polydopamine-Mediated Antimicrobial Adhesion System. <i>Frontiers in Microbiology</i> , 2020, 11, 607099.	1.5	70
176	Application of nanoparticles in bone tissue engineering; a review on the molecular mechanisms driving osteogenesis. <i>Biomaterials Science</i> , 2021, 9, 4541-4567.	2.6	24
177	Simultaneously constructing nanotopographical and chemical cues in 3D-printed polylactic acid scaffolds to promote bone regeneration. <i>Materials Science and Engineering C</i> , 2021, 118, 111457.	3.8	21
178	Nanostructured Bulk Titanium with Enhanced Propertiesâ€”Strategies and Prospects for Dental Applications. <i>Advanced Engineering Materials</i> , 2021, 23, 2000909.	1.6	10
179	Silver Nanoparticles Attenuate the Antimicrobial Activity of the Innate Immune System by Inhibiting Neutrophil-Mediated Phagocytosis and Reactive Oxygen Species Production. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 1345-1360.	3.3	11
180	Antimicrobial Properties of the Ag, Cu Nanoparticle System. <i>Biology</i> , 2021, 10, 137.	1.3	74
181	Imprinted Polymer Beads Loaded with Silver Nanoparticles for Antibacterial Applications. <i>ACS Applied Bio Materials</i> , 2021, 4, 2829-2838.	2.3	16
182	Unidirectional water-transport antibacterial trilayered nanofiber-based wound dressings induced by hydrophilic-hydrophobic gradient and self-pumping effects. <i>Materials and Design</i> , 2021, 201, 109461.	3.3	53
183	A review of hierarchical nanostructures of TiO ₂ : Advances and applications. <i>Applied Surface Science Advances</i> , 2021, 3, 100063.	2.9	119
184	Mussel bioinspired morphosynthesis of substrate anchored coreâ€”shell silver self-assemblies with multifunctionality for bioapplications. <i>Materials Science and Engineering C</i> , 2021, 123, 112025.	3.8	4
185	Reactive incorporation of Ag into porous TiO ₂ coating and its influence on its microstructure, in vitro antibacterial efficacy and cytocompatibility. <i>Progress in Natural Science: Materials International</i> , 2021, 31, 215-229.	1.8	26

#	ARTICLE	IF	CITATIONS
186	Antibacterial Titanium Implants Biofunctionalized by Plasma Electrolytic Oxidation with Silver, Zinc, and Copper: A Systematic Review. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3800.	1.8	35
187	High-Strength, Strongly Bonded Nanocomposite Hydrogels for Cartilage Repair. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 24505-24523.	4.0	50
188	Advanced Strategies of Biomimetic Tissue-Engineered Grafts for Bone Regeneration. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100408.	3.9	66
189	Enhancement of antibacterial property of titanium by two-step micro arc oxidation treatment. <i>Dental Materials Journal</i> , 2021, 40, 592-598.	0.8	16
190	Innovative Surface Modification Procedures to Achieve Micro/Nano-Graded Ti-Based Biomedical Alloys and Implants. <i>Coatings</i> , 2021, 11, 647.	1.2	24
191	Toward Bactericidal Enhancement of Additively Manufactured Titanium Implants. <i>Coatings</i> , 2021, 11, 668.	1.2	4
192	Silver-Releasing Micro-/Nanoporous Coating on Additively Manufactured Macroporous Ti-Ta-Nb-Zr Scaffolds with High Osseointegration and Antibacterial Properties. <i>Coatings</i> , 2021, 11, 716.	1.2	9
193	Microstructures of Ti6Al4V matrices induce structural evolution of bioactive surface oxide layers via cold compression and induction heating. <i>Applied Surface Science</i> , 2021, 552, 149504.	3.1	3
194	Understanding and optimizing the antibacterial functions of anodized nano-engineered titanium implants. <i>Acta Biomaterialia</i> , 2021, 127, 80-101.	4.1	79
195	Effects of silver nanoparticle-based antimicrobial formulations on the properties of denture polymer: A systematic review and meta-analysis of in vitro studies. <i>Journal of Prosthetic Dentistry</i> , 2023, 129, 310-321.	1.1	7
196	Surface adhesion of viruses and bacteria: Defend only and/or vibrationally extinguish also?! A perspective. <i>MRS Advances</i> , 2021, 6, 355-361.	0.5	4
