Hong-Shui Wang

List of Publications by Year
in descending order

59 papers	2,455 citations	236925 25 h-index	197818 49 g-index
59 all docs	59 docs citations	59 times ranked	3553 citing authors

#	Article	IF	Citations
1	Mechanisms of PVP in the preparation of silver nanoparticles. Materials Chemistry and Physics, 2005, 94, 449-453.	4.0	554
2	A novel chemical route to prepare ZnO nanoparticles. Materials Letters, 2006, 60, 1828-1832.	2.6	151
3	Preparation of silver nanoparticles in water-in-oil AOT reverse micelles. Journal of Colloid and Interface Science, 2006, 302, 370-373.	9.4	142
4	Effects of coupling agents on the properties of epoxy-based electrically conductive adhesives. International Journal of Adhesion and Adhesives, 2006, 26, 406-413.	2.9	119
5	Ultra-broadband enhanced absorption of metal surfaces structured by femtosecond laser pulses. Optics Express, 2008, 16, 11259.	3.4	91
6	Formation mechanism and adhesive strength of a hydroxyapatite/TiO2 composite coating on a titanium surface prepared by micro-arc oxidation. Applied Surface Science, 2016, 362, 109-114.	6.1	87
7	Biomimetic cardiovascular stents for inÂvivo re-endothelialization. Biomaterials, 2016, 103, 170-182.	11.4	86
8	Femtosecond Laser-Induced Micropattern and Ca/P Deposition on Ti Implant Surface and Its Acceleration on Early Osseointegration. ACS Applied Materials & Interfaces, 2013, 5, 8179-8186.	8.0	68
9	Effects of temperature on indium tin oxide particles synthesized by co-precipitation. Journal of Crystal Growth, 2006, 289, 151-156.	1.5	60
10	Influence of surface structures on biocompatibility of TiO 2 /HA coatings prepared by MAO. Materials Chemistry and Physics, 2018, 215, 339-345.	4.0	56
11	Biological and antibacterial properties of the micro-nanostructured hydroxyapatite/chitosan coating on titanium. Scientific Reports, 2019, 9, 14052.	3.3	56
12	Laser Polishing of Ti6Al4V Fabricated by Selective Laser Melting. Metals, 2020, 10, 191.	2.3	56
13	Graphene Oxide Hybridized nHAC/PLGA Scaffolds Facilitate the Proliferation of MC3T3-E1 Cells. Nanoscale Research Letters, 2018, 13, 15.	5.7	52
14	Preparation and properties of carbon nanotube (Fe)/hydroxyapatite composite as magnetic targeted drug delivery carrier. Materials Science and Engineering C, 2019, 97, 222-229.	7.3	51
15	Fabrication and properties of carbon nanotube-reinforced hydroxyapatite composites by a double in situ synthesis process. Carbon, 2016, 101, 159-167.	10.3	50
16	Surface microstructuring of Ti plates by femtosecond lasers in liquid ambiences: a new approach to improving biocompatibility. Optics Express, 2009, 17, 21124.	3.4	48
17	Biocompatibility of the micro-patterned NiTi surface produced by femtosecond laser. Applied Surface Science, 2012, 261, 337-342.	6.1	43
18	Carbon nanotube-reinforced mesoporous hydroxyapatite composites with excellent mechanical and biological properties for bone replacement material application. Materials Science and Engineering C, 2017, 77, 1078-1087.	7.3	40

#	Article	IF	Citations
19	Femtosecond laser-induced concentric ring microstructures on Zr-based metallic glass. Applied Surface Science, 2010, 256, 3653-3660.	6.1	37
20	Microstructure and properties of carbon nanotubes-reinforced magnesium matrix composites fabricated via novel in situ synthesis process. Journal of Alloys and Compounds, 2019, 785, 146-155.	5.5	35
21	Corrosion resistance and mechanical properties of titanium with hierarchical micro-nanostructure. Materials Letters, 2016, 182, 43-46.	2.6	31
22	Biological and Mechanical Effects of Micro-Nanostructured Titanium Surface on an Osteoblastic Cell Line In vitro and Osteointegration In vivo. Applied Biochemistry and Biotechnology, 2017, 183, 280-292.	2.9	28
23	Influence of nanostructures on the biological properties of Ti implants after anodic oxidation. Journal of Materials Science: Materials in Medicine, 2014, 25, 199-205.	3.6	27
24	Sub-wavelength surface structuring of NiTi alloy by femtosecond laser pulses. Applied Physics A: Materials Science and Processing, 2008, 92, 635-642.	2.3	26
25	Improvement of biological properties of titanium by anodic oxidation and ultraviolet irradiation. Applied Surface Science, 2014, 307, 202-208.	6.1	26
26	Controllable ZnO morphology via simple template-free solution route. Materials Chemistry and Physics, 2007, 102, 7-12.	4.0	25
27	Self-adjusting antibacterial properties of Ag-incorporated nanotubes on micro-nanostructured Ti surfaces. Biomaterials Science, 2019, 7, 4075-4087.	5.4	24
28	Biological properties of nanostructured Ti incorporated with Ca, P and Ag by electrochemical method. Materials Science and Engineering C, 2015, 51, 80-86.	7.3	23
29	Microstructure and hydrogen absorption/desorption properties of Mg24Y3M (MÂ=ÂNi, Co, Cu, Al) alloys. International Journal of Hydrogen Energy, 2018, 43, 8877-8887.	7.1	23
30	Thermosensitive -hydrogel-coated titania nanotubes with controlled drug release and immunoregulatory characteristics for orthopedic applications. Materials Science and Engineering C, 2021, 122, 111878.	7.3	23
31	Fabrication and properties of magnesium matrix composite reinforced by urchin-like carbon nanotube-alumina in situ composite structure. Journal of Alloys and Compounds, 2018, 746, 320-327.	5.5	22
32	Bioactivities of a Ti surface ablated with a femtosecond laser through SBF. Biomedical Materials (Bristol), 2010, 5, 054115.	3.3	21
33	Surface Roughness and Hydrophilicity of Titanium after Anodic Oxidation. Rare Metal Materials and Engineering, 2016, 45, 858-862.	0.8	21
34	Paclitaxel-loaded lignin particle encapsulated into electrospun PVA/PVP composite nanofiber for effective cervical cancer cell inhibition. Nanotechnology, 2021, 32, 015101.	2.6	21
35	Preparation and surface modification of 3D printed Tiâ€“6Alâ€“4V porous implant. Rare Metals, 2021, 40, 1164-1172.	7.1	19
36	Fabrication of GO-TiO2/(Ca,Y)F2:Tm,Yb composites with high-efficiency optical driving photocatalytic activity for degradation of organic dyes and bacteriostasis. Rare Metals, 2022, 41, 650-662.	7.1	18

