Jinhua Li

List of Publications by Year in descending order

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52 papers	3,829 citations	109137 35 h-index	174990 52 g-index
52 all docs	52 docs citations	52 times ranked	5446 citing authors

#	Article	IF	Citations
1	3D printing of hydrogels: Rational design strategies and emerging biomedical applications. Materials Science and Engineering Reports, 2020, 140, 100543.	14.8	494
2	Antibacterial activity of large-area monolayer graphene film manipulated by charge transfer. Scientific Reports, 2014, 4, 4359.	1.6	342
3	Influence of sulfur content on bone formation and antibacterial ability of sulfonated PEEK. Biomaterials, 2016, 83, 115-126.	5.7	189
4	Zincâ€Modified Sulfonated Polyetheretherketone Surface with Immunomodulatory Function for Guiding Cell Fate and Bone Regeneration. Advanced Science, 2018, 5, 1800749.	5.6	184
5	3D printing of functional microrobots. Chemical Society Reviews, 2021, 50, 2794-2838.	18.7	178
6	Tailoring Materials for Modulation of Macrophage Fate. Advanced Materials, 2021, 33, e2004172.	11.1	141
7	A surface-engineered polyetheretherketone biomaterial implant with direct and immunoregulatory antibacterial activity against methicillin-resistant Staphylococcus aureus. Biomaterials, 2019, 208, 8-20.	5.7	122
8	TRPM7 kinase-mediated immunomodulation in macrophage plays a central role in magnesium ion-induced bone regeneration. Nature Communications, 2021, 12, 2885.	5.8	118
9	Valence State Manipulation of Cerium Oxide Nanoparticles on a Titanium Surface for Modulating Cell Fate and Bone Formation. Advanced Science, 2018, 5, 1700678.	5.6	114
10	Surface thermal oxidation on titanium implants to enhance osteogenic activity and in vivo osseointegration. Scientific Reports, 2016, 6, 31769.	1.6	112
11	Antibacterial Surface Design of Titanium-Based Biomaterials for Enhanced Bacteria-Killing and Cell-Assisting Functions Against Periprosthetic Joint Infection. ACS Applied Materials & Interfaces, 2016, 8, 11162-11178.	4.0	95
12	Silver-nanoparticles-modified biomaterial surface resistant to staphylococcus: new insight into the antimicrobial action of silver. Scientific Reports, 2016, 6, 32699.	1.6	90
13	Solution-processable organic and hybrid gate dielectrics for printed electronics. Materials Science and Engineering Reports, 2018, 127, 1-36.	14.8	79
14	Antibacterial property, angiogenic and osteogenic activity of Cu-incorporated TiO₂ coating. Journal of Materials Chemistry B, 2014, 2, 6738-6748.	2.9	75
15	Effects of a hybrid micro/nanorod topography-modified titanium implant on adhesion and osteogenic differentiation in rat bone marrow mesenchymal stem cells. International Journal of Nanomedicine, 2013, 8, 257.	3.3	70
16	Butyrate-inserted Niâ€“Ti layered double hydroxide film for H2O2-mediated tumor and bacteria killing. Materials Today, 2017, 20, 238-257.	8.3	70
17	Antimicrobial activity and cytocompatibility of Ag plasma-modified hierarchical TiO2 film on titanium surface. Colloids and Surfaces B: Biointerfaces, 2014, 113, 134-145.	2.5	66
18	Biofunctionalization of a titanium surface with a nano-sawtooth structure regulates the behavior of rat bone marrow mesenchymal stem cells. International Journal of Nanomedicine, 2012, 7, 4459.	3.3	64

