

Xiaodong Xing

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,575
citations

361413

20
h-index

330143

37
g-index

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all docs

37
docs citations

37
times ranked

2283
citing authors

#	ARTICLE	IF	CITATIONS
1	Covalently antibacterial alginate-chitosan hydrogel dressing integrated gelatin microspheres containing tetracycline hydrochloride for wound healing. <i>Materials Science and Engineering C</i> , 2017, 70, 287-295.	7.3	294
2	Injectable alginate/hydroxyapatite gel scaffold combined with gelatin microspheres for drug delivery and bone tissue engineering. <i>Materials Science and Engineering C</i> , 2016, 63, 274-284.	7.3	171
3	Magnetic and self-healing chitosan-alginate hydrogel encapsulated gelatin microspheres via covalent cross-linking for drug delivery. <i>Materials Science and Engineering C</i> , 2019, 101, 619-629.	7.3	149
4	Low-drug resistance carbon quantum dots decorated injectable self-healing hydrogel with potent antibiofilm property and cutaneous wound healing. <i>Chemical Engineering Journal</i> , 2021, 403, 126387.	12.7	102
5	Low-toxicity carbon quantum dots derived from gentamicin sulfate to combat antibiotic resistance and eradicate mature biofilms. <i>Chemical Communications</i> , 2020, 56, 2316-2319.	4.1	74
6	Microenvironment-Responsive Magnetic Nanocomposites Based on Silver Nanoparticles/Gentamicin for Enhanced Biofilm Disruption by Magnetic Field. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34905-34915.	8.0	70
7	A facile injectable carbon dot/oxidative polysaccharide hydrogel with potent self-healing and high antibacterial activity. <i>Carbohydrate Polymers</i> , 2021, 251, 117040.	10.2	68
8	Carbon quantum dots derived from lysine and arginine simultaneously scavenge bacteria and promote tissue repair. <i>Applied Materials Today</i> , 2020, 19, 100601.	4.3	59
9	Synthesis of chitosan/poly (ethylene glycol)-modified magnetic nanoparticles for antibiotic delivery and their enhanced anti-biofilm activity in the presence of magnetic field. <i>Journal of Materials Science</i> , 2018, 53, 6433-6449.	3.7	50
10	Development of a novel resin-based dental material with dual biocidal modes and sustained release of Ag ⁺ ions based on photocurable core-shell AgBr/cationic polymer nanocomposites. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 103.	3.6	48
11	Novel resin-based dental material with anti-biofilm activity and improved mechanical property by incorporating hydrophilic cationic copolymer functionalized nanodiamond. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 162.	3.6	41
12	Design of pH-Responsive Dissociable Nanosystem Based on Carbon Dots with Enhanced Anti-biofilm Property and Excellent Biocompatibility. <i>ACS Applied Bio Materials</i> , 2020, 3, 1105-1115.	4.6	35
13	Fabrication of charge reversible graphene oxide-based nanocomposite with multiple antibacterial modes and magnetic recyclability. <i>Journal of Colloid and Interface Science</i> , 2018, 511, 285-295.	9.4	34
14	Silver nanoparticle and lysozyme/tannic acid layer-by-layer assembly antimicrobial multilayer on magnetic nanoparticle by an eco-friendly route. <i>Materials Science and Engineering C</i> , 2017, 76, 886-896.	7.3	32
15	Recyclable magnetite-silver heterodimer nanocomposites with durable antibacterial performance. <i>Bioactive Materials</i> , 2018, 3, 80-86.	15.6	32
16	Surface chemistry-dependent antibacterial and antibiofilm activities of polyamine-functionalized carbon quantum dots. <i>Journal of Materials Science</i> , 2020, 55, 16744-16757.	3.7	30
17	Polystyrene-supported Cu ^I -imidazole complex catalyst for aza-Michael reaction of imidazoles with α,β -unsaturated compounds. <i>Journal of Molecular Catalysis A</i> , 2012, 353-354, 178-184.	4.8	27
18	Facile synthesis of cationic polymer functionalized nanodiamond with high dispersity and antibacterial activity. <i>Journal of Materials Science</i> , 2017, 52, 1856-1867.	3.7	25

