# Jianxin Wang

List of Publications by Year
in descending order



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|---|---|---|---|
| 47 papers | 1,387 citations | 361413 20 h-index | 345221 36 g-index |
| 47 all docs | 47 docs citations | 47 times ranked | 2395 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Hydrogen Bonding Interaction of Poly(d,l-Lactide)/hydroxyapatite Nanocomposites. Chemistry of Materials, 2007, 19, 247-253. | 6.7 | 237 |
| 2 | Biological evaluation of biphasic calcium phosphate ceramic vertebral laminae. Biomaterials, 1998, 19, 1387-1392. | 11.4 | 93 |
| 3 | Biomimetic Bacterial Cellulose-Enhanced Double-Network Hydrogel with Excellent Mechanical Properties Applied for the Osteochondral Defect Repair. ACS Biomaterials Science and Engineering, 2018, 4, 3534-3544. | 5.2 | 67 |
| 4 | Macrophage phenotype switch by sequential action of immunomodulatory cytokines from hydrogel layers on titania nanotubes. Colloids and Surfaces B: Biointerfaces, 2018, 163, 336-345. | 5.0 | 61 |
| 5 | A facile approach for the synthesis of highly luminescent carbon dots using vitamin-based small organic molecules with benzene ring structure as precursors. RSC Advances, 2015, 5, 90245-90254. | 3.6 | 60 |
| 6 | Synthesis of an RGD-grafted oxidized sodium alginateâ€“N-succinyl chitosan hydrogel and an in vitro study of endothelial and osteogenic differentiation. Journal of Materials Chemistry B, 2013, 1, 4484. | 5.8 | 57 |
| 7 | Micro/nanostructural porous surface on titanium and bioactivity. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 89B, 335-341. | 3.4 | 53 |
| 8 | Study of bilineage differentiation of human-bone-marrow-derived mesenchymal stem cells in oxidized sodium alginate/N-succinyl chitosan hydrogels and synergistic effects of RGD modification and low-intensity pulsed ultrasound. Acta Biomaterialia, 2014, 10, 2518-2528. | 8.3 | 51 |
| 9 | Ectopic osteogenesis and angiogenesis regulated by porous architecture of hydroxyapatite scaffolds with similar interconnecting structure in vivo. International Journal of Energy Production and Management, 2016, 3, 285-297. | 3.7 | 51 |
| 10 | Hydroxyapatite coating on titanium surface with titania nanotube layer and its bond strength to substrate. Journal of Porous Materials, 2010, 17, 453-458. | 2.6 | 48 |
| 11 | Ionic liquid-controlled synthesis of ZnO microspheres. Journal of Materials Chemistry, 2010, 20, 9798. | 6.7 | 43 |
| 12 | Optimal regenerative repair of large segmental bone defect in a goat model with osteoinductive calcium phosphate bioceramic implants. Bioactive Materials, 2022, 11, 240-253. | 15.6 | 37 |
| 13 | An injectable supramolecular self-healing bio-hydrogel with high stretchability, extensibility and ductility, and a high swelling ratio. Journal of Materials Chemistry B, 2017, 5, 7021-7034. | 5.8 | 33 |
| 14 | Improved corrosion resistance and biocompatibility of biodegradable magnesium alloy by coating graphite carbon nitride (g-C3N4). Journal of Alloys and Compounds, 2019, 770, 823-830. | 5.5 | 33 |
| 15 | Self-powered graphene quantum dot/poly(vinylidene fluoride) composites with remarkably enhanced mechanical-to-electrical conversion. RSC Advances, 2016, 6, 67400-67408. | 3.6 | 31 |
| 16 | Mixed Modification of the Surface Microstructure and Chemical State of Polyetheretherketone to Improve Its Antimicrobial Activity, Hydrophilicity, Cell Adhesion, and Bone Integration. ACS Biomaterials Science and Engineering, 2020, 6, 842-851. | 5.2 | 30 |
| 17 | Alginate/chitosan multilayer films coated on IL-4-loaded TiO2 nanotubes for modulation of macrophage phenotype. International Journal of Biological Macromolecules, 2019, 133, 503-513. | 7.5 | 29 |
| 18 | A single integrated osteochondral in situ composite scaffold with a multi-layered functional structure. Colloids and Surfaces B: Biointerfaces, 2018, 167, 354-363. | 5.0 | 28 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Heterostructured g-C<sub>3</sub>N<sub>4</sub>/Ag/TiO<sub>2</sub> nanocomposites for enhancing the photoelectric conversion efficiency of spiro-OMeTAD-based solid-state dye-sensitized solar cells. RSC Advances, 2016, 6, 102444-102452. | 3.6 | 25 |
| 20 | Constructing stable NiO/N-doped TiO2 nanotubes photocatalyst with enhanced visible-light photocatalytic activity. Journal of Materials Science: Materials in Electronics, 2015, 26, 2571-2578. | 2.2 | 24 |
| 21 | Osteoblast behaviors on titania nanotube and mesopore layers. International Journal of Energy Production and Management, 2017, 4, rbw042. | 3.7 | 22 |
| 22 | Co-culturing epidermal keratinocytes and dermal fibroblasts on nano-structured titanium surfaces. Materials Science and Engineering C, 2017, 78, 288-295. | 7.3 | 20 |
| 23 | Decyl bis phosphonateâ€“protein surface modification of Tiâ€“6Alâ€“4V via a layer-by-layer technique. Journal of Materials Science, 2009, 44, 4031-4039. | 3.7 | 17 |
| 24 | Graphene and Ag nanowires co-modified photoanodes for high-efficiency dye-sensitized solar cells. Solar Energy, 2015, 122, 966-975. | 6.1 | 17 |
| 25 | Alginate/chitosan multilayer films coated on IL-4-loaded TiO2 nanotubes for modulation of macrophage phenotype. International Journal of Biological Macromolecules, 2019, 132, 495-505. | 7.5 | 17 |
| 26 | Joint construction of micro-vibration stimulation and BCP scaffolds for enhanced bioactivity and self-adaptability tissue engineered bone grafts. Journal of Materials Chemistry B, 2020, 8, 4278-4288. | 5.8 | 16 |
| 27 | Nano-topographic titanium modulates macrophage response in vitro and in an implant-associated rat infection model. RSC Advances, 2016, 6, 111919-111927. | 3.6 | 15 |
| 28 | Biological responses to M13 bacteriophage modified titanium surfaces in vitro. Acta Biomaterialia, 2017, 58, 527-538. | 8.3 | 15 |
| 29 | A dynamic-coupling-reaction-based autonomous self-healing hydrogel with ultra-high stretching and adhesion properties. Journal of Materials Chemistry B, 2019, 7, 3044-3052. | 5.8 | 15 |
| 30 | A strategy using mesoporous polymer nanospheres as nanocarriers of Bcl-2 siRNA towards breast cancer therapy. Journal of Materials Chemistry B, 2019, 7, 477-487. | 5.8 | 14 |
| 31 | Effect of dexamethasone, Î²-glycerophosphate, OGP and BMP2 in TiO<sub>2</sub> nanotubes on differentiation of MSCs. Materials Technology, 2016, 31, 603-612. | 3.0 | 13 |
| 32 | Oneâ€step in situ synthesis and characterization of spongeâ€like porous calcium phosphate scaffolds using a solâ€“gel and gel casting hybrid process. Journal of Biomedical Materials Research - Part A, 2009, 90A, 401-410. | 4.0 | 12 |
| 33 | By Endowing Polyglutamic Acid/Polylysine Composite Hydrogel with Super Intrinsic Characteristics to Enhance its Wound Repair Potential. Macromolecular Bioscience, 2021, 21, e2000367. | 4.1 | 12 |
| 34 | Piezoelectric Effect of Antibacterial Biomimetic Hydrogel Promotes Osteochondral Defect Repair. Biomedicines, 2022, 10, 1165. | 3.2 | 12 |
| 35 | Hybrid use of combined and sequential delivery of growth factors and ultrasound stimulation in porous multilayer composite scaffolds to promote both vascularization and bone formation in bone tissue engineering. Journal of Biomedical Materials Research - Part A, 2016, 104, 195-208. | 4.0 | 11 |
| 36 | Porous nanoapatite scaffolds synthesized using an approach of interfacial mineralization reaction and their bioactivity. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 1749-1761. | 3.4 | 9 |