197	Biomaterials and technologies in the management of periprosthetic infection after total hip arthroplasty: An updated review. <i>Journal of Musculoskeletal Surgery and Research</i> , 0, 5, 142-151.	0.2	2
198	Alternatives to Conventional Antibiotic Therapy: Potential Therapeutic Strategies of Combating Antimicrobial-Resistance and Biofilm-Related Infections. <i>Molecular Biotechnology</i> , 2021, 63, 1103-1124.	1.3	22
199	Investigation of the Long-Term Antibacterial Properties of Titanium by Two-Step Micro-Arc Oxidation Treatment. <i>Coatings</i> , 2021, 11, 798.	1.2	11
200	Self-assembled gelatin monolayer with coordinating regulation the composition, charge and wettability on the titanium surface. <i>Surfaces and Interfaces</i> , 2021, 25, 101281.	1.5	1
201	Towards prevention of biofilm formation: Ti6Al7Nb modified with nanocomposite layers of chitosan and Ag/Au nanoparticles. <i>Applied Surface Science</i> , 2021, 557, 149795.	3.1	22
202	Microbial Decontamination and Antibacterial Activity of Nanostructured Titanium Dental Implants: A Narrative Review. <i>Nanomaterials</i> , 2021, 11, 2336.	1.9	16
203	A review on the performance characteristics, applications, challenges and possible solutions in electron beam melted Ti-based orthopaedic and orthodontic implants. <i>Rapid Prototyping Journal</i> , 2022, 28, 525-545.	1.6	16

#	ARTICLE	IF	CITATIONS
204	Biological fabrication and electrostatic attractions of new layered silver/talc nanocomposite using Lawsonia inermis L. and its chitosan-capped inorganic/organic hybrid: Investigation on acceleration of Staphylococcus aureus and Pseudomonas aeruginosa infected wound healing. Materials Science and Engineering C, 2021, 128, 112294.	3.8	28
205	Drug-release dynamics and antibacterial activities of chitosan/cefazolin coatings on Ti implants. Progress in Organic Coatings, 2021, 159, 106385.	1.9	12
206	Sputter-deposited TaCuN films: Structure, tribological and biomedical properties. Applied Surface Science, 2021, 567, 150796.	3.1	7
207	Meeting the challenges and clinical requirements for dental regeneration; the New Zealand experience. Bone, 2022, 154, 116181.	1.4	2
208	Surface modification of titanium implants by silk fibroin/Ag co-functionalized strontium titanate nanotubes for inhibition of bacterial-associated infection and enhancement of in vivo osseointegration. Surface and Coatings Technology, 2021, 405, 126700.	2.2	52
209	Fabrication of SiO ₂ nanoparticles incorporated coating onto titanium substrates by the micro arc oxidation to improve the wear resistance. Surface and Coatings Technology, 2019, 364, 180-186.	2.2	47
210	Characterization and Investigation of Biological Properties of Ag-Doped TiO ₂ Coatings Fabricated on Titanium. Anadolu University Journal of Sciences & Technology, 0, , .	0.2	1
211	Drug Delivery Systems Based on Titania Nanotubes and Active Agents for Enhanced Osseointegration of Bone Implants. Current Medicinal Chemistry, 2020, 27, 854-902.	1.2	22
212	The Impact of Engineered Silver Nanomaterials on the Immune System. Nanomaterials, 2020, 10, 967.	1.9	36
213	Green Synthesis and Characterization of Silver Nanoparticles from Crocus Mathewii; A Disremembered Turkish Flowering Plant. Indian Journal of Pharmaceutical Sciences, 2017, 79, .	1.0	5
214	The synergistic effect of Ag and ZnO on the microstructure, corrosion resistance and in vitro biological performance of titania coating. Surface and Coatings Technology, 2021, 426, 127798.	2.2	11
215	Biomimetic Inorganic Nanoparticle-Loaded Silk Fibroin-Based Coating with Enhanced Antibacterial and Osteogenic Abilities. ACS Omega, 2021, 6, 30027-30039.	1.6	5
216	Self-Healing Hydrogels: Preparation, Mechanism and Advancement in Biomedical Applications. Polymers, 2021, 13, 3782.	2.0	55
217	Mussel-Inspired Carboxymethyl Chitosan Hydrogel Coating of Titanium Alloy with Antibacterial and Bioactive Properties. Materials, 2021, 14, 6901.	1.3	6
218	Multifunctional Magnesium Organic Framework-Based Microneedle Patch for Accelerating Diabetic Wound Healing. ACS Nano, 2021, 15, 17842-17853.	7.3	148
