

Xiang Cai

List of Publications by Year in descending order

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53
papers

2,456
citations

236612

25
h-index

197535

49
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54
all docs

54
docs citations

54
times ranked

4007
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption characteristics of acrylonitrile, p-toluenesulfonic acid, 1-naphthalenesulfonic acid and methyl blue on graphene in aqueous solutions. <i>Chemical Engineering Journal</i> , 2011, 173, 144-149.	6.6	322
2	The use of polyethyleneimine-modified reduced graphene oxide as a substrate for silver nanoparticles to produce a material with lower cytotoxicity and long-term antibacterial activity. <i>Carbon</i> , 2012, 50, 3407-3415.	5.4	236
3	Synergistic Antibacterial Brilliant Blue/Reduced Graphene Oxide/Quaternary Phosphonium Salt Composite with Excellent Water Solubility and Specific Targeting Capability. <i>Langmuir</i> , 2011, 27, 7828-7835.	1.6	145
4	Simultaneous Removal of Cationic and Anionic Dyes from Environmental Water Using Montmorillonite-Pillared Graphene Oxide. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 1270-1278.	1.0	125
5	Worm-like amorphous MnO ₂ nanowires grown on textiles for high-performance flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 595-599.	5.2	120
6	The utilization of bamboo charcoal enhances wood plastic composites with excellent mechanical and thermal properties. <i>Materials & Design</i> , 2014, 53, 419-424.	5.1	111
7	Poly-L-lysine-modified reduced graphene oxide stabilizes the copper nanoparticles with higher water-solubility and long-term additively antibacterial activity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 107, 107-114.	2.5	106
8	Antimicrobial effects of quaternary phosphonium salt intercalated clay minerals on <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 86, 232-236.	2.5	103
9	Quantitative Analysis of Charge Storage Process of Tungsten Oxide that Combines Pseudocapacitive and Electrochromic Properties. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16483-16489.	1.5	93
10	Bacteria-Adsorbed Palygorskite Stabilizes the Quaternary Phosphonium Salt with Specific-Targeting Capability, Long-Term Antibacterial Activity, and Lower Cytotoxicity. <i>Langmuir</i> , 2013, 29, 5279-5285.	1.6	77
11	A colon targeted drug delivery system based on alginate modified graphene oxide for colorectal liver metastasis. <i>Materials Science and Engineering C</i> , 2017, 79, 185-190.	3.8	69
12	Ag-Fe conjugations improve the long-term antibacterial properties of graphene oxide/quaternary ammonium salt nanocomposites. <i>Chemical Engineering Journal</i> , 2016, 304, 873-881.	6.6	65
13	Genipin-crosslinked carboxymethyl chitosan nanogel for lung-targeted delivery of isoniazid and rifampin. <i>Carbohydrate Polymers</i> , 2018, 197, 403-413.	5.1	60
14	Long-acting antibacterial activity of quaternary phosphonium salts functionalized few-layered graphite. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 1222-1226.	1.7	56
15	Sodium 1-naphthalenesulfonate-Functionalized Reduced Graphene Oxide Stabilizes Silver Nanoparticles with Lower Cytotoxicity and Long-Term Antibacterial Activity. <i>Chemistry - an Asian Journal</i> , 2012, 7, 1664-1670.	1.7	56
16	Electrochemical immunosensor for interferon- β based on disposable ITO detector and HRP-antibody-conjugated nano gold as signal tag. <i>Materials Science and Engineering C</i> , 2016, 59, 577-584.	3.8	50
17	Growth of nickel (111) plane: The key role in nickel for further improving the electrochemical property of hexagonal nickel hydroxide-nickel & reduced graphene oxide composite. <i>Journal of Power Sources</i> , 2014, 267, 356-365.	4.0	48
18	Effect of oil extraction on properties of spent coffee ground-plastic composites. <i>Journal of Materials Science</i> , 2016, 51, 10205-10214.	1.7	45