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19	Plasmonic gold nanoparticles modified titania nanotubes for antibacterial application. Applied Physics Letters, 2014, 104, .	1.5	64
20	Oxidative stress-mediated selective antimicrobial ability of nano-VO₂against Gram-positive bacteria for environmental and biomedical applications. Nanoscale, 2016, 8, 11907-11923.	2.8	64
21	Magnesium ion implantation on a micro/nanostructured titanium surface promotes its bioactivity and osteogenic differentiation function. International Journal of Nanomedicine, 2014, 9, 2387.	3.3	63
22	Preparation of Laponite Bioceramics for Potential Bone Tissue Engineering Applications. PLoS ONE, 2014, 9, e99585.	1.1	62
23	Use of ZnO as antireflective, protective, antibacterial, and biocompatible multifunction nanolayer of thermochromic VO2 nanofilm for intelligent windows. Applied Surface Science, 2016, 363, 532-542.	3.1	59
24	Ultrasonically Propelled Microâ€•and Nanorobots. Advanced Functional Materials, 2022, 32, 2102265.	7.8	57
25	CVD Growth of Graphene on NiTi Alloy for Enhanced Biological Activity. ACS Applied Materials & Interfaces, 2015, 7, 19876-19881.	4.0	53
26	Advanced antibacterial activity of biocompatible tantalum nanofilm via enhanced local innate immunity. Acta Biomaterialia, 2019, 89, 403-418.	4.1	51
27	Selective Tumor Cell Inhibition Effect of Niâ€“Ti Layered Double Hydroxides Thin Films Driven by the Reversed pH Gradients of Tumor Cells. ACS Applied Materials & Interfaces, 2015, 7, 7843-7854.	4.0	49
28	Enhanced Anti-Infective Efficacy of ZnO Nanoreservoirs through a Combination of Intrinsic Anti-Biofilm Activity and Reinforced Innate Defense. ACS Applied Materials & Interfaces, 2017, 9, 33609-33623.	4.0	46
29	Enhanced bioactivity and bacteriostasis effect of TiO2 nanofilms with favorable biomimetic architectures on titanium surface. RSC Advances, 2013, 3, 11214.	1.7	44
30	Alkali-treated titanium selectively regulating biological behaviors of bacteria, cancer cells and mesenchymal stem cells. Journal of Colloid and Interface Science, 2014, 436, 160-170.	5.0	44
31	Antibacterial ability and hemocompatibility of graphene functionalized germanium. Scientific Reports, 2016, 6, 37474.	1.6	44
32	Temperature-responsive tungsten doped vanadium dioxide thin film starves bacteria to death. Materials Today, 2019, 22, 35-49.	8.3	44
33	Vacuum extraction enhances rhPDGF-BB immobilization on nanotubes to improve implant osseointegration in ovariectomized rats. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 1809-1818.	1.7	38
34	Chemically regulated bioactive ion delivery platform on a titanium surface for sustained controlled release. Journal of Materials Chemistry B, 2014, 2, 283-294.	2.9	37
35	Electron transfer induced thermochromism in a VO₂â€“grapheneâ€“Ge heterostructure. Journal of Materials Chemistry C, 2015, 3, 5089-5097.	2.7	36
36	Vanadium Dioxide Nanocoating Induces Tumor Cell Death through Mitochondrial Electron Transport Chain Interruption. Global Challenges, 2019, 3, 1800058.	1.8	33

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37	Selenium doped Niâ€“Ti layered double hydroxide (Niâ€“Ti LDH) films with selective inhibition effect to cancer cells and bacteria. RSC Advances, 2015, 5, 106848-106859.	1.7	31
38	Strontium delivery on topographical titanium to enhance bioactivity and osseointegration in osteoporotic rats. Journal of Materials Chemistry B, 2015, 3, 4790-4804.	2.9	31
39	A functionalized surface modification with vanadium nanoparticles of various valences against implant-associated bloodstream infection. International Journal of Nanomedicine, 2017, Volume 12, 3121-3136.	3.3	29
40	Biohybrid Micro- and Nanorobots for Intelligent Drug Delivery. Cyborg and Bionic Systems, 2022, 2022, .	3.7	28
41	Optical and electrical switching properties of VO 2 thin film on MgF 2 (111) substrate. Ceramics International, 2016, 42, 7655-7663.	2.3	27
42	Nano-layered magnesium fluoride reservoirs on biomaterial surfaces strengthen polymorphonuclear leukocyte resistance to bacterial pathogens. Nanoscale, 2017, 9, 875-892.	2.8	26
43	Existence, release, and antibacterial actions of silver nanoparticles on Ag–PIII TiO2 films with different nanotopographies. International Journal of Nanomedicine, 2014, 9, 3389.	3.3	25
44	Poly(styrenesulfonate)-Modified Niâ€“Ti Layered Double Hydroxide Film: A Smart Drug-Eluting Platform. ACS Applied Materials & Interfaces, 2016, 8, 24491-24501.	4.0	22
45	The potential cytotoxicity and mechanism of VO₂ thin films for intelligent thermochromic windows. RSC Advances, 2015, 5, 106315-106324.	1.7	19
46	Band Gap Engineering of Titania Film through Cobalt Regulation for Oxidative Damage of Bacterial Respiration and Viability. ACS Applied Materials & Interfaces, 2017, 9, 27475-27490.	4.0	19
47	Bioinspired interface design modulates pathogen and immunocyte responses in biomaterial-centered infection combination therapy. Materials Horizons, 2019, 6, 1271-1282.	6.4	18
48	Trace Element-Augmented Titanium Implant With Targeted Angiogenesis and Enhanced Osseointegration in Osteoporotic Rats. Frontiers in Chemistry, 2022, 10, 839062.	1.8	18
49	Nano vanadium dioxide films deposited on biomedical titanium: a novel approach for simultaneously enhanced osteogenic and antibacterial effects. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 58-74.	1.9	16
50	Graphene film-functionalized germanium as a chemically stable, electrically conductive, and biologically active substrate. Journal of Materials Chemistry B, 2015, 3, 1544-1555.	2.9	15
51	Integration of BiOI nanosheets into bubble-propelled micromotors for efficient water purification. FlatChem, 2021, 30, 100294.	2.8	9
52	Anti-biofouling function of amorphous nano-Ta₂O₅coating for VO₂-based intelligent windows. Nanotechnology, 2017, 28, 175705.	1.3	5