

# Donghui Wang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2968551/publications.pdf>

Version: 2024-02-01

57  
papers

2,128  
citations

212478

28  
h-index

263392

45  
g-index

59  
all docs

59  
docs citations

59  
times ranked

2844  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tailoring time-varying alkaline microenvironment on titanium for sequential anti-infection and osseointegration. <i>Chemical Engineering Journal</i> , 2022, 431, 133940.	6.6	17
2	RANKL inhibition halts lesion progression and promotes bone remineralization in mice with fibrous dysplasia. <i>Bone</i> , 2022, 156, 116301.	1.4	10
3	Strontium-Containing Barium Titanate-Modified Titanium for Enhancement of Osteointegration. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 1271-1278.	2.6	6
4	Synergistic Effect of Co-Delivering Ciprofloxacin and Tetracycline Hydrochloride for Promoted Wound Healing by Utilizing Coaxial PCL/Gelatin Nanofiber Membrane. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1895.	1.8	28
5	Enhanced corrosion resistance and cytocompatibility of zinc by Zn-Al layered double hydroxide films. <i>Materials Letters</i> , 2022, 314, 131873.	1.3	4
6	Porous thermosensitive coating with water-locking ability for enhanced osteogenic and antibacterial abilities. <i>Materials Today Bio</i> , 2022, 14, 100285.	2.6	1
7	Antibacterial Vancomycin@ZIF-8 Loaded PVA Nanofiber Membrane for Infected Bone Repair. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5629.	1.8	9
8	A superlattice composite of Zn-Fe layered double hydroxide and graphene oxide for antitumor application. <i>Journal of Materials Chemistry B</i> , 2022, 10, 5556-5560.	2.9	1
9	Structure design and biological evaluation of the mechanical-adaptive titanium-based porous implants. <i>Materials Technology</i> , 2021, 36, 851-856.	1.5	8
10	Biocompatibility and bone regeneration of PEO/Mg-Al LDH-coated pure Mg: an in vitro and in vivo study. <i>Science China Materials</i> , 2021, 64, 460-473.	3.5	15
11	Synergistic effects of immunoregulation and osteoinduction of ds-block elements on titanium surface. <i>Bioactive Materials</i> , 2021, 6, 191-207.	8.6	37
12	Zn-contained mussel-inspired film on Mg alloy for inhibiting bacterial infection and promoting bone regeneration. <i>International Journal of Energy Production and Management</i> , 2021, 8, rbaa044.	1.9	21
13	Thermo-sensitive hydrogel on anodized titanium surface to regulate immune response. <i>Surface and Coatings Technology</i> , 2021, 405, 126624.	2.2	8
14	Thermosensitive -hydrogel-coated titania nanotubes with controlled drug release and immunoregulatory characteristics for orthopedic applications. <i>Materials Science and Engineering C</i> , 2021, 122, 111878.	3.8	23
15	Biomedical Implants with Charge-Transfer Monitoring and Regulating Abilities. <i>Advanced Science</i> , 2021, 8, e2004393.	5.6	18
16	Femtosecond laser-induced nanoporous layer for enhanced osteogenesis of titanium implants. <i>Materials Science and Engineering C</i> , 2021, 127, 112247.	3.8	12
17	A pH-response chemotherapy synergistic photothermal therapy for tumor suppression and bone regeneration by mussel-inspired Mg implant. <i>International Journal of Energy Production and Management</i> , 2021, 8, rbab053.	1.9	13
18	Mg-Fe layered double hydroxides modified titanium enhanced the adhesion of human gingival fibroblasts through regulation of local pH level. <i>Materials Science and Engineering C</i> , 2021, 131, 112485.	3.8	4

#	ARTICLE	IF	CITATIONS
19	A facile and universal strategy to endow implant materials with antibacterial ability <i>via</i> alkalinity disturbing bacterial respiration. <i>Biomaterials Science</i> , 2020, 8, 1815-1829.	2.6	43
20	Enhanced corrosion resistance and biocompatibility of magnesium alloy by hydroxyapatite/graphene oxide bilayer coating. <i>Materials Letters</i> , 2020, 264, 127322.	1.3	29
21	Antibacterial activity of an NIR-induced Zn ion release film. <i>Journal of Materials Chemistry B</i> , 2020, 8, 406-415.	2.9	32
22	Surface alloyed Ti-Zr layer constructed on titanium by Zr ion implantation for improving physicochemical and osteogenic properties. <i>Progress in Natural Science: Materials International</i> , 2020, 30, 635-641.	1.8	18
23	An <i>in vitro</i> and <i>in vivo</i> comparison of Mg(OH) <sub>2</sub> , MgF <sub>2</sub> and HA-coated Mg in degradation and osteointegration. <i>Biomaterials Science</i> , 2020, 8, 3320-3333.	2.6	11
24	Improved <i>in vitro</i> angiogenic behavior of human umbilical vein endothelial cells with oxidized polydopamine coating. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 194, 111176.	2.5	23
25	Biological and antibacterial properties of TiO <sub>2</sub> coatings containing Ca/P/Ag by one-step and two-step methods. <i>Biomedical Microdevices</i> , 2020, 22, 24.	1.4	12
26	Self-adjusting antibacterial properties of Ag-incorporated nanotubes on micro-nanostructured Ti surfaces. <i>Biomaterials Science</i> , 2019, 7, 4075-4087.	2.6	24
27	Corrosion Motivated ROS Generation Helps Endow Titanium with Broad Spectrum Antibacterial Abilities. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900514.	1.9	17
28	Regulating the Behavior of Human Gingival Fibroblasts by sp <sup>2</sup> Domains in Reduced Graphene Oxide. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 6414-6424.	2.6	8
29	Nanostructural Surfaces with Different Elastic Moduli Regulate the Immune Response by Stretching Macrophages. <i>Nano Letters</i> , 2019, 19, 3480-3489.	4.5	49
30	Assembled gold nanorods for the photothermal killing of bacteria. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 173, 833-841.	2.5	39
31	NIR-triggered Crystal Phase Transformation of NiTi-layered Double Hydroxides Films for Localized Chemothermal Tumor Therapy. <i>Advanced Science</i> , 2018, 5, 1700782.	5.6	34
32	Smart release of doxorubicin loaded on polyetheretherketone (PEEK) surface with 3D porous structure. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 163, 175-183.	2.5	33
33	“Petal effect”-inspired superhydrophobic and highly adhesive coating on magnesium with enhanced corrosion resistance and biocompatibility. <i>Science China Materials</i> , 2018, 61, 629-642.	3.5	25
34	Layered double hydroxide/poly-dopamine composite coating with surface heparinization on Mg alloys: improved anticorrosion, endothelialization and hemocompatibility. <i>Biomaterials Science</i> , 2018, 6, 1846-1858.	2.6	65
35	Regulating the local pH level of titanium <i>via</i> Mg-Fe layered double hydroxides films for enhanced osteogenesis. <i>Biomaterials Science</i> , 2018, 6, 1227-1237.	2.6	43
36	Loading 5-Fluorouracil into calcined Mg/Al layered double hydroxide on AZ31 via memory effect. <i>Materials Letters</i> , 2018, 213, 383-386.	1.3	35

