

Guomin Wang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

37
papers

1,141
citations

17
h-index

33
g-index

43
ext. papers

1,498
ext. citations

9.2
avg, IF

4.43
L-index

#	Paper	IF	Citations
37	Non-thermal plasma-activated water inactivation of food-borne pathogen on fresh produce. <i>Journal of Hazardous Materials</i> , 2015 , 300, 643-651	12.8	251
36	Antibacterial effects of titanium embedded with silver nanoparticles based on electron-transfer-induced reactive oxygen species. <i>Biomaterials</i> , 2017 , 124, 25-34	15.6	152
35	An antibacterial platform based on capacitive carbon-doped TiO nanotubes after direct or alternating current charging. <i>Nature Communications</i> , 2018 , 9, 2055	17.4	99
34	Corrosion resistance and cytocompatibility of tantalum-surface-functionalized biomedical ZK60 Mg alloy. <i>Corrosion Science</i> , 2017 , 114, 45-56	6.8	75
33	Systematic Study of Inherent Antibacterial Properties of Magnesium-based Biomaterials. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 9662-73	9.5	56
32	Linker-free covalent immobilization of heparin, SDF-1 β and CD47 on PTFE surface for antithrombogenicity, endothelialization and anti-inflammation. <i>Biomaterials</i> , 2017 , 140, 201-211	15.6	55
31	Tuning the surface immunomodulatory functions of polyetheretherketone for enhanced osseointegration. <i>Biomaterials</i> , 2020 , 230, 119642	15.6	51
30	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, 24509-16	9.5	45
29	Evaluation of Cold Plasma Treatment and Safety in Disinfecting 3-week Root Canal Enterococcus faecalis Biofilm In Vitro. <i>Journal of Endodontics</i> , 2015 , 41, 1325-30	4.7	39
28	Molybdenum diselenide/black phosphorus heterostructures for electrocatalytic hydrogen evolution. <i>Applied Surface Science</i> , 2019 , 467-468, 328-334	6.7	34
27	Non-thermal plasma for inactivated-vaccine preparation. <i>Vaccine</i> , 2016 , 34, 1126-32	4.1	25
26	Dimensional-dependent antibacterial behavior on bioactive micro/nano polyetheretherketone (PEEK) arrays. <i>Chemical Engineering Journal</i> , 2020 , 392, 123736	14.7	25
25	Atomic-Scale Intercalation of Graphene Layers into MoSe Nanoflower Sheets as a Highly Efficient Catalyst for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2460-2468	9.5	21
24	Nonleaching Antibacterial Concept Demonstrated by In Situ Construction of 2D Nanoflakes on Magnesium. <i>Advanced Science</i> , 2020 , 7, 1902089	13.6	20
23	Long-term antibacterial characteristics and cytocompatibility of titania nanotubes loaded with Au nanoparticles without photocatalytic effects. <i>Applied Surface Science</i> , 2017 , 414, 230-237	6.7	19
22	Antibacterial and Cytocompatible Nanoengineered Silk-Based Materials for Orthopedic Implants and Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31605-31614	9.5	18
21	Tuning surface topographies on biomaterials to control bacterial infection. <i>Biomaterials Science</i> , 2020 , 8, 6840-6857	7.4	18

20	Plasma and ion-beam modification of metallic biomaterials for improved anti-bacterial properties. <i>Surface and Coatings Technology</i> , 2016 , 306, 140-146	4.4	16
19	Corrosion protection and enhanced biocompatibility of biomedical Mg-Y-RE alloy coated with tin dioxide. <i>Surface and Coatings Technology</i> , 2019 , 357, 78-82	4.4	16
18	Tantalum nitride films for corrosion protection of biomedical Mg-Y-RE alloy. <i>Journal of Alloys and Compounds</i> , 2018 , 764, 947-958	5.7	14
17	A Quantitative Bacteria Monitoring and Killing Platform Based on Electron Transfer from Bacteria to a Semiconductor. <i>Advanced Materials</i> , 2020 , 32, e2003616	24	13
16	Cold plasma-induced surface modification of heat-polymerized acrylic resin and prevention of early adherence of <i>Candida albicans</i> . <i>Dental Materials Journal</i> , 2015 , 34, 529-36	2.5	10
15	Time-related surface modification of denture base acrylic resin treated by atmospheric pressure cold plasma. <i>Dental Materials Journal</i> , 2016 , 35, 97-103	2.5	9
14	Nanopatterned silk-coated AZ31 magnesium alloy with enhanced antibacterial and corrosion properties. <i>Materials Science and Engineering C</i> , 2020 , 116, 111173	8.3	8
13	Unusual anti-bacterial behavior and corrosion resistance of magnesium alloy coated with diamond-like carbon. <i>RSC Advances</i> , 2016 , 6, 14756-14762	3.7	8
12	Inactivation of <i>Candida albicans</i> Biofilms on Polymethyl Methacrylate and Enhancement of the Drug Susceptibility by Cold Ar/O ₂ Plasma Jet. <i>Plasma Chemistry and Plasma Processing</i> , 2016 , 36, 383-396	2.6	8
11	Programmed surface on poly(aryl-ether-ether-ketone) initiating immune mediation and fulfilling bone regeneration sequentially. <i>Innovation(China)</i> , 2021 , 2, 100148	17.8	6
10	Plasma-activated interfaces for biomedical engineering. <i>Bioactive Materials</i> , 2021 , 6, 2134-2143	16.7	5
9	High-Potential surface on zirconia ceramics for bacteriostasis and biocompatibility. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 193, 111074	6	4
8	Titania-zinc phosphate/nanocrystalline zinc composite coatings for corrosion protection of biomedical WE43 magnesium alloy. <i>Surface and Coatings Technology</i> , 2021 , 410, 126940	4.4	4
7	Versatile Phenol-Incorporated Nanoframes for In Situ Antibacterial Activity Based on Oxidative and Physical Damages. <i>Advanced Functional Materials</i> , 2110635	15.6	4
6	Hierarchical CuO/ZnO/SiO ₂ Fibrous Membranes for Efficient Removal of Congo Red and 4-Nitrophenol from Water. <i>Advanced Fiber Materials</i> , 1	10.9	4
5	The Efficacy, Safety, Stability, and Mechanism of Tooth Whitening by a Cold Atmospheric Pressure Air Plasma Microjet Assisted With or Without Hydrogen Peroxide. <i>IEEE Transactions on Plasma Science</i> , 2014 , 42, 1623-1628	1.3	3
4	Treatment of oral pathogenic bacteria with non-thermal plasma activated water as a new type mouthwash 2013 ,		2
3	Antibacterial Biomaterials: Nonleaching Antibacterial Concept Demonstrated by In Situ Construction of 2D Nanoflakes on Magnesium (Adv. Sci. 1/2020). <i>Advanced Science</i> , 2020 , 7, 2070006	13.6	2

2	Balancing the biocompatibility and bacterial resistance of polypyrrole by optimized silver incorporation.. <i>Materials Science and Engineering C</i> , 2022 , 112701	8.3	1
1	Controllable deposition of MoS ₂ nanosheets on titanium by the vapor-phase hydrothermal technique and comparison with the conventional liquid-phase hydrothermal method. <i>Surface and Coatings Technology</i> , 2020 , 404, 126497	4.4	0