Xiaojun Cai

List of Publications by Year
in descending order

38 papers	1,907 citations	331670 21 h-index	345221 36 g-index
38 all docs	38 docs citations	38 times ranked	2826 citing authors

#	Article	IF	Citations
1	Engineered Redoxâ€Responsive PEG Detachment Mechanism in PEGylated Nanoâ€Graphene Oxide for Intracellular Drug Delivery. Small, 2012, 8, 760-769.	10.0	308
2	Mesoporous Silica Nanoparticles Capped with Disulfide-Linked PEG Gatekeepers for Glutathione-Mediated Controlled Release. ACS Applied Materials & Interfaces, 2012, 4, 3177-3183.	8.0	175
3	Ultra-efficient Antibacterial System Based on Photodynamic Therapy and CO Gas Therapy for Synergistic Antibacterial and Ablation Biofilms. ACS Applied Materials & Interfaces, 2020, 12, 22479-22491.	8.0	122
4	Effective Gene Delivery Using Stimulus-Responsive Catiomer Designed with Redox-Sensitive Disulfide and Acid-Labile Imine Linkers. Biomacromolecules, 2012, 13, 1024-1034.	5.4	113
5	PDTâ€Driven Highly Efficient Intracellular Delivery and Controlled Release of CO in Combination with Sufficient Singlet Oxygen Production for Synergistic Anticancer Therapy. Advanced Functional Materials, 2018, 28, 1804324.	14.9	108
6	Engineered polyethylenimine/graphene oxide nanocomposite for nuclear localized gene delivery. Polymer Chemistry, 2012, 3, 2561.	3.9	104
7	Bioreducible Fluorinated Peptide Dendrimers Capable of Circumventing Various Physiological Barriers for Highly Efficient and Safe Gene Delivery. ACS Applied Materials & Interfaces, 2016, 8, 5821-5832.	8.0	99
8	A Versatile Multicomponent Assembly via Î²â€cyclodextrin Hostâ€“Guest Chemistry on Graphene for Biomedical Applications. Small, 2013, 9, 446-456.	10.0	73
9	<scp>L</scp>â€Argâ€Rich Amphiphilic Dendritic Peptide as a Versatile NO Donor for NO/Photodynamic Synergistic Treatment of Bacterial Infections and Promoting Wound Healing. Small, 2021, 17, e2101495.	10.0	73
10	A multifunctional anti-inflammatory drug that can specifically target activated macrophages, massively deplete intracellular H2O2, and produce large amounts CO for a highly efficient treatment of osteoarthritis. Biomaterials, 2020, 255, 120155.	11.4	63
11	Photodynamic and photothermal co-driven CO-enhanced multi-mode synergistic antibacterial nanoplatform to effectively fight against biofilm infections. Chemical Engineering Journal, 2021, 426, 131919.	12.7	63
12	Highly Efficient and Safe Delivery of VEGF siRNA by Bioreducible Fluorinated Peptide Dendrimers for Cancer Therapy. ACS Applied Materials & Interfaces, 2017, 9, 9402-9415.	8.0	57
13	Glutathione-mediated shedding of PEG layers based on disulfide-linked catiomers for DNA delivery. Journal of Materials Chemistry, 2011, 21, 14639.	6.7	54
14	Influence of reduction-sensitive diselenide bonds and disulfide bonds on oligoethylenimine conjugates for gene delivery. Journal of Materials Chemistry B, 2014, 2, 7210-7221.	5.8	53
15	Bionic Poly(Î³â€Glutamic Acid) Electrospun Fibrous Scaffolds for Preventing Hypertrophic Scars. Advanced Healthcare Materials, 2019, 8, e1900123.	7.6	51
16	An all-in-one CO gas therapy-based hydrogel dressing with sustained insulin release, anti-oxidative stress, antibacterial, and anti-inflammatory capabilities for infected diabetic wounds. Acta Biomaterialia, 2022, 146, 49-65.	8.3	42
17	A versatile chitosan nanogel capable of generating AgNPs in-situ and long-acting slow-release of Ag+ for highly efficient antibacterial. Carbohydrate Polymers, 2021, 257, 117636.	10.2	39
18	Biocompatible polyethylenimine-graft-dextran catiomer for highly efficient gene delivery assisted by a nuclear targeting ligand. Polymer Chemistry, 2013, 4, 2528.	3.9	36

