You-xiang Wang

List of Publications by Year in descending order

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51 papers	1,317 citations	279487 23 h-index	360668 35 g-index
55 all docs	55 docs citations	55 times ranked	1838 citing authors

#	Article	IF	Citations
1	Tip-loaded fast-dissolving microneedle patches for photodynamic therapy of subcutaneous tumor. Journal of Controlled Release, 2018, 286, 201-209.	4.8	122
2	The development and characterization of a glutathione-sensitive cross-linked polyethylenimine gene vector. Biomaterials, 2006, 27, 5292-5298.	5.7	106
3	Cutaneous microenvironment responsive microneedle patch for rapid gene release to treat subdermal tumor. Journal of Controlled Release, 2019, 314, 72-80.	4.8	58
4	Construction and deconstruction of PLL/DNA multilayered films for DNA delivery: Effect of ionic strength. Colloids and Surfaces B: Biointerfaces, 2005, 46, 63-69.	2.5	55
5	Polypeptoids with tunable cloud point temperatures synthesized from N-substituted glycine N-thiocarboxyanhydrides. Polymer Chemistry, 2015, 6, 3164-3174.	1.9	51
6	Rapidly dissolving microneedle patch for synergistic gene and photothermal therapy of subcutaneous tumor. Journal of Materials Chemistry B, 2020, 8, 4331-4339.	2.9	47
7	Design and formulation of trimethylated chitosan-graft-poly(É›-caprolactone) nanoparticles used for gene delivery. Carbohydrate Polymers, 2014, 101, 104-112.	5.1	45
8	pH-responsive polydopamine nanoparticles for photothermally promoted gene delivery. Materials Science and Engineering C, 2020, 108, 110396.	3.8	40
9	Redox-responsive hyaluronic acid nanogels for hyperthermia- assisted chemotherapy to overcome multidrug resistance. Carbohydrate Polymers, 2019, 203, 378-385.	5.1	39
10	Redox-triggered intracellular dePEGylation based on diselenide-linked polycations for DNA delivery. Journal of Materials Chemistry B, 2013, 1, 6418.	2.9	37
11	Photoluminescent supramolecular hyperbranched polymer without conventional chromophores based on inclusion complexation. Chemical Communications, 2014, 50, 9584.	2.2	36
12	A facile approach to construct hyaluronic acid shielding polyplexes with improved stability and reduced cytotoxicity. Colloids and Surfaces B: Biointerfaces, 2011, 84, 259-266.	2.5	35
13	Multifunctional nanoparticles via hostâ€“guest interactions: a universal platform for targeted imaging and light-regulated gene delivery. Chemical Communications, 2014, 50, 1579.	2.2	35
14	Light-regulated hostâ€“guest interaction as a new strategy for intracellular PEG-detachable polyplexes to facilitate nuclear entry. Chemical Communications, 2012, 48, 10126.	2.2	34
15	Preparation of chitosan rods with excellent mechanical properties: One candidate for bone fracture internal fixation. Science China Chemistry, 2011, 54, 380-384.	4.2	32
16	Regulation the morphology of cationized gold nanoparticles for effective gene delivery. Colloids and Surfaces B: Biointerfaces, 2017, 157, 18-25.	2.5	32
17	The influence of cyclodextrin modification on cellular uptake and transfection efficiency of polyplexes. Organic and Biomolecular Chemistry, 2011, 9, 7799.	1.5	29
18	Functional Poly(Dimethyl Aminoethyl Methacrylate) by Combination of Radical Ringâ€Opening Polymerization and Click Chemistry for Biomedical Applications. Macromolecular Chemistry and Physics, 2012, 213, 1643-1654.	1.1	29

