Yong Han

List of Publications by Year
in descending order

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58 papers	3,931 citations	159525 30 h-index	149623 56 g-index
58 all docs	58 docs citations	58 times ranked	4033 citing authors

#	Article	IF	Citations
1	Formation of a ZnO nanorods-patterned coating with strong bactericidal capability and quantitative evaluation of the contribution of nanorods-derived puncture and ROS-derived killing. Bioactive Materials, 2022, 11, 181-191.	8.6	18
2	High-strength anti-bacterial composite cryogel for lethal noncompressible hemorrhage hemostasis: Synergistic physical hemostasis and chemical hemostasis. Chemical Engineering Journal, 2022, 427, 131977.	6.6	60
3	Building biointegration of Fe2O3â€“FeOOH coated titanium implant by regulating NIR irradiation in an infected model. Bioactive Materials, 2022, 8, 1-11.	8.6	17
4	Biomimetic, highly elastic conductive and hemostatic gelatin/rGO-based nanocomposite cryogel to improve 3D myogenic differentiation and guide in vivo skeletal muscle regeneration. Applied Materials Today, 2022, 26, 101365.	2.3	14
5	2D Molybdenum Sulfideâ€Based Materials for Photoâ€Excited Antibacterial Application. Advanced Healthcare Materials, 2022, 11, e2200360.	3.9	24
6	Eco-friendly bacteria-killing by nanorods through mechano-puncture with top selectivity. Bioactive Materials, 2022, 15, 173-184.	8.6	10
7	pH-Responsive ECM Coating on Ti Implants for Antibiosis in Reinfected Models. ACS Applied Bio Materials, 2022, 5, 344-354.	2.3	7
8	Microwave assisted antibacterial action of Garcinia nanoparticles on Gram-negative bacteria. Nature Communications, 2022, 13, 2461.	5.8	49
9	Antimicrobial Peptide-Loaded Pectolite Nanorods for Enhancing Wound-Healing and Biocidal Activity of Titanium. ACS Applied Materials & Interfaces, 2021, 13, 28764-28773.	4.0	27
10	Visual and antibacterial magnesium implants with low biocorrosion and bioactive surface for in vivo tracking and treating MRSA infection. Chemical Engineering Journal, 2021, 417, 129198.	6.6	6
11	BSA-lysozyme coated NaCa2HSi3O9 nanorods on titanium for cytocompatibility and antibacterial activity. Journal of Materials Science and Technology, 2021, 88, 240-249.	5.6	10
12	Polymer brush grafted antimicrobial peptide on hydroxyapatite nanorods for highly effective antibacterial performance. Chemical Engineering Journal, 2021, 423, 130133.	6.6	46
13	Biomimetic Elastomeric Bioactive Siloxaneâ€Based Hybrid Nanofibrous Scaffolds with miRNA Activation: A Joint Physicoâ€Chemicalâ€Biological Strategy for Promoting Bone Regeneration. Advanced Functional Materials, 2020, 30, 1906013.	7.8	32
14	Silanized NaCa₂HSi₃O₉ nanorods with a reduced pH increase on Ti for improving osteogenesis and angiogenesis in vitro. Journal of Materials Chemistry B, 2020, 8, 691-702.	2.9	17
15	Î²-FeOOH/Fe-TiO₂ heterojunctions on Ti for bacteria inactivation under light irradiation and biosealing. Biomaterials Science, 2020, 8, 6004-6016.	2.6	11
16	Hydrothermally grown TiO2-nanorods on surface mechanical attrition treated Ti: Improved corrosion fatigue and osteogenesis. Acta Biomaterialia, 2020, 116, 400-414.	4.1	28
17	Degradable Gelatin-Based IPN Cryogel Hemostat for Rapidly Stopping Deep Noncompressible Hemorrhage and Simultaneously Improving Wound Healing. Chemistry of Materials, 2020, 32, 6595-6610.	3.2	265
18	Treatment of MRSA-infected osteomyelitis using bacterial capturing, magnetically targeted composites with microwave-assisted bacterial killing. Nature Communications, 2020, 11, 4446.	5.8	165