219	Substrate-independent adsorption of nanoparticles as anti-biofilm coatings. Biomaterials Science, 2022, 10, 410-422.	2.6	9
220	Copper Surface Treatment Method with Antibacterial Performance Using "Super-Spread Wetting" Properties. Materials, 2022, 15, 392.	1.3	6
221	Surface Functionalization of Titanium for the Control and Treatment of Infections. Springer Series in Biomaterials Science and Engineering, 2022, , 195-212.	0.7	0

#	ARTICLE	IF	CITATIONS
222	Polydopamine-Induced Modification on the Highly Charged Surface of Asymmetric Nanofluidics: A Strategy for Adjustable Ion Current Rectification Properties. <i>Analytical Chemistry</i> , 2022, 94, 2493-2501.	3.2	9
223	Physical characterization and biological tests of bioactive titanium surfaces prepared by short-time micro-arc oxidation in green electrolyte. <i>Materials Research Express</i> , 2022, 9, 025401.	0.8	4
224	Antibacterial activity and cytotoxicity of bioinspired poly(L-DOPA)-mediated silver nanostructure-decorated titanium dioxide nanowires. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 639, 128350.	2.3	1
225	Laser-triggered Interfacial Generation of ROS Promotes a Rapid Fabrication of Polydopamine Coating. <i>Macromolecular Materials and Engineering</i> , 0, , 2100987.	1.7	0
226	Preparation of mussel-inspired silver/polydopamine antibacterial biofilms on Ti-6Al-4V for dental applications. <i>RSC Advances</i> , 2022, 12, 6641-6648.	1.7	4
227	Recent Advances and Mechanistic Insights into Antibacterial Activity, Antibiofilm Activity, and Cytotoxicity of Silver Nanoparticles. <i>ACS Applied Bio Materials</i> , 2022, 5, 1391-1463.	2.3	69
228	Bioinspired Topographic Surface Modification of Biomaterials. <i>Materials</i> , 2022, 15, 2383.	1.3	8
229	Advanced Surface Modification for 3D-Printed Titanium Alloy Implant Interface Functionalization. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 850110.	2.0	17
230	Superhydrophobic, corrosion resistance, and antibacterial coating with delayed release of Ag ions. <i>Composites Communications</i> , 2022, 31, 101134.	3.3	13
231	Impressive strides in antibacterial performance amelioration of Ti-based implants via plasma electrolytic oxidation (PEO): A review of the recent advancements. <i>Chemical Engineering Journal</i> , 2022, 441, 136003.	6.6	50
232	Hybrid TiO ₂ /AgNPs/g-C ₃ N ₄ nanocomposite coatings on TC4 titanium alloy for enhanced synergistic antibacterial effect under full spectrum light. <i>Journal of Materials Science and Technology</i> , 2022, 118, 35-43.	5.6	11
233	Development of Novel Implant Material Surface with Controllable Antibacterial Properties. <i>Denki Kagaku</i> , 2021, 89, 346-352.	0.0	0
234	Î ² duplex phase Ti-Zr-Nb-Ag alloys with impressive mechanical properties, excellent antibacterial and good biocompatibility. <i>Journal of Materials Research and Technology</i> , 2022, 19, 5008-5016.	2.6	8
235	Carboxymethyl Dextran-Based Nanomicelle Coatings on Microarc Oxidized Titanium Surface for Percutaneous Implants: Drug Release, Antibacterial Properties, and Biocompatibility. <i>BioMed Research International</i> , 2022, 2022, 1-19.	0.9	3
236	Ultra-high flux and synergistically enhanced anti-fouling Ag@MXene lamellar membrane for the fast purification of oily wastewater through nano-intercalation, photocatalytic self-cleaning and antibacterial effect. <i>Separation and Purification Technology</i> , 2022, 298, 121635.	3.9	37
237	The Antibacterial and Cytotoxic Effects of Silver Nanoparticles Coated Titanium Implants: A Narrative Review. <i>Materials</i> , 2022, 15, 5025.	1.3	16
238	Polydopamine and Magnesium Ions Loaded 3D-Printed Ti-6Al-4V Implants Coating with Enhanced Osteogenesis and Antibacterial Abilities. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	2
239	Supramolecular iron phthalocyanine organic polymer with robust built-in electric field and shorter migration distance for photocatalytic pollutant degradation and antibacterial. <i>Separation and Purification Technology</i> , 2022, 301, 122026.	3.9	7

