

Donghui Wang

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,128
citations

186265
28
h-index

233421
45
g-index

59
all docs

59
docs citations

59
times ranked

2584
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Tailoring time-varying alkaline microenvironment on titanium for sequential anti-infection and osseointegration. Chemical Engineering Journal, 2022, 431, 133940. | 12.7 | 17 |
| 2 | RANKL inhibition halts lesion progression and promotes bone remineralization in mice with fibrous dysplasia. Bone, 2022, 156, 116301. | 2.9 | 10 |
| 3 | Strontium-Containing Barium Titanate-Modified Titanium for Enhancement of Osteointegration. ACS Biomaterials Science and Engineering, 2022, 8, 1271-1278. | 5.2 | 6 |
| 4 | Synergistic Effect of Co-Delivering Ciprofloxacin and Tetracycline Hydrochloride for Promoted Wound Healing by Utilizing Coaxial PCL/Gelatin Nanofiber Membrane. International Journal of Molecular Sciences, 2022, 23, 1895. | 4.1 | 28 |
| 5 | Enhanced corrosion resistance and cytocompatibility of zinc by Zn-Al layered double hydroxide films. Materials Letters, 2022, 314, 131873. | 2.6 | 4 |
| 6 | Porous thermosensitive coating with water-locking ability for enhanced osteogenic and antibacterial abilities. Materials Today Bio, 2022, 14, 100285. | 5.5 | 1 |
| 7 | Antibacterial Vancomycin@ZIF-8 Loaded PVA Nanofiber Membrane for Infected Bone Repair. International Journal of Molecular Sciences, 2022, 23, 5629. | 4.1 | 9 |
| 8 | A superlattice composite of Zn-Fe layered double hydroxide and graphene oxide for antitumor application. Journal of Materials Chemistry B, 2022, 10, 5556-5560. | 5.8 | 1 |
| 9 | Structure design and biological evaluation of the mechanical-adaptive titanium-based porous implants. Materials Technology, 2021, 36, 851-856. | 3.0 | 8 |
| 10 | Biocompatibility and bone regeneration of PEO/Mg-Al LDH-coated pure Mg: an in vitro and in vivo study. Science China Materials, 2021, 64, 460-473. | 6.3 | 15 |
| 11 | Synergistic effects of immunoregulation and osteoinduction of ds-block elements on titanium surface. Bioactive Materials, 2021, 6, 191-207. | 15.6 | 37 |
| 12 | Zn-contained mussel-inspired film on Mg alloy for inhibiting bacterial infection and promoting bone regeneration. International Journal of Energy Production and Management, 2021, 8, rbac044. | 3.7 | 21 |
| 13 | Thermo-sensitive hydrogel on anodized titanium surface to regulate immune response. Surface and Coatings Technology, 2021, 405, 126624. | 4.8 | 8 |
| 14 | 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 |
| 15 | Biomedical Implants with Charge-Transfer Monitoring and Regulating Abilities. Advanced Science, 2021, 8, e2004393. | 11.2 | 18 |
| 16 | Femtosecond laser-induced nanoporous layer for enhanced osteogenesis of titanium implants. Materials Science and Engineering C, 2021, 127, 112247. | 7.3 | 12 |
| 17 | A pH-response chemotherapy synergistic photothermal therapy for tumor suppression and bone regeneration by mussel-inspired Mg implant. International Journal of Energy Production and Management, 2021, 8, rbab053. | 3.7 | 13 |
| 18 | Mg-Fe layered double hydroxides modified titanium enhanced the adhesion of human gingival fibroblasts through regulation of local pH level. Materials Science and Engineering C, 2021, 131, 112485. | 7.3 | 4 |