#	Article	IF	Citations
19	Chitosan and polyhexamethylene guanidine dual-functionalized cotton gauze as a versatile bandage for the management of chronic wounds. Carbohydrate Polymers, 2022, 282, 119130.	10.2	26
20	Polyethylene glycol–poly(ε-benzyloxycarbonyl-L-lysine)-conjugated VEGF siRNA for antiangiogenic gene therapy in hepatocellular carcinoma. International Journal of Nanomedicine, 2017, Volume 12, 3591-3603.	6.7	25
21	Synthesis of amphipathic superparamagnetic Fe₃O₄ Janus nanoparticles via a moderate strategy and their controllable self-assembly. RSC Advances, 2016, 6, 40450-40458.	3.6	22
22	Reversible PEGylation and Schiff-base linked imidazole modification of polylysine for high-performance gene delivery. Journal of Materials Chemistry B, 2015, 3, 1507-1517.	5.8	20
23	The photoluminescence enhancement of electrospun poly(ethylene oxide) fibers with CdS and polyaniline inoculations. Acta Materialia, 2008, 56, 5775-5782.	7.9	19
24	Suppression of VEGF by Reversibleâ€PEGylated Histidylated Polylysine in Cancer Therapy. Advanced Healthcare Materials, 2014, 3, 1818-1827.	7.6	19
25	Galactose Decorated Acid-Labile Nanoparticles Encapsulating Quantum Dots for Enhanced Cellular Uptake and Subcellular Localization. Pharmaceutical Research, 2012, 29, 2167-2179.	3.5	17
26	The study on serum and urine of renal interstitial fibrosis rats induced by unilateral ureteral obstruction based on metabonomics and network analysis methods. Analytical and Bioanalytical Chemistry, 2016, 408, 2607-2619.	3.7	17
27	Chemical constituents of radix <scp>Actinidia chinensis</scp> planch by UPLCâ€“QTOFâ€“MS. Biomedical Chromatography, 2021, 35, e5103.	1.7	17
28	An Alternating Irradiation Strategyâ€Driven Combination Therapy of PDT and RNAi for Highly Efficient Inhibition of Tumor Growth and Metastasis. Advanced Healthcare Materials, 2021, 10, e2001850.	7.6	16
29	Peptide dendrimer-crosslinked inorganic-organic hybrid supramolecular hydrogel for efficient anti-biofouling. Chinese Chemical Letters, 2018, 29, 501-504.	9.0	15
30	Pharmacokinetics and pharmacodynamics study of rhein treating renal fibrosis based on metabonomics approach. Phytomedicine, 2016, 23, 1661-1670.	5.3	14
31	Promoted Transfection Efficiency of pDNA Polyplexes-Loaded Biodegradable Microparticles Containing Acid-Labile Segments and Galactose Grafts. Pharmaceutical Research, 2012, 29, 471-482.	3.5	12
32	Effects of spatial distribution of the nuclear localization sequence on gene transfection in catiomerâ€“gene polyplexes. Journal of Materials Chemistry B, 2013, 1, 1712.	5.8	11
33	Disulfide-Bridged Cleavable PEGylation of Poly-l-Lysine for SiRNA Delivery. Methods in Molecular Biology, 2016, 1364, 49-61.	0.9	9
34	A facile one-step gelation approach simultaneously combining physical and chemical cross-linking for the preparation of injectable hydrogels. Journal of Materials Chemistry B, 2017, 5, 3145-3153.	5.8	6
35	A Rapid UPLC-MS Method for Quantification of Gomisin D in Rat Plasma and Its Application to a Pharmacokinetic and Bioavailability Study. Molecules, 2019, 24, 1403.	3.8	5
36	Development of an UPLCâ€“MS/MS assay to determine psoralidin in rat plasma and its application in a pharmacokinetic study after intragastric administration. Acta Chromatographica, 2020, 32, 215-218.	1.3	4

#	Article	IF	Citations
37	Gene Therapy: Suppression of VEGF by Reversible-PEGylated Histidylated Polylysine in Cancer Therapy (Adv. Healthcare Mater. 11/2014). Advanced Healthcare Materials, 2014, 3, 1694-1694.	7.6	0
38	Correction: Reversible PEGylation and Schiff-base linked imidazole modification of polylysine for high-performance gene delivery. Journal of Materials Chemistry B, 2017, 5, 181-181.	5.8	0