

# Daqing Wei

## List of Publications by Year in descending order

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49  
papers

1,398  
citations

304368

22  
h-index

344852

36  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1311  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characteristic and in vitro bioactivity of a microarc-oxidized TiO <sub>2</sub> -based coating after chemical treatment. <i>Acta Biomaterialia</i> , 2007, 3, 817-827.	4.1	120
2	Superhydrophobic double-layer coating for efficient heat dissipation and corrosion protection. <i>Chemical Engineering Journal</i> , 2019, 362, 638-649.	6.6	77
3	Synergistic Effects of Surface Chemistry and Topologic Structure from Modified Microarc Oxidation Coatings on Ti Implants for Improving Osseointegration. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 8932-8941.	4.0	74
4	Effect of heat treatment on the structure and in vitro bioactivity of microarc-oxidized (MAO) titania coatings containing Ca and P ions. <i>Surface and Coatings Technology</i> , 2007, 201, 8723-8729.	2.2	69
5	Characteristic of microarc oxidized coatings on titanium alloy formed in electrolytes containing chelate complex and nano-HA. <i>Applied Surface Science</i> , 2007, 253, 5045-5050.	3.1	67
6	Structure of calcium titanate/titania bioceramic composite coatings on titanium alloy and apatite deposition on their surfaces in a simulated body fluid. <i>Surface and Coatings Technology</i> , 2007, 201, 8715-8722.	2.2	62
7	Chemical treatment of TiO <sub>2</sub> -based coatings formed by plasma electrolytic oxidation in electrolyte containing nano-HA, calcium salts and phosphates for biomedical applications. <i>Applied Surface Science</i> , 2008, 254, 1775-1782.	3.1	56
8	Structure, MC3T3-E1 Cell Response, and Osseointegration of Macroporous Titanium Implants Covered by a Bioactive Microarc Oxidation Coating with Microporous Structure. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 4797-4811.	4.0	41
9	Formation of CaTiO <sub>3</sub> /TiO <sub>2</sub> composite coating on titanium alloy for biomedical applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 84B, 444-451.	1.6	40
10	The effect of applied voltages on the structure, apatite-inducing ability and antibacterial ability of micro arc oxidation coating formed on titanium surface. <i>Bioactive Materials</i> , 2018, 3, 426-433.	8.6	40
11	Biomimetic apatite deposited on microarc oxidized anatase-based ceramic coating. <i>Ceramics International</i> , 2008, 34, 1139-1144.	2.3	39
12	The structure and in vitro apatite formation ability of porous titanium covered bioactive microarc oxidized TiO <sub>2</sub> -based coatings containing Si, Na and Ca. <i>Ceramics International</i> , 2014, 40, 501-509.	2.3	39
13	Rapidly formation of the highly bioactive surface with hydroxyapatite crystals on the titania micro arc oxidation coating by microwave hydrothermal treatment. <i>Applied Surface Science</i> , 2019, 487, 708-718.	3.1	39
14	Effect of applied voltage on the structure of microarc oxidized TiO <sub>2</sub> -based bioceramic films. <i>Materials Chemistry and Physics</i> , 2007, 104, 177-182.	2.0	38
15	Bioactive coating with hierarchical double porous structure on titanium surface formed by two-step microarc oxidation treatment. <i>Surface and Coatings Technology</i> , 2014, 252, 148-156.	2.2	30
16	Plasma electrolytic oxidation induced "local over-growth" characteristic across substrate/coating interface: Effects and tailoring strategy of individual pulse energy. <i>Surface and Coatings Technology</i> , 2018, 342, 198-208.	2.2	30
17	Al <sub>2</sub> O <sub>3</sub> /reduced graphene oxide double-layer radiative coating for efficient heat dissipation. <i>Materials and Design</i> , 2018, 157, 130-140.	3.3	28
18	Characterization and properties of microarc oxidized coatings containing Si, Ca and Na on titanium. <i>Ceramics International</i> , 2011, 37, 1761-1768.	2.3	26

