

Hongqing Feng

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,624
citations

279798

23
h-index

302126

39
g-index

51
all docs

51
docs citations

51
times ranked

3311
citing authors

#	ARTICLE	IF	CITATIONS
1	Antibacterial effects of titanium embedded with silver nanoparticles based on electron-transfer-induced reactive oxygen species. <i>Biomaterials</i> , 2017, 124, 25-34.	11.4	219
2	Assessment of the Physicochemical Properties and Biological Effects of Water Activated by Non-thermal Plasma Above and Beneath the Water Surface. <i>Plasma Processes and Polymers</i> , 2015, 12, 439-449.	3.0	179
3	Improvement of corrosion resistance and biocompatibility of rare-earth WE43 magnesium alloy by neodymium self-ion implantation. <i>Corrosion Science</i> , 2015, 94, 142-155.	6.6	161
4	A study of oxidative stress induced by non-thermal plasma-activated water for bacterial damage. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	160
5	An antibacterial platform based on capacitive carbon-doped TiO ₂ nanotubes after direct or alternating current-charging. <i>Nature Communications</i> , 2018, 9, 2055.	12.8	153
6	Reactive Oxygen Species in a Non-thermal Plasma Microjet and Water System: Generation, Conversion, and Contributions to Bacteria Inactivation—An Analysis by Electron Spin Resonance Spectroscopy. <i>Plasma Processes and Polymers</i> , 2012, 9, 417-424.	3.0	150
7	Nanogenerator for Biomedical Applications. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701298.	7.6	147
8	Engineering and functionalization of biomaterials via surface modification. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2024-2042.	5.8	138
9	Photothermally tunable biodegradation of implantable triboelectric nanogenerators for tissue repairing. <i>Nano Energy</i> , 2018, 54, 390-399.	16.0	136
10	A self-powered sterilization system with both instant and sustainable anti-bacterial ability. <i>Nano Energy</i> , 2017, 36, 241-249.	16.0	123
11	Inactivation of <i>Bacillus subtilis</i> Spores in Water by a Direct-Current, Cold Atmospheric-Pressure Air Plasma Microjet. <i>Plasma Processes and Polymers</i> , 2012, 9, 157-164.	3.0	112
12	Corrosion resistance and cytocompatibility of tantalum-surface-functionalized biomedical ZK60 Mg alloy. <i>Corrosion Science</i> , 2017, 114, 45-56.	6.6	106
13	Highly Efficient In Vivo Cancer Therapy by an Implantable Magnet Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2019, 29, 1808640.	14.9	92
14	Systematic Study of Inherent Antibacterial Properties of Magnesium-based Biomaterials. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9662-9673.	8.0	79
15	The Interaction of a Direct-Current Cold Atmospheric-Pressure Air Plasma With Bacteria. <i>IEEE Transactions on Plasma Science</i> , 2009, 37, 121-127.	1.3	72
16	Assessment of the roles of various inactivation agents in an argon-based direct current atmospheric pressure cold plasma jet. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	62
17	Extracellular Electron Transfer from Aerobic Bacteria to Au-Loaded TiO ₂ Semiconductor without Light: A New Bacteria-Killing Mechanism Other than Localized Surface Plasmon Resonance or Microbial Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 24509-24516.	8.0	62
18	Mitigation of Corrosion on Magnesium Alloy by Predesigned Surface Corrosion. <i>Scientific Reports</i> , 2015, 5, 17399.	3.3	59