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19	Triply-responsive (thermo/light/pH) copolymeric hydrogel of <i>N</i> -isopropylacrylamide with an azobenzene-containing monomer. <i>Journal of Applied Polymer Science</i> , 2012, 124, 1128-1136.	2.6	21
20	Mussel-inspired deposition of copper on titanium for bacterial inhibition and enhanced osseointegration in a periprosthetic infection model. <i>RSC Advances</i> , 2017, 7, 51593-51604.	3.6	21
21	Photothermal-enhanced antibacterial and antioxidant hydrogel dressings based on catechol-modified chitosan-derived carbonized polymer dots for effective treatment of wound infections. <i>Biomaterials Science</i> , 2022, 10, 2692-2705.	5.4	21
22	Dual action bactericides: Quaternary ammonium/ <i>N</i> -halamine-functionalized cellulose fiber. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	20
23	Biodegradable silver-loaded polycation modified nanodiamonds/polyurethane scaffold with improved antibacterial and mechanical properties for cartilage tissue repairing. <i>Journal of Materials Science: Materials in Medicine</i> , 2019, 30, 41.	3.6	16
24	Acid-activated ROS generator with folic acid targeting for bacterial biofilm elimination. <i>Materials Science and Engineering C</i> , 2021, 127, 112225.	7.3	16
25	Mechanical property and antibacterial activity of silver-loaded polycation functionalized nanodiamonds for use in resin-based dental material formulations. <i>Materials Letters</i> , 2018, 220, 104-107.	2.6	15
26	Cytocompatible Amphipathic Carbon Quantum Dots as Potent Membrane-Active Antibacterial Agents with Low Drug Resistance and Effective Inhibition of Biofilm Formation. <i>ACS Applied Bio Materials</i> , 2022, 5, 3290-3299.	4.6	13
27	Multi-sensitive copolymer hydrogels of <i>N</i> -isopropylacrylamide with several polymerizable azobenzene-containing monomers. <i>Journal of Polymer Research</i> , 2015, 22, 1.	2.4	12
28	Magnetic nanoparticles modified with quaternarized <i>N</i> -halamine based polymer and their antibacterial properties. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2016, 27, 1187-1199.	3.5	12
29	Designing of membrane-active nano-antimicrobials based on cationic copolymer functionalized nanodiamond: Influence of hydrophilic segment on antimicrobial activity and selectivity. <i>Materials Science and Engineering C</i> , 2018, 92, 307-316.	7.3	12
30	Preparation, characterization, and antibacterial activities of quaternarized <i>N</i> -halamine-grafted cellulose fibers. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	11
31	Fabrication of magnetic nanoparticles armed with quaternarized <i>N</i> -halamine polymers as recyclable antibacterial agents. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2016, 27, 1909-1925.	3.5	11
32	Preparation of grafted cationic polymer/silver chloride modified cellulose fibers and their antibacterial properties. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	8
33	An environmentally benign dual action antimicrobial: quaternized chitosan/sodium alga acid multilayer films and silver nanoparticles decorated on magnetic nanoparticles. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2016, 27, 1447-1461.	3.5	8
34	Preparation of porous semi-IPN temperature-sensitive hydrogel-supported nZVI and its application in the reduction of nitrophenol. <i>Journal of Environmental Sciences</i> , 2019, 82, 93-102.	6.1	7
35	Preparation and Antibacterial Function of Quaternary Ammonium Salts Grafted Cellulose Fiber Initiated by Fe ²⁺ + H ₂ O ₂ Redox. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2009, 46, 560-565.	2.2	4
36	Antibacterial carbon dots derived from polyethylene glycol/polyethyleneimine with potent anti-friction performance as water-based lubrication additives. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50620.	2.6	4

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37	Immobilization of N-Halamine Based Polycation on Nanodiamonds for High Dispersity and Enhanced Biocidal Activity. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 3126-3133.	0.9	2