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19	Ca substitution of Sr in Sr-doped TiO2 nanotube film on Ti surface for enhanced osteogenic activity. Applied Surface Science, 2020, 528, 147055.	3.1	15
20	Near-Infrared Light Triggered Phototherapy and Immunotherapy for Elimination of Methicillin-Resistant Staphylococcus aureus Biofilm Infection on Bone Implant. ACS Nano, 2020, 14, 8157-8170.	7.3	133
21	Physical Doubleâ€Network Hydrogel Adhesives with Rapid Shape Adaptability, Fast Selfâ€Healing, Antioxidant and NIR/pH Stimulusâ€Responsiveness for Multidrugâ€Resistant Bacterial Infection and Removable Wound Dressing. Advanced Functional Materials, 2020, 30, 1910748.	7.8	503
22	Si substituted hydroxyapatite nanorods on Ti for percutaneous implants. Bioactive Materials, 2020, 5, 116-123.	8.6	35
23	Fabrication of Collagen Films with Enhanced Mechanical and Enzymatic Stability through Thermal Treatment in Fluorous Media. ACS Applied Materials & Interfaces, 2020, 12, 6590-6597.	4.0	18
24	Rapid Photo-Sonotherapy for Clinical Treatment of Bacterial Infected Bone Implants by Creating Oxygen Deficiency Using Sulfur Doping. ACS Nano, 2020, 14, 2077-2089.	7.3	182
25	Enhanced osteogenic differentiation of osteoblasts on CaTiO3 nanotube film. Colloids and Surfaces B: Biointerfaces, 2020, 187, 110773.	2.5	12
26	Engineered probiotics biofilm enhances osseointegration via immunoregulation and anti-infection. Science Advances, 2020, 6, .	4.7	82
27	Lysozyme-Assisted Photothermal Eradication of Methicillin-Resistant Staphylococcus aureus Infection and Accelerated Tissue Repair with Natural Melanosome Nanostructures. ACS Nano, 2019, 13, 11153-11167.	7.3	74
28	Magnetic hydroxyapatite nanotubes on micro-arc oxidized titanium for drug loading. Materials Research Express, 2019, 6, 095091.	0.8	2
29	A superparamagnetic Fe₃O₄â€“TiO₂ composite coating on titanium by micro-arc oxidation for percutaneous implants. Journal of Materials Chemistry B, 2019, 7, 5265-5276.	2.9	27
30	Mussel-inspired, antibacterial, conductive, antioxidant, injectable composite hydrogel wound dressing to promote the regeneration of infected skin. Journal of Colloid and Interface Science, 2019, 556, 514-528.	5.0	434
31	Magnetic Silicium Hydroxyapatite Nanorods for Enhancing Osteoblast Response in Vitro and Biointegration in Vivo. ACS Biomaterials Science and Engineering, 2019, 5, 2208-2221.	2.6	21
32	Nanorod diameter modulated osteogenic activity of hierarchical micropore/nanorod-patterned coatings via a Wnt/Î²-catenin pathway. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 1719-1731.	1.7	19
33	F-doped TiO2 microporous coating on titanium with enhanced antibacterial and osteogenic activities. Scientific Reports, 2018, 8, 17858.	1.6	42
34	Electrically bioactive coating on Ti with bi-layered SnO₂â€“TiO₂ hetero-structure for improving osteointegration. Journal of Materials Chemistry B, 2018, 6, 3989-3998.	2.9	5
35	Intrinsically ferromagnetic Fe-doped TiO₂ coatings on titanium for accelerating osteoblast response in vitro. Journal of Materials Chemistry B, 2018, 6, 5756-5767.	2.9	32
36	Enhanced Osseointegration of Hierarchically Structured Ti Implant with Electrically Bioactive SnO₂â€“TiO₂ Bilayered Surface. ACS Applied Materials & Interfaces, 2018, 10, 30191-30200.	4.0	26