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|----|--|------|-----------|
| 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. | 5.4 | 43 |
| 20 | Enhanced corrosion resistance and biocompatibility of magnesium alloy by hydroxyapatite/graphene oxide bilayer coating. <i>Materials Letters</i> , 2020, 264, 127322. | 2.6 | 29 |
| 21 | Antibacterial activity of an NIR-induced Zn ion release film. <i>Journal of Materials Chemistry B</i> , 2020, 8, 406-415. | 5.8 | 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. | 4.4 | 18 |
| 23 | An <i>in vitro</i> and <i>in vivo</i> comparison of Mg(OH) ₂ , MgF ₂ and HA-coated Mg in degradation and osteointegration. <i>Biomaterials Science</i> , 2020, 8, 3320-3333. | 5.4 | 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. | 5.0 | 23 |
| 25 | Biological and antibacterial properties of TiO ₂ coatings containing Ca/P/Ag by one-step and two-step methods. <i>Biomedical Microdevices</i> , 2020, 22, 24. | 2.8 | 12 |
| 26 | Self-adjusting antibacterial properties of Ag-incorporated nanotubes on micro-nanostructured Ti surfaces. <i>Biomaterials Science</i> , 2019, 7, 4075-4087. | 5.4 | 24 |
| 27 | Corrosion Motivated ROS Generation Helps Endow Titanium with Broad-Spectrum Antibacterial Abilities. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900514. | 3.7 | 17 |
| 28 | Regulating the Behavior of Human Gingival Fibroblasts by sp ² Domains in Reduced Graphene Oxide. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 6414-6424. | 5.2 | 8 |
| 29 | Nanostructural Surfaces with Different Elastic Moduli Regulate the Immune Response by Stretching Macrophages. <i>Nano Letters</i> , 2019, 19, 3480-3489. | 9.1 | 49 |
| 30 | Assembled gold nanorods for the photothermal killing of bacteria. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 173, 833-841. | 5.0 | 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. | 11.2 | 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. | 5.0 | 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. | 6.3 | 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. | 5.4 | 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. | 5.4 | 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. | 2.6 | 35 |

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|----|---|------|-----------|
| 37 | Effect of Local Alkaline Microenvironment on the Behaviors of Bacteria and Osteogenic Cells. ACS Applied Materials & Interfaces, 2018, 10, 42018-42029. | 8.0 | 110 |
| 38 | PEO/Mg-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. | 5.2 | 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. | 5.2 | 35 |
| 40 | Osteogenesis Catalyzed by Titanium-Supported Silver Nanoparticles. ACS Applied Materials & Interfaces, 2017, 9, 5149-5157. | 8.0 | 57 |
| 41 | How Oxygen-Containing Groups on Graphene Influence the Antibacterial Behaviors. Advanced Materials Interfaces, 2017, 4, 1700228. | 3.7 | 51 |
| 42 | Layer-Number Dependent Antibacterial and Osteogenic Behaviors of Graphene Oxide Electrophoretic Deposited on Titanium. ACS Applied Materials & Interfaces, 2017, 9, 12253-12263. | 8.0 | 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. | 8.3 | 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. | 3.3 | 74 |
| 45 | Butyrate-inserted Ni-Ti layered double hydroxide film for H ₂ O ₂ -mediated tumor and bacteria killing. Materials Today, 2017, 20, 238-257. | 14.2 | 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. | 6.7 | 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. | 3.7 | 17 |
| 48 | Restoring the osteogenic activity of bacterial debris contaminated titanium by doping with magnesium. RSC Advances, 2016, 6, 113395-113404. | 3.6 | 1 |
| 49 | Enhanced Corrosion Resistance and Biocompatibility of Magnesium Alloy by Mg-Al-Layered Double Hydroxide. ACS Applied Materials & Interfaces, 2016, 8, 35033-35044. | 8.0 | 173 |
| 50 | Oxidative stress-mediated selective antimicrobial ability of nano-VO ₂ against Gram-positive bacteria for environmental and biomedical applications. Nanoscale, 2016, 8, 11907-11923. | 5.6 | 64 |
| 51 | Poly(styrenesulfonate)-Modified Ni-Ti Layered Double Hydroxide Film: A Smart Drug-Eluting Platform. ACS Applied Materials & Interfaces, 2016, 8, 24491-24501. | 8.0 | 22 |
| 52 | Dielectrophoretic behaviours of microdroplet sandwiched between LN substrates. Scientific Reports, 2016, 6, 29166. | 3.3 | 31 |
| 53 | Preparation of Gold-Carbon Dots and Ratiometric Fluorescence Cellular Imaging. ACS Applied Materials & Interfaces, 2016, 8, 6646-6655. | 8.0 | 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. | 3.6 | 31 |

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|----|--|-----|-----------|
| 55 | The potential cytotoxicity and mechanism of VO ₂ thin films for intelligent thermochromic windows. RSC Advances, 2015, 5, 106315-106324. | 3.6 | 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. | 8.0 | 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. | 9.4 | 44 |