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19	Programmed photosensitizer conjugated supramolecular nanocarriers with dual targeting ability for enhanced photodynamic therapy. Chemical Communications, 2016, 52, 11935-11938.	2.2	29
20	Cell penetrating peptide-based polyplexes shelled with polysaccharide to improve stability and gene transfection. Nanoscale, 2015, 7, 8476-8484.	2.8	27
21	Biodegradable phosphorylcholine copolymer for cardiovascular stent coating. Journal of Materials Chemistry B, 2020, 8, 5361-5368.	2.9	27
22	Preparation and characterization of cellulose fiber/chitosan composites. Polymer Composites, 2009, 30, 1517-1522.	2.3	26
23	Bioinspired phosphorylcholine-modified polyplexes as an effective strategy for selective uptake and transfection of cancer cells. Colloids and Surfaces B: Biointerfaces, 2013, 111, 297-305.	2.5	26
24	Polydopamine nanoparticles with different sizes for NIR-promoted gene delivery and synergistic photothermal therapy. Colloids and Surfaces B: Biointerfaces, 2021, 208, 112125.	2.5	25
25	Preparation and magnetic properties of [P(St-co-AA)]Ni microspheres. Journal of Applied Polymer Science, 1997, 64, 1843-1848.	1.3	24
26	Polydopamine-based nanoparticles with excellent biocompatibility for photothermally enhanced gene delivery. RSC Advances, 2018, 8, 34596-34602.	1.7	23
27	Stability and Drug Loading of Spontaneous Vesicles of Comb-Like PEG Derivates. Macromolecular Rapid Communications, 2007, 28, 660-665.	2.0	20
28	Dissolving microneedles with a biphasic release of antibacterial agent and growth factor to promote wound healing. Biomaterials Science, 2022, 10, 2409-2416.	2.6	18
29	Cationized bovine serum albumin as gene carrier: Influence of specific secondary structure on DNA complexibility and gene transfection. Colloids and Surfaces B: Biointerfaces, 2016, 143, 37-46.	2.5	17
30	A miRNA stabilizing polydopamine nano-platform for intraocular delivery of miR-21-5p in glaucoma therapy. Journal of Materials Chemistry B, 2021, 9, 3335-3345.	2.9	17
31	A gene-coated microneedle patch based on industrialized ultrasonic spraying technology with a polycation vector to improve antitumor efficacy. Journal of Materials Chemistry B, 2021, 9, 5528-5536.	2.9	15
32	A facile entrapment approach to construct PEGylated polyplexes for improving stability in physiological condition. Colloids and Surfaces B: Biointerfaces, 2007, 58, 188-196.	2.5	14
33	Construction of caged polyplexes with a reversible intracellular unpacking property to improve stability and transfection. Acta Biomaterialia, 2008, 4, 1235-1243.	4.1	14
34	A Tough, Slippery, and Anticoagulant Double-Network Hydrogel Coating. ACS Applied Polymer Materials, 2022, 4, 5941-5951.	2.0	14
35	A facile approach to construct three-dimensional oriented chitosan scaffolds with in-situ precipitation method. Carbohydrate Polymers, 2010, 80, 408-412.	5.1	12
36	Azo-capped polysarcosine-b-polylysine as polypeptide gene vector: A new strategy to improve stability and easy optimization via hostâ€“guest interaction. Colloids and Surfaces B: Biointerfaces, 2015, 130, 31-39.	2.5	12

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37	Intracellular fluorescent light-up bioprobes with different morphology for image-guided photothermal cancer therapy. Colloids and Surfaces B: Biointerfaces, 2017, 154, 133-141.	2.5	12
38	DNA-loaded microbubbles with crosslinked bovine serum albumin shells for ultrasound-promoted gene delivery and transfection. Colloids and Surfaces B: Biointerfaces, 2018, 161, 279-287.	2.5	10
39	Bioinspired NO release coating enhances endothelial cells and inhibits smooth muscle cells. Journal of Materials Chemistry B, 2022, 10, 2454-2462.	2.9	9
40	An easy gene assembling strategy for light-promoted transfection by combining host-guest interaction of cucurbit[7]uril and gold nanoparticles. Scientific Reports, 2017, 7, 6064.	1.6	8
41	Build an implanted â€œarsenalâ€• detachable microneedles for NIR-triggered cancer photothermo-chemotherapy. Biomaterials Science, 2021, 9, 4737-4745.	2.6	8
42	A facile approach to construct hybrid multi-shell calcium phosphate gene particles. Journal of Zhejiang University: Science B, 2010, 11, 292-297.	1.3	7
43	R8-modified polysarcosine- b -polylysine polypeptide to enhance circulation stability and gene delivery efficiency. Journal of Controlled Release, 2015, 213, e50-e51.	4.8	7
44	The influence of substrate stiffness on osteogenesis of vascular smooth muscle cells. Colloids and Surfaces B: Biointerfaces, 2021, 197, 111388.	2.5	7
45	Cholesterol tethered bioresponsive polycation as a candidate for gene delivery. Materials Science and Engineering C, 2009, 29, 1066-1070.	3.8	5
46	Mir-22-incorporated polyelectrolyte coating prevents intima hyperplasia after balloon-induced vascular injury. Biomaterials Science, 2022, 10, 3612-3623.	2.6	5
47	Progress in non-viral gene delivery systems fabricated via supramolecular assembly. Science Bulletin, 2005, 50, 289-294.	1.7	4
48	Tat-conjugated hyaluronic acid enveloping polyplexes with facilitated nuclear entry and improved transfection. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 423, 124-130.	2.3	4
49	The substrate stiffness at physiological range significantly modulates vascular cell behavior. Colloids and Surfaces B: Biointerfaces, 2022, 214, 112483.	2.5	4
50	Development of Supramolecular Pseudoâ€Block Conjugates Based on Starâ€Shaped Polycation for DNA Delivery. Macromolecular Chemistry and Physics, 2015, 216, 1507-1515.	1.1	1
51	Laserâ€triggered Interfacial Generation of ROS Promotes a Rapid Fabrication of Polydopamine Coating. Macromolecular Materials and Engineering, 0, , 2100987.	1.7	0