#	ARTICLE	IF	CITATIONS
19	Synergistic Effects of Nanosecond Pulsed Electric Fields Combined with Low Concentration of Gemcitabine on Human Oral Squamous Cell Carcinoma In Vitro. PLoS ONE, 2012, 7, e43213.	2.5	47
20	A study of eukaryotic response mechanisms to atmospheric pressure cold plasma by using <i>Saccharomyces cerevisiae</i> single gene mutants. Applied Physics Letters, 2010, 97, .	3.3	37
21	Assessment of the roles of various inactivation agents in an argon-based direct current atmospheric pressure cold plasma jet. , 2012, , .		37
22	Chemical warfare agents decontamination via air microplasma excited by a triboelectric nanogenerator. Nano Energy, 2022, 95, 106992.	16.0	29
23	An evaluation of anti-oxidative protection for cells against atmospheric pressure cold plasma treatment. Applied Physics Letters, 2012, 100, .	3.3	26
24	Long-term antibacterial characteristics and cytocompatibility of titania nanotubes loaded with Au nanoparticles without photocatalytic effects. Applied Surface Science, 2017, 414, 230-237.	6.1	25
25	Field enhanced photocatalytic disinfection. Science Bulletin, 2022, 67, 779-783.	9.0	25
26	Early Growth Effects of Nanosecond Pulsed Electric Field (nsPEFs) Exposure on <i>Haloxylon ammodendron</i> . Plasma Processes and Polymers, 2015, 12, 372-379.	3.0	23
27	Alkali Metal Chlorides Based Hydrogel as Eco-Friendly Neutral Electrolyte for Bendable Solid-State Capacitor. Advanced Materials Interfaces, 2018, 5, 1701648.	3.7	23
28	An Ultra-Simple Charge Supplementary Strategy for High Performance Rotary Triboelectric Nanogenerators. Small, 2021, 17, e2101430.	10.0	23
29	Plasma and ion-beam modification of metallic biomaterials for improved anti-bacterial properties. Surface and Coatings Technology, 2016, 306, 140-146.	4.8	18
30	Hafnium-implanted WE43 magnesium alloy for enhanced corrosion protection and biocompatibility. Surface and Coatings Technology, 2016, 306, 11-15.	4.8	18
31	Cancer Therapy: Highly Efficient In Vivo Cancer Therapy by an Implantable Magnet Triboelectric Nanogenerator (Adv. Funct. Mater. 41/2019). Advanced Functional Materials, 2019, 29, 1970285.	14.9	17
32	Unusual anti-bacterial behavior and corrosion resistance of magnesium alloy coated with diamond-like carbon. RSC Advances, 2016, 6, 14756-14762.	3.6	13
33	An Efficient and Specific Protection of Non-Thermal Plasma-Induced Live Yeast Cell Derivative (LYCD) for Cells against Plasma Damage. Plasma Processes and Polymers, 2014, 11, 822-832.	3.0	10
34	Assessment of extracellular matrix modulation of cell traction force by using silicon nanowire array. Nano Energy, 2018, 50, 504-512.	16.0	9
35	MRI of Auto-Transplantation of Bone Marrow-Derived Stem-Progenitor Cells for Potential Repair of Injured Arteries. PLoS ONE, 2012, 7, e31137.	2.5	8
36	A triboelectric nanosensor based on ultra-thin MXene composite paper for heavy metal ion detection. Journal of Micromechanics and Microengineering, 2022, 32, 044003.	2.6	8

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37	Magnetic Resonance Imaging of Bone Marrow Cell-Mediated Interleukin-10 Gene Therapy of Atherosclerosis. PLoS ONE, 2011, 6, e24529.	2.5	7
38	The modulation effect of the convexity of silicon topological nanostructures on the growth of mesenchymal stem cells. RSC Advances, 2017, 7, 16977-16983.	3.6	3
39	Release of Ag/ZnO Nanomaterials and Associated Risks of a Novel Water Sterilization Technology. Water (Switzerland), 2019, 11, 2276.	2.7	3
40	High-Throughput Identification and Screening of Single Microbial Cells by Nanobowl Array. ACS Applied Materials & Interfaces, 2019, 11, 44933-44940.	8.0	2
41	Characterization of live yeast cell derivative (LYCD) induced by atmospheric pressure cold plasma and its protective effects on cells. , 2013, , .		1
42	Atmospheric pressure cold plasma leads to apoptosis in saccharomyces cerevisiae by accumulation of intracellular reactive oxygen species and calcium. , 2013, , .		1
43	Implantable Sufficiently Integrated Multimodal Flexible Sensor for Intracranial Monitoring. , 2021, , .		1
44	Clinical 3.0T Magnetic Resonance Scanner to Be Used for Imaging of Mouse Atherosclerotic Lesions. Applied Magnetic Resonance, 2010, 39, 401-407.	1.2	0
45	Reactive plasma microjet and water system: Generation, conversion, and contributions to bacteria inactivation - an analysis by electron spin resonance spectroscopy. , 2012, , .		0
46	Synergistic effect of nanosecond pulsed electric fields combined with low concentration of gemcitabine on human oral squamous cell carcinoma in vitro. , 2012, , .		0
47	Nanosecond pulsed electric fields caused breast cancer self-destruction: Under in vivo magnetic resonance imaging evaluation. , 2012, , .		0
48	The collaboration of anti-oxidative systems in yeast cells after cold plasma treatment. , 2012, , .		0
49	A genome-wide profiling of cell response mechanisms to non-thermal plasma treatment. , 2014, , .		0
50	Prolonged preservation and inactivation of surface-borne microorganisms of fresh fruits by non-thermal plasma activated water. , 2014, , .		0
51	A triboelectric nanosensor based on ultra-thin MXene composite paper for heavy metal ion detection. Journal of Micromechanics and Microengineering, 0, , .	2.6	0