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19	Structure and apatite formation of microarc oxidized TiO <sub>2</sub> -based films before and after alkali-treatment by various alkali concentrations. <i>Surface and Coatings Technology</i> , 2008, 202, 5012-5019.	2.2	24
20	Microarc oxidation coating covered Ti implants with micro-scale gouges formed by a multi-step treatment for improving osseointegration. <i>Materials Science and Engineering C</i> , 2017, 76, 908-917.	3.8	24
21	Preparation, cell response and apatite-forming ability of microarc oxidized coatings containing Si, Ca and Na on titanium. <i>Ceramics International</i> , 2011, 37, 2505-2512.	2.3	23
22	MC3T3-E1 cell response of amorphous phase/TiO <sub>2</sub> nanocrystal composite coating prepared by microarc oxidation on titanium. <i>Materials Science and Engineering C</i> , 2014, 39, 186-195.	3.8	23
23	In-situ SEM analysis of brittle plasma electrolytic oxidation coating bonded to plastic aluminum substrate: Microstructure and fracture behaviors. <i>Materials Characterization</i> , 2019, 156, 109851.	1.9	23
24	Preparation, biomimetic apatite induction and osteoblast proliferation test of TiO <sub>2</sub> -based coatings containing P with a graded structure. <i>Ceramics International</i> , 2009, 35, 2343-2350.	2.3	22
25	Structure, cell response and biomimetic apatite induction of gradient TiO <sub>2</sub> -based/nano-scale hydrophilic amorphous titanium oxide containing Ca composite coatings before and after crystallization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 74, 230-237.	2.5	22
26	Structures, bonding strength and in vitro bioactivity and cytotoxicity of electrochemically deposited bioactive nano-brushite coating/TiO <sub>2</sub> nanotubes composited films on titanium. <i>Surface and Coatings Technology</i> , 2018, 340, 93-102.	2.2	22
27	TEM analysis and in vitro and in vivo biological performance of the hydroxyapatite crystals rapidly formed on the modified microarc oxidation coating using microwave hydrothermal technique. <i>Chemical Engineering Journal</i> , 2019, 373, 1091-1110.	6.6	22
28	The hydrothermal treated Zn-incorporated titania based microarc oxidation coating: Surface characteristics, apatite-inducing ability and antibacterial ability. <i>Surface and Coatings Technology</i> , 2018, 352, 489-500.	2.2	21
29	Formation and structure of sphene/titania composite coatings on titanium formed by a hybrid technique of microarc oxidation and heat-treatment. <i>Applied Surface Science</i> , 2011, 257, 3404-3411.	3.1	20
30	Synergistic effects of elastic modulus and surface topology of Ti-based implants on early osseointegration. <i>RSC Advances</i> , 2016, 6, 43685-43696.	1.7	20
31	Osseointegration of bioactive microarc oxidized amorphous phase/TiO <sub>2</sub> nanocrystals composited coatings on titanium after implantation into rabbit tibia. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 1307-1318.	1.7	19
32	Chemical etching of micro-plasma oxidized titania film on titanium alloy and apatite deposited on the surface of modified titania film in vitro. <i>Thin Solid Films</i> , 2008, 516, 1818-1825.	0.8	17
33	Characteristic and biocompatibility of the TiO <sub>2</sub> -based coatings containing amorphous calcium phosphate before and after heat treatment. <i>Applied Surface Science</i> , 2009, 255, 6232-6239.	3.1	17
34	The effect of NaOH concentration on the steam-hydrothermally treated bioactive microarc oxidation coatings containing Ca, P, Si and Na on pure Ti surface. <i>Materials Science and Engineering C</i> , 2015, 49, 669-680.	3.8	17
35	Mechanical and corrosion resistance of hydrophilic sphene/titania composite coatings on titanium and deposition and release of cefazolin sodium/chitosan films. <i>Applied Surface Science</i> , 2011, 257, 2657-2664.	3.1	16
36	Conformal coating containing Ca, P, Si and Na with double-level porous surface structure on titanium formed by a three-step microarc oxidation. <i>RSC Advances</i> , 2015, 5, 28908-28920.	1.7	16

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37	Facile One-Step Fabrication of Multilayer Nanocomposite Coating for Radiative Heat Dissipation. ACS Applied Electronic Materials, 2019, 1, 1527-1537.	2.0	15
38	The effect of titanium bead diameter of porous titanium on the formation of micro-arc oxidized TiO <sub>2</sub> -based coatings containing Si and Ca. Ceramics International, 2013, 39, 5725-5732.	2.3	14
39	Structure of microarc oxidized coatings containing Si, Ca and Na on titanium and deposition of cefazolin sodium/chitosan composite film. Surface and Coatings Technology, 2011, 205, 3798-3804.	2.2	13
40	Titania nanotube/nano-brushite composited bioactive coating with micro/nanotopography on titanium formed by anodic oxidation and hydrothermal treatment. Ceramics International, 2015, 41, 13115-13125.	2.3	12
41	Microarc oxidized TiO <sub>2</sub> based ceramic coatings combined with cefazolin sodium/chitosan composited drug film on porous titanium for biomedical applications. Materials Science and Engineering C, 2013, 33, 4118-4125.	3.8	10
42	Rapid Fabrication, Microstructure, and in Vitro and in Vivo Investigations of a High-Performance Multilayer Coating with External, Flexible, and Silicon-Doped Hydroxyapatite Nanorods on Titanium. ACS Biomaterials Science and Engineering, 2019, 5, 4244-4262.	2.6	10
43	H <sub>2</sub> Ti <sub>5</sub> O <sub>11</sub> ·H <sub>2</sub> O nanorod arrays formed on a Ti surface via a hybrid technique of microarc oxidation and chemical treatment. CrystEngComm, 2015, 17, 2705-2717.	1.3	9
44	MC3T3-E1 cells' response and osseointegration of bioactive sphene-titanium oxide composite coatings fabricated by a hybrid technique of microarc oxidation and heat treatment on titanium. Journal of Materials Chemistry B, 2014, 2, 2993.	2.9	8
45	Rapid structural evolution and bone inducing mechanism of the multilayer coating with silicon-doped hydroxyapatite crystals on the microwave water steaming-hydrothermally treated titania coating. Applied Surface Science, 2021, 539, 148153.	3.1	8
46	Effect of heat treatment atmosphere on the structure and apatite-inducing ability of Ca, P, Si and Na incorporated microarc oxidation coating on titanium. Surface and Coatings Technology, 2017, 310, 190-198.	2.2	5
47	Liquid-phase plasma assisted electrophoresis and sintering SiC/hBN nanocomposite ceramic coating on aluminum alloy for radiative heat dissipation. Ceramics International, 2021, 47, 9310-9316.	2.3	5
48	Comparative investigations of <i>in vitro</i> and <i>in vivo</i> bioactivity of titanium vs. Ti-24Nb-4Zr-8Sn alloy before and after sandblasting and acid etching. RSC Advances, 2020, 10, 23582-23591.	1.7	3
49	Rapid structural regulation, apatite-inducing mechanism and <i>in vivo</i> investigation of microwave-assisted hydrothermally treated titania coating. RSC Advances, 2021, 11, 7305-7317.	1.7	3