#	ARTICLE	IF	CITATIONS
37	Effect of Local Alkaline Microenvironment on the Behaviors of Bacteria and Osteogenic Cells. ACS Applied Materials & Interfaces, 2018, 10, 42018-42029.	4.0	110
38	PEO/Mg-Zn-Al LDH Composite Coating on Mg Alloy as a Zn/Mg Ion-Release Platform with Multifunctions: Enhanced Corrosion Resistance, Osteogenic, and Antibacterial Activities. ACS Biomaterials Science and Engineering, 2018, 4, 4112-4121.	2.6	76
39	The prospect of layered double hydroxide as bone implants: A study of mechanical properties, cytocompatibility and antibacterial activity. Applied Clay Science, 2018, 165, 179-187.	2.6	35
40	Osteogenesis Catalyzed by Titanium-Supported Silver Nanoparticles. ACS Applied Materials & Interfaces, 2017, 9, 5149-5157.	4.0	57
41	How Oxygen-Containing Groups on Graphene Influence the Antibacterial Behaviors. Advanced Materials Interfaces, 2017, 4, 1700228.	1.9	51
42	Layer-Number Dependent Antibacterial and Osteogenic Behaviors of Graphene Oxide Electrophoretic Deposited on Titanium. ACS Applied Materials & Interfaces, 2017, 9, 12253-12263.	4.0	78
43	Multifunctions of dual Zn/Mg ion co-implanted titanium on osteogenesis, angiogenesis and bacteria inhibition for dental implants. Acta Biomaterialia, 2017, 49, 590-603.	4.1	217
44	Sealing the Pores of PEO Coating with Mg-Al Layered Double Hydroxide: Enhanced Corrosion Resistance, Cytocompatibility and Drug Delivery Ability. Scientific Reports, 2017, 7, 8167.	1.6	74
45	Butyrate-inserted Ni-Ti layered double hydroxide film for H <sub>2</sub> O <sub>2</sub> -mediated tumor and bacteria killing. Materials Today, 2017, 20, 238-257.	8.3	70
46	The response of human osteoblasts, epithelial cells, fibroblasts, macrophages and oral bacteria to nanostructured titanium surfaces: a systematic study. International Journal of Nanomedicine, 2017, Volume 12, 1415-1430.	3.3	64
47	Corrosion behavior and cytocompatibility of fluoride-incorporated plasma electrolytic oxidation coating on biodegradable AZ31 alloy. International Journal of Energy Production and Management, 2017, 4, 1-10.	1.9	17
48	Restoring the osteogenic activity of bacterial debris contaminated titanium by doping with magnesium. RSC Advances, 2016, 6, 113395-113404.	1.7	1
49	Enhanced Corrosion Resistance and Biocompatibility of Magnesium Alloy by Mg-Al-Layered Double Hydroxide. ACS Applied Materials & Interfaces, 2016, 8, 35033-35044.	4.0	173
50	Oxidative stress-mediated selective antimicrobial ability of nano-VO <sub>2</sub> against Gram-positive bacteria for environmental and biomedical applications. Nanoscale, 2016, 8, 11907-11923.	2.8	64
51	Poly(styrenesulfonate)-Modified Ni-Ti Layered Double Hydroxide Film: A Smart Drug-Eluting Platform. ACS Applied Materials & Interfaces, 2016, 8, 24491-24501.	4.0	22
52	Dielectrophoretic behaviours of microdroplet sandwiched between LN substrates. Scientific Reports, 2016, 6, 29166.	1.6	31
53	Preparation of Gold-Carbon Dots and Ratiometric Fluorescence Cellular Imaging. ACS Applied Materials & Interfaces, 2016, 8, 6646-6655.	4.0	64
54	Selenium doped Ni-Ti layered double hydroxide (Ni-Ti LDH) films with selective inhibition effect to cancer cells and bacteria. RSC Advances, 2015, 5, 106848-106859.	1.7	31

#	ARTICLE	IF	CITATIONS
55	The potential cytotoxicity and mechanism of VO <sub>2</sub> thin films for intelligent thermochromic windows. RSC Advances, 2015, 5, 106315-106324.	1.7	19
56	Selective Tumor Cell Inhibition Effect of Ni-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
57	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