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|---|---|---|---|
| 37 | Sintering study of ITO using a ZnO-doped and microwave hybrid sintering approach. Journal of Asian Ceramic Societies, 2014, 2, 58-63. | 2.3 | 9 |
| 38 | Surface modification of polyetheretherketone by grafting amino groups to improve its hydrophilicity and cytocompatibility. Materials Research Express, 2019, 6, 115413. | 1.6 | 9 |
| 39 | Identification and binding mechanism of phage displayed peptides with specific affinity to acidâ¿¿alkali treated titanium. Colloids and Surfaces B: Biointerfaces, 2016, 146, 307-317. | 5.0 | 8 |
| 40 | A distinctive nanocomposite hydrogel integrated platform for the healing of wound after the resection of melanoma. Materialia, 2020, 14, 100931. | 2.7 | 8 |
| 41 | Influence of silver speciation on the inflammatory regulation of AgNPs anchoring onto titania nanotubes. Colloids and Surfaces B: Biointerfaces, 2020, 194, 111199. | 5.0 | 8 |
| 42 | Camphorsulfonic acid-doped polyaniline/TiO2 nanotube hybrids: synthesis strategy and enhanced visible photocatalytic activity. Journal of Materials Science: Materials in Electronics, 2015, 26, 7723-7730. | 2.2 | 7 |
| 43 | Study on phase transformation and controllable synthesis of calcium phosphate using a solâ€“gel approach. Journal of Sol-Gel Science and Technology, 2012, 63, 126-134. | 2.4 | 5 |
| 44 | In Vitro and In Vivo Antitumor Activity of Silver Nanoparticles on B16 Melanoma. Nano, 2020, 15, 2050163. | 1.0 | 3 |
| 45 | Constructing Geneâ€Enhanced Tissue Engineering for Regeneration and Repair of Osteochondral Defects. Advanced Biology, 2019, 3, 1900004. | 3.0 | 1 |
| 46 | Reinforcing the function of bone graft via the Ca-P ceramics dynamic behavior-enhanced osteogenic microenvironment for optimal bone regeneration and reconstruction. Applied Materials Today, 2022, 27, 101465. | 4.3 | 1 |
| 47 | Optimal regeneration and repair of critical size articular cartilage driven by endogenous CLECSF1. Biomedical Signal Processing and Control, 2022, 78, 103898. | 5.7 | 0 |