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37	Preparation of porous microstructures on NiTi alloy surface with femtosecond laser pulses. Science Bulletin, 2008, 53, 700-705.	1.7	17
38	3D MXene microspheres with honeycomb architecture for tumor photothermal/photodynamic/chemo combination therapy. Nanotechnology, 2021, 32, 195701.	2.6	14
39	Effect of graphite (GR) content on microstructure and hydrogen storage properties of nanocrystalline Mg24Y3â€“Niâ€“GR composites. Journal of Alloys and Compounds, 2017, 726, 498-506.	5.5	13
40	Corrosion resistance and biological properties of a microâ€“nano structured Ti surface consisting of TiO₂ and hydroxyapatite. RSC Advances, 2017, 7, 33285-33292.	3.6	13
41	Carbon nanotube-collagen@hydroxyapatite composites with improved mechanical and biological properties fabricated by a multi in situ synthesis process. Biomedical Microdevices, 2020, 22, 64.	2.8	13
42	Anodic Oxidation Modification Improve Bioactivity and Biocompatibility of Titanium Implant Surface. Journal of Hard Tissue Biology, 2013, 22, 351-358.	0.4	12
43	Preparation of Hydrophobic and Oleophilic Surface of 316ÂL Stainless Steel by Femtosecond Laser Irradiation in Water. Journal of Dispersion Science and Technology, 2014, 35, 1345-1350.	2.4	12
44	Biological and antibacterial properties of TiO2 coatings containing Ca/P/Ag by one-step and two-step methods. Biomedical Microdevices, 2020, 22, 24.	2.8	12
45	Femtosecond laser-induced nanoporous layer for enhanced osteogenesis of titanium implants. Materials Science and Engineering C, 2021, 127, 112247.	7.3	12
46	Surface modification of cp-Ti using femtosecond laser micromachining and the deposition of Ca/P layer. Materials Letters, 2008, 62, 3783-3786.	2.6	11
47	Laser-modified Feâ€“30Mn surfaces with promoted biodegradability and biocompatibility toward biological applications. Journal of Materials Science, 2021, 56, 13772-13784.	3.7	10
48	Hydrophilicity of bioactive titanium surface with different structure, composition, crystal form and grain size. Materials Letters, 2018, 218, 177-180.	2.6	9
49	Antibacterial Vancomycin@ZIF-8 Loaded PVA Nanofiber Membrane for Infected Bone Repair. International Journal of Molecular Sciences, 2022, 23, 5629.	4.1	9
50	Structure design and biological evaluation of the mechanical-adaptive titanium-based porous implants. Materials Technology, 2021, 36, 851-856.	3.0	8
51	Synthesis of uniform BN-coated aluminum borate nanowhiskers and their applications in reinforced magnesium matrix composites. Materials Chemistry and Physics, 2012, 132, 347-353.	4.0	6
52	Femtosecond laser induced micropatterns and in-situ deposition of Ca/P phase and collagen on Ti surface. Materials Chemistry and Physics, 2015, 158, 115-120.	4.0	6
53	Near infrared ray to ultraviolet up-conversion luminescence of Tm3+â€“Yb3+ co-doped (CaY)F2 nanocrystals. Journal of Materials Science: Materials in Electronics, 2017, 28, 12290-12296.	2.2	5
54	Corrosion Resistance and Biological Properties of Anatase and Rutile Coatings on a Titanium Surface. Chemistry Letters, 2019, 48, 1355-1357.	1.3	5

#	Article	IF	Citations
55	Synthesis and Characterization of Flower-like Carbon-encapsulated Fe-C Nanoparticles for Application as Adsorbing Material. Materials, 2019, 12, 829.	2.9	3
56	Effects of femtosecond laser ablation on the surface morphology and microstructure of a bulk TiCuPdZr glass alloy. Rare Metals, 2009, 28, 272-276.	7.1	2
57	Effects of adding different types of carbon on the structure and magnetic properties of SmCo6.9Hf0.1 alloy. Journal of Rare Earths, 2013, 31, 1168-1174.	4.8	2
58	Preparation of (CaY)F ₂ :Tm ³⁺ ,Yb ³⁺ deposited porous TiO ₂ matrix with highly nearâ€infrared light photocatalytic activity. Micro and Nano Letters, 2021, 16, 83-89.	1.3	1
59	Fusion of biocompatible Ca/P elements with implantable metals by femtosecond laser microstructuring in liquids. , 2009, , .		0