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19	Carboxymethyl cellulose-grafted graphene oxide for efficient antitumor drug delivery. <i>Nanotechnology Reviews</i> , 2018, 7, 291-301.	2.6	41
20	Utilizing polyaniline to dominate the crystal phase of Ni(OH) ₂ and its effect on the electrochemical property of polyaniline/Ni(OH) ₂ composite. <i>Journal of Alloys and Compounds</i> , 2015, 651, 126-134.	2.8	36
21	Preparation of montmorillonite-pillared graphene oxide with increased single- and co-adsorption towards lead ions and methylene blue. <i>RSC Advances</i> , 2015, 5, 3965-3973.	1.7	33
22	Chitosan derivatives co-delivering nitric oxide and methicillin for the effective therapy to the methicillin-resistant <i>S. aureus</i> infection. <i>Carbohydrate Polymers</i> , 2020, 234, 115928.	5.1	30
23	Evaluation of amylose used as a drug delivery carrier. <i>Carbohydrate Research</i> , 2010, 345, 922-928.	1.1	27
24	Self-sensitized polymeric prodrug co-delivering MMP-9 shRNA plasmid for combined treatment of tumors. <i>Acta Biomaterialia</i> , 2018, 69, 277-289.	4.1	27
25	Preparation, Characterization, and Release Behavior of Doxorubicin hydrochloride from Dual Cross-Linked Chitosan/Alginate Hydrogel Beads. <i>ACS Applied Bio Materials</i> , 2020, 3, 3057-3065.	2.3	27
26	Synthesis and anaerobic biodegradation of indomethacin-conjugated cellulose ethers used for colon-specific drug delivery. <i>Bioresource Technology</i> , 2009, 100, 4164-4170.	4.8	25
27	Amphiphilic cholesteryl-bearing carboxymethylcellulose derivatives: self-assembly and rheological behaviour in aqueous solution. <i>Cellulose</i> , 2008, 15, 659-669.	2.4	24
28	Preparation and characterization of wood-plastic composite reinforced by graphitic carbon nitride. <i>Materials & Design</i> , 2015, 66, 103-109.	5.1	24
29	Thermal stability and long-acting antibacterial activity of phosphonium montmorillonites. <i>Central South University</i> , 2010, 17, 485-491.	0.5	23
30	Three-level hierarchical TiO ₂ nanostructure based high efficiency dye-sensitized solar cells. <i>CrystEngComm</i> , 2014, 16, 1020-1025.	1.3	23
31	Fabrication of an interferon-gamma-based ITO detector for latent tuberculosis diagnosis with high stability and lower cost. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 3111-3119.	1.2	19
32	Transferrin-functionalized chitosan-graft-poly(L-lysine) dendrons as a high-efficiency gene delivery carrier for nasopharyngeal carcinoma therapy. <i>Journal of Materials Chemistry B</i> , 2018, 6, 4314-4325.	2.9	19
33	The utilization of cotton stalk bark to reinforce the mechanical and thermal properties of bio-flour plastic composites. <i>Construction and Building Materials</i> , 2016, 118, 337-343.	3.2	17
34	Fabrication of Few-Layered Porous Graphite for Removing Fluorosurfactant from Aqueous Solution. <i>Langmuir</i> , 2018, 34, 15181-15188.	1.6	16
35	Three-dimensional reduced graphene oxide aerogel stabilizes molybdenum trioxide with enhanced photocatalytic activity for dye degradation. <i>RSC Advances</i> , 2019, 9, 37573-37583.	1.7	16
36	Supramolecular Hydrogels Sustained Release Triclosan with Controlled Antibacterial Activity and Limited Cytotoxicity. <i>Science of Advanced Materials</i> , 2013, 5, 1400-1409.	0.1	14

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37	Heparin-modified graphene oxide loading anti-cancer drug and growth factor with heat stability, long-term release property and lower cytotoxicity. <i>RSC Advances</i> , 2015, 5, 84334-84342.	1.7	13
38	Preparation and characterization of corn cob/polypropylene composite reinforced by wood ash. <i>Polymer Bulletin</i> , 2018, 75, 2125-2138.	1.7	11
39	Fabrication of a Cu Nanoparticles/Poly(β -caprolactone)/Gelatin Fiber Membrane with Good Antibacterial Activity and Mechanical Property <i>via</i> Green Electrospinning. <i>ACS Applied Bio Materials</i> , 2021, 4, 6137-6147.	2.3	10
40	Alginate hydrogel sphere improves the alkali and heat resistances of isothiazolinones with long-term antibacterial activity. <i>Journal of Applied Polymer Science</i> , 2013, 130, 1554-1561.	1.3	9
41	Cetylpyridinium bromide/montmorillonite-graphene oxide composite with good antibacterial activity. <i>Biomedical Materials (Bristol)</i> , 2020, 15, 055002.	1.7	8
42	Supramolecular hydrogel containing multi-generation poly(L-lysine) dendrons for sustained co-delivery of docetaxel and matrix metalloproteinase-9 short hairpin RNA plasmid. <i>Journal of Bioactive and Compatible Polymers</i> , 2020, 35, 3-23.	0.8	7
43	Study the photocatalysis activity of hydrothermal-synthesized BiVO ₄ -graphene composite on methylene blue. <i>Desalination and Water Treatment</i> , 2016, 57, 6365-6371.	1.0	6
44	PMAA nanogel controllably releases anti-IL-1 β IgY for treating allergic rhinitis. <i>Journal of Polymer Research</i> , 2019, 26, 1.	1.2	6
45	Folate-Targeted pH and Redox Dual Stimulation-Responsive Nanocarrier for Codelivering of Docetaxel and TFPI-2 for Nasopharyngeal Carcinoma Therapy. <i>ACS Applied Bio Materials</i> , 2019, 2, 1830-1841.	2.3	6
46	β -Cyclodextrin-graft-poly(amidoamine) dendrons as the nitric oxide deliver system for the chronic rhinosinusitis therapy. <i>Drug Delivery</i> , 2021, 28, 306-318.	2.5	6
47	Fabrication of quaternary phosphonium-intercalated vermiculite for reinforcing UV-curable epoxy acrylate coatings. <i>Journal of Adhesion Science and Technology</i> , 2015, 29, 171-184.	1.4	4
48	Effect of artemisia argyi charcoal on the mechanical property and thermal stability of polypropylene. <i>Plastics, Rubber and Composites</i> , 2020, 49, 101-107.	0.9	4
49	Morphology and thermal and mechanical properties of phosphonium vermiculite filled poly(ethylene Terephthalate). <i>Journal of Applied Polymer Science</i> , 2017, 123, 1078-1083.	1.3	3
50	Preparation and Antimicrobial Activity of Antibacterial Silver-Loaded Polyphosphazene Microspheres. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 5120-5130.	0.9	3
51	Implanting a Copper Ion into a TiO ₂ Nanorod Array for the Investigation on the Synergistic Antibacterial Mechanism between Mechanical Cracking and Chemical Damage. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 1464-1475.	2.6	3
52	Preparation of organic vermiculite/polymethylmethacrylate nanocomposite featuring excellent mechanical and thermal properties via ultrasonic <i>in situ</i> polymerisation. <i>Plastics, Rubber and Composites</i> , 2017, 46, 333-340.	0.9	2
53	Fabrication of a TiO ₂ @Cu Core-Shell Nanorod Array as Coating for Titanium Substrate with Mechanical and Chemical Dual Antibacterial Property. <i>ACS Applied Bio Materials</i> , 2022, 5, 3349-3359.	2.3	2