Chuangnian Zhang

List of Publications by Year
in descending order

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55 papers	2,849 citations	201575 27 h-index	175177 52 g-index
56 all docs	56 docs citations	56 times ranked	3413 citing authors

#	Article	IF	Citations
1	Doxorubicin-loaded glycyrrhetinic acid-modified alginate nanoparticles for liver tumor chemotherapy. Biomaterials, 2012, 33, 2187-2196.	5.7	247
2	Synthetic Polymeric Antibacterial Hydrogel for Methicillin-Resistant Staphylococcus aureus-Infected Wound Healing: Nanoantimicrobial Self-Assembly, Drug- and Cytokine-Free Strategy. ACS Nano, 2020, 14, 12905-12917.	7.3	152
3	Engineering Dendritic-Cell-Based Vaccines and PD-1 Blockade in Self-Assembled Peptide Nanofibrous Hydrogel to Amplify Antitumor T-Cell Immunity. Nano Letters, 2018, 18, 4377-4385.	4.5	147
4	Nano-, micro-, and macroscale drug delivery systems for cancer immunotherapy. Acta Biomaterialia, 2019, 85, 1-26.	4.1	142
5	Injectable polypeptide hydrogel for dual-delivery of antigen and TLR3 agonist to modulate dendritic cells inÂvivo and enhance potent cytotoxic T-lymphocyte response against melanoma. Biomaterials, 2018, 159, 119-129.	5.7	132
6	Targeted antigen delivery to dendritic cell via functionalized alginate nanoparticles for cancer immunotherapy. Journal of Controlled Release, 2017, 256, 170-181.	4.8	128
7	Bioinspired Nanofibrous Glycopeptide Hydrogel Dressing for Accelerating Wound Healing: A Cytokineâ€Free, M2â€Type Macrophage Polarization Approach. Advanced Functional Materials, 2020, 30, 2006454.	7.8	123
8	Glycyrrhetinic acid-modified poly(ethylene glycol)â€“b-poly(Î³-benzyl l-glutamate) micelles for liver targeting therapy. Acta Biomaterialia, 2010, 6, 3927-3935.	4.1	114
9	Co-localized delivery of nanomedicine and nanovaccine augments the postoperative cancer immunotherapy by amplifying T-cell responses. Biomaterials, 2020, 230, 119649.	5.7	102
10	ECM-mimetic immunomodulatory hydrogel for methicillin-resistant Staphylococcus aureus â€“infected chronic skin wound healing. Science Advances, 2022, 8, .	4.7	102
11	Functional alginate nanoparticles for efficient intracellular release of doxorubicin and hepatoma carcinoma cell targeting therapy. International Journal of Pharmaceutics, 2013, 451, 1-11.	2.6	98
12	Enhanced Radiosensitization by Gold Nanoparticles with Acidâ€Triggered Aggregation in Cancer Radiotherapy. Advanced Science, 2019, 6, 1801806.	5.6	98
13	Injectable polypeptide hydrogel-based co-delivery of vaccine and immune checkpoint inhibitors improves tumor immunotherapy. Theranostics, 2019, 9, 2299-2314.	4.6	88
14	Cascade of reactive oxygen species generation by polyprodrug for combinational photodynamic therapy. Biomaterials, 2020, 255, 120210.	5.7	74
15	Biomimetic glycopeptide hydrogel coated PCL/nHA scaffold for enhanced cranial bone regeneration via macrophage M2 polarization-induced osteo-immunomodulation. Biomaterials, 2022, 285, 121538.	5.7	72
16	Effect of Resveratrol on Modulation of Endothelial Cells and Macrophages for Rapid Vascular Regeneration from Electrospun Poly(Îµ-caprolactone) Scaffolds. ACS Applied Materials & Interfaces, 2017, 9, 19541-19551.	4.0	67
17	A Light Responsive Nanoparticle-Based Delivery System Using Pheophorbide A Graft Polyethylenimine for Dendritic Cell-Based Cancer Immunotherapy. Molecular Pharmaceutics, 2017, 14, 1760-1770.	2.3	64
18	NO prodrug-conjugated, self-assembled, pH-responsive and galactose receptor targeted nanoparticles for co-delivery of nitric oxide and doxorubicin. Nanoscale, 2018, 10, 4179-4188.	2.8	60

#	Article	IF	Citations
19	Dendritic Cells Pulsed with Exosomes in Combination with PD-1 Antibody Increase the Efficacy of Sorafenib in Hepatocellular Carcinoma Model. Translational Oncology, 2018, 11, 250-258.	1.7	57
20	Polymer Composite Sponges with Inherent Antibacterial, Hemostatic, Inflammationâ€Modulating and Proregenerative Performances for Methicillinâ€Resistant Staphylococcus aureusâ€Infected Wound Healing. Advanced Healthcare Materials, 2021, 10, e2101247.	3.9	47
21	Polymer-lipid hybrid nanovesicle-enabled combination of immunogenic chemotherapy and RNAi-mediated PD-L1 knockdown elicits antitumor immunity against melