

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	Physical Double- π -Network Hydrogel Adhesives with Rapid Shape Adaptability, Fast Self-Healing, Antioxidant and NIR/pH Stimulus-Responsiveness for Multidrug-Resistant Bacterial Infection and Removable Wound Dressing. <i>Advanced Functional Materials</i> , 2020, 30, 1910748.	7.8	503
2	Mussel-inspired, antibacterial, conductive, antioxidant, injectable composite hydrogel wound dressing to promote the regeneration of infected skin. <i>Journal of Colloid and Interface Science</i> , 2019, 556, 514-528.	5.0	434
3	Degradable Gelatin-Based IPN Cryogel Hemostat for Rapidly Stopping Deep Noncompressible Hemorrhage and Simultaneously Improving Wound Healing. <i>Chemistry of Materials</i> , 2020, 32, 6595-6610.	3.2	265
4	Structure and in vitro bioactivity of titania-based films by micro-arc oxidation. <i>Surface and Coatings Technology</i> , 2003, 168, 249-258.	2.2	213
5	UV-enhanced bioactivity and cell response of micro-arc oxidized titania coatings. <i>Acta Biomaterialia</i> , 2008, 4, 1518-1529.	4.1	205
6	Rapid Photo-Sonotherapy for Clinical Treatment of Bacterial Infected Bone Implants by Creating Oxygen Deficiency Using Sulfur Doping. <i>ACS Nano</i> , 2020, 14, 2077-2089.	7.3	182
7	Treatment of MRSA-infected osteomyelitis using bacterial capturing, magnetically targeted composites with microwave-assisted bacterial killing. <i>Nature Communications</i> , 2020, 11, 4446.	5.8	165
8	Near-Infrared Light Triggered Phototherapy and Immunotherapy for Elimination of Methicillin-Resistant <i>Staphylococcus aureus</i> Biofilm Infection on Bone Implant. <i>ACS Nano</i> , 2020, 14, 8157-8170.	7.3	133
9	Regulation of Osteoblast Proliferation and Differentiation by Interrod Spacing of Sr-HA Nanorods on Microporous Titania Coatings. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5358-5365.	4.0	102
10	Antibacterial Activity of Silver Doped Titanate Nanowires on Ti Implants. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16584-16594.	4.0	102
11	Effect of nano/micro-Ag compound particles on the bio-corrosion, antibacterial properties and cell biocompatibility of Ti-Ag alloys. <i>Materials Science and Engineering C</i> , 2017, 75, 906-917.	3.8	102
12	Characterization and stability of hydroxyapatite coatings prepared by an electrodeposition and alkaline-treatment process. <i>Journal of Biomedical Materials Research Part B</i> , 2001, 54, 96-101.	3.0	97
13	Bone integration capability of a series of strontium-containing hydroxyapatite coatings formed by micro-arc oxidation. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 2465-2480.	2.1	84
14	Engineered probiotics biofilm enhances osseointegration via immunoregulation and anti-infection. <i>Science Advances</i> , 2020, 6, .	4.7	82
15	Formation Mechanism, Degradation Behavior, and Cytocompatibility of a Nanorod-Shaped HA and Pore-Sealed MgO Bilayer Coating on Magnesium. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18258-18274.	4.0	77
16	Lysozyme-Assisted Photothermal Eradication of Methicillin-Resistant <i>Staphylococcus aureus</i> Infection and Accelerated Tissue Repair with Natural Melanosome Nanostructures. <i>ACS Nano</i> , 2019, 13, 11153-11167.	7.3	74
17	Microstructure and bioactivity of Ca, P and Sr doped TiO ₂ coating formed on porous titanium by micro-arc oxidation. <i>Surface and Coatings Technology</i> , 2010, 205, 1702-1713.	2.2	72
18	Morphology and composition of hydroxyapatite coatings prepared by hydrothermal treatment on electrodeposited brushite coatings. <i>Journal of Materials Science: Materials in Medicine</i> , 1999, 10, 243-248.	1.7	65

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19	High-strength anti-bacterial composite cryogel for lethal noncompressible hemorrhage hemostasis: Synergistic physical hemostasis and chemical hemostasis. <i>Chemical Engineering Journal</i> , 2022, 427, 131977.	6.6	60
20	Enhancement in Sustained Release of Antimicrobial Peptide from Dual-Diameter-Structured TiO ₂ Nanotubes for Long-Lasting Antibacterial Activity and Cytocompatibility. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9449-9461.	4.0	53
21	The osteogenic capacity of biomimetic hierarchical micropore/nanorod-patterned Sr-HA coatings with different interrod spacings. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 1161-1173.	1.7	52
22	Microwave assisted antibacterial action of Garcinia nanoparticles on Gram-negative bacteria. <i>Nature Communications</i> , 2022, 13, 2461.	5.8	49
23	Enhanced osteoblast functions of narrow interligand spaced Sr-HA nano-fibers/rods grown on microporous titania coatings. <i>RSC Advances</i> , 2013, 3, 11169.	1.7	47
24	Polymer brush grafted antimicrobial peptide on hydroxyapatite nanorods for highly effective antibacterial performance. <i>Chemical Engineering Journal</i> , 2021, 423, 130133.	6.6	46
25	F-doped TiO ₂ microporous coating on titanium with enhanced antibacterial and osteogenic activities. <i>Scientific Reports</i> , 2018, 8, 17858.	1.6	42
26	Direct role of interrod spacing in mediating cell adhesion on Sr-HA nanorod-patterned coatings. <i>International Journal of Nanomedicine</i> , 2014, 9, 1243.	3.3	40
27	A multi-scaled hybrid orthopedic implant: bone ECM-shaped Sr-HA nanofibers on the microporous walls of a macroporous titanium scaffold. <i>Nanotechnology</i> , 2011, 22, 275603.	1.3	37
28	Evaluation of nanostructured carbonated hydroxyapatite coatings formed by a hybrid process of plasma spraying and hydrothermal synthesis. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 60, 511-516.	3.0	36
29	Si substituted hydroxyapatite nanorods on Ti for percutaneous implants. <i>Bioactive Materials</i> , 2020, 5, 116-123.	8.6	35
30	Intrinsically ferromagnetic Fe-doped TiO ₂ coatings on titanium for accelerating osteoblast response <i>in vitro</i> . <i>Journal of Materials Chemistry B</i> , 2018, 6, 5756-5767.	2.9	32
31	Biomimetic Elastomeric Bioactive Siloxane-Based Hybrid Nanofibrous Scaffolds with miRNA Activation: A Joint Physico-Chemical-Biological Strategy for Promoting Bone Regeneration. <i>Advanced Functional Materials</i> , 2020, 30, 1906013.	7.8	32
32	Hydrothermally grown TiO ₂ -nanorods on surface mechanical attrition treated Ti: Improved corrosion fatigue and osteogenesis. <i>Acta Biomaterialia</i> , 2020, 116, 400-414.	4.1	28
33	The structural characteristics and mechanical behaviors of nonstoichiometric apatite coatings sintered in air atmosphere. <i>J Biomed Mater Res</i> , 1999, 45, 198-203.		27
34	A superparamagnetic Fe ₃ O ₄ @TiO ₂ composite coating on titanium by micro-arc oxidation for percutaneous implants. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5265-5276.	2.9	27
35	Antimicrobial Peptide-Loaded Pectolite Nanorods for Enhancing Wound-Healing and Biocidal Activity of Titanium. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28764-28773.	4.0	27
36	F-Doped Micropore/Nanorod Hierarchically Patterned Coatings for Improving Antibacterial and Osteogenic Activities of Bone Implants in Bacteria-Infected Cases. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1437-1450.	2.6	26

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37	Enhanced Osseointegration of Hierarchically Structured Ti Implant with Electrically Bioactive SnO ₂ /TiO ₂ Bilayered Surface. ACS Applied Materials & Interfaces, 2018, 10, 30191-30200.	4.0	26
38	2D Molybdenum Sulfide-Based Materials for Photo-Excited Antibacterial Application. Advanced Healthcare Materials, 2022, 11, e2200360.	3.9	24
39	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
40	Nanorod diameter modulated osteogenic activity of hierarchical micropore/nanorod-patterned coatings via a Wnt/ β -catenin pathway. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 1719-1731.	1.7	19
41	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
42	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
43	Silanized NaCa ₂ HSi ₃ O ₉ nanorods with a reduced pH increase on Ti for improving osteogenesis and angiogenesis <i>in vitro</i> . Journal of Materials Chemistry B, 2020, 8, 691-702.	2.9	17
44	Building biointegration of Fe ₂ O ₃ /FeOOH coated titanium implant by regulating NIR irradiation in an infected model. Bioactive Materials, 2022, 8, 1-11.	8.6	17
45	Ca substitution of Sr in Sr-doped TiO ₂ nanotube film on Ti surface for enhanced osteogenic activity. Applied Surface Science, 2020, 528, 147055.	3.1	15
46	Formation mechanism and cytocompatibility of nano-shaped calcium silicate hydrate/calcium titanium silicate/TiO ₂ composite coatings on titanium. Journal of Materials Chemistry B, 2016, 4, 6734-6745.	2.9	14
47	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
48	Enhanced osteogenic differentiation of osteoblasts on CaTiO ₃ nanotube film. Colloids and Surfaces B: Biointerfaces, 2020, 187, 110773.	2.5	12
49	Residual stresses in plasma-sprayed hydroxyapatite coatings. Journal of Materials Science Letters, 1999, 18, 1087-1089.	0.5	11
50	β -FeOOH/Fe-TiO ₂ heterojunctions on Ti for bacteria inactivation under light irradiation and biosealing. Biomaterials Science, 2020, 8, 6004-6016.	2.6	11
51	BSA-lysozyme coated NaCa ₂ HSi ₃ O ₉ nanorods on titanium for cytocompatibility and antibacterial activity. Journal of Materials Science and Technology, 2021, 88, 240-249.	5.6	10
52	Eco-friendly bacteria-killing by nanorods through mechano-puncture with top selectivity. Bioactive Materials, 2022, 15, 173-184.	8.6	10
53	pH-Responsive ECM Coating on Ti Implants for Antibiosis in Reinfected Models. ACS Applied Bio Materials, 2022, 5, 344-354.	2.3	7
54	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

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55	Electrically bioactive coating on Ti with bi-layered SnO ₂ â€“TiO ₂ hetero-structure for improving osteointegration. Journal of Materials Chemistry B, 2018, 6, 3989-3998.	2.9	5
56	Magnetic hydroxyapatite nanotubes on micro-arc oxidized titanium for drug loading. Materials Research Express, 2019, 6, 095091.	0.8	2
57	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
58	Improved Corrosion Fatigue and Immunomodulatory Osteogenesis of Hydrothermally Grown TiO ₂ Nanorods Coated SMATed-Titanium. SSRN Electronic Journal, 0, , .	0.4	0