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37	Enhancement in Sustained Release of Antimicrobial Peptide from Dual-Diameter-Structured TiO₂ Nanotubes for Long-Lasting Antibacterial Activity and Cytocompatibility. ACS Applied Materials & Interfaces, 2017, 9, 9449-9461.	4.0	53
38	Effect of nano/micro-Ag compound particles on the bio-corrosion, antibacterial properties and cell biocompatibility of Ti-Ag alloys. Materials Science and Engineering C, 2017, 75, 906-917.	3.8	102
39	F-Doped Micropore/Nanorod Hierarchically Patterned Coatings for Improving Antibacterial and Osteogenic Activities of Bone Implants in Bacteria-Infected Cases. ACS Biomaterials Science and Engineering, 2017, 3, 1437-1450.	2.6	26
40	Formation mechanism and cytocompatibility of nano-shaped calcium silicate hydrate/calcium titanium silicate/TiO₂ composite coatings on titanium. Journal of Materials Chemistry B, 2016, 4, 6734-6745.	2.9	14
41	Antibacterial Activity of Silver Doped Titanate Nanowires on Ti Implants. ACS Applied Materials & Interfaces, 2016, 8, 16584-16594.	4.0	102
42	The osteogenic capacity of biomimetic hierarchical micropore/nanorod-patterned Sr-HA coatings with different interrod spacings. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 1161-1173.	1.7	52
43	Direct role of interrod spacing in mediating cell adhesion on Sr-HA nanorod-patterned coatings. International Journal of Nanomedicine, 2014, 9, 1243.	3.3	40
44	Formation Mechanism, Degradation Behavior, and Cytocompatibility of a Nanorod-Shaped HA and Pore-Sealed MgO Bilayer Coating on Magnesium. ACS Applied Materials & Interfaces, 2014, 6, 18258-18274.	4.0	77
45	Bone integration capability of a series of strontiumâ€containing hydroxyapatite coatings formed by microâ€arc oxidation. Journal of Biomedical Materials Research - Part A, 2013, 101A, 2465-2480.	2.1	84
46	Regulation of Osteoblast Proliferation and Differentiation by Interrod Spacing of Sr-HA Nanorods on Microporous Titania Coatings. ACS Applied Materials & Interfaces, 2013, 5, 5358-5365.	4.0	102
47	Enhanced osteoblast functions of narrow interligand spaced Sr-HA nano-fibers/rods grown on microporous titania coatings. RSC Advances, 2013, 3, 11169.	1.7	47
48	A multi-scaled hybrid orthopedic implant: bone ECM-shaped Sr-HA nanofibers on the microporous walls of a macroporous titanium scaffold. Nanotechnology, 2011, 22, 275603.	1.3	37
49	Microstructure and bioactivity of Ca, P and Sr doped TiO2 coating formed on porous titanium by micro-arc oxidation. Surface and Coatings Technology, 2010, 205, 1702-1713.	2.2	72
50	UV-enhanced bioactivity and cell response of micro-arc oxidized titania coatings. Acta Biomaterialia, 2008, 4, 1518-1529.	4.1	205
51	Structure and in vitro bioactivity of titania-based films by micro-arc oxidation. Surface and Coatings Technology, 2003, 168, 249-258.	2.2	213
52	Evaluation of nanostructured carbonated hydroxyapatite coatings formed by a hybrid process of plasma spraying and hydrothermal synthesis. Journal of Biomedical Materials Research Part B, 2002, 60, 511-516.	3.0	36
53	Characterization and stability of hydroxyapatite coatings prepared by an electrodeposition and alkaline-treatment process. Journal of Biomedical Materials Research Part B, 2001, 54, 96-101.	3.0	97
54	Characterization and stability of hydroxyapatite coatings prepared by an electrodeposition and alkalineâ€treatment process. Journal of Biomedical Materials Research Part B, 2001, 54, 96-101.	3.0	1

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55	Residual stresses in plasma-sprayed hydroxyapatite coatings. Journal of Materials Science Letters, 1999, 18, 1087-1089.	0.5	11
56	Morphology and composition of hydroxyapatite coatings prepared by hydrothermal treatment on electrodeposited brushite coatings. Journal of Materials Science: Materials in Medicine, 1999, 10, 243-248.	1.7	65
57	The structural characteristics and mechanical behaviors of nonstoichiometric apatite coatings sintered in air atmosphere. , 1999, 45, 198-203.		27
58	Improved Corrosion Fatigue and Immunomodulatory Osteogenesis of Hydrothermally Grown TiO ₂ Nanorods Coated SMATed-Titanium. SSRN Electronic Journal, 0, , .	0.4	0