#	ARTICLE	IF	CITATIONS
240	MOF-derived CuO@ZnO modified titanium implant for synergistic antibacterial ability, osteogenesis and angiogenesis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 219, 112840.	2.5	13
241	Current challenges and future applications of antibacterial nanomaterials and chitosan hydrogel in burn wound healing. <i>Materials Advances</i> , 2022, 3, 6707-6727.	2.6	10
242	ALD-induced TiO ₂ /Ag nanofilm for rapid surface photodynamic ion sterilization. <i>Rare Metals</i> , 2022, 41, 4138-4148.	3.6	19
243	Developing a Versatile Multiscale Therapeutic Platform for Osteosarcoma Synergistic Photothermo-Chemotherapy with Effective Osteogenicity and Antibacterial Capability. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 44065-44083.	4.0	15
244	Remote Eradication of Bacteria on Orthopedic Implants via Delayed Delivery of Polycaprolactone Stabilized Polyvinylpyrrolidone Iodine. <i>Journal of Functional Biomaterials</i> , 2022, 13, 195.	1.8	2
245	In vitro application of drug-loaded hydrogel combined with 3D-printed porous scaffolds. <i>Biomedical Materials (Bristol)</i> , 2022, 17, 065019.	1.7	6
246	A homogeneous dopamine-silver nanocomposite coating: striking a balance between the antibacterial ability and cytocompatibility of dental implants. <i>International Journal of Energy Production and Management</i> , 2023, 10, .	1.9	3
247	Functionalization of TiO ₂ for Better Performance as Orthopedic Implants. <i>Materials</i> , 2022, 15, 6868.	1.3	2
248	Bi-functionalization of titanium with a mixture of peptides for improving its osteogenic and antibacterial activity. <i>Colloids and Interface Science Communications</i> , 2022, 51, 100673.	2.0	2
249	Research progress of stimulus-responsive antibacterial materials for bone infection. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	2.0	2
250	Design, printing, and engineering of regenerative biomaterials for personalized bone healthcare. <i>Progress in Materials Science</i> , 2023, 134, 101072.	16.0	32
251	Regulation of Staphylococcus aureus Virulence and Application of Nanotherapeutics to Eradicate S. aureus Infection. <i>Pharmaceutics</i> , 2023, 15, 310.	2.0	6
252	A novel dual-functional coating based on curcumin/APEG polymer with antibacterial and antifouling properties. <i>Applied Surface Science</i> , 2023, 627, 157224.	3.1	3
253	Antibacterial coatings on orthopedic implants. <i>Materials Today Bio</i> , 2023, 19, 100586.	2.6	18
254	Microenvironment responsive nanocomposite hydrogel with NIR photothermal therapy, vascularization and anti-inflammation for diabetic infected wound healing. <i>Bioactive Materials</i> , 2023, 26, 306-320.	8.6	29
255	Local Therapy from Nano-engineered Titanium Dental Implants. , 2023, , 153-198.		0
256	Zinc-Based Tannin-Modified Composite Microparticulate Scaffolds with Balanced Antimicrobial Activity and Osteogenesis for Infected Bone Defect Repair. <i>Advanced Healthcare Materials</i> , 2023, 12, .	3.9	15
257	Craniofacial therapy: advanced local therapies from nano-engineered titanium implants to treat craniofacial conditions. <i>International Journal of Oral Science</i> , 2023, 15, .	3.6	7

#	ARTICLE	IF	CITATIONS
258	Review of Antimicrobial Nanocoatings in Medicine and Dentistry: Mechanisms of Action, Biocompatibility Performance, Safety, and Benefits Compared to Antibiotics. <i>ACS Nano</i> , 2023, 17, 7064-7092.	7.3	25
259	An intriguing approach toward antibacterial activity of green synthesized Rutin-templated mesoporous silica nanoparticles decorated with nanosilver. <i>Scientific Reports</i> , 2023, 13, .	1.6	32
261	Role of medicinal herbs and phytochemicals in post burn management. <i>Inflammopharmacology</i> , 2023, 31, 1695-1714.	1.9	1
279	Superwetable surfaces and factors impacting microbial adherence in microbiologically-influenced corrosion: a review. <i>World Journal of Microbiology and Biotechnology</i> , 2024, 40, .	1.7	0
282	Nanoparticles for the Prevention and Treatment of Bacterial Biofilms on Orthopedic Implants. <i>Advances in Bioinformatics and Biomedical Engineering Book Series</i> , 2024, , 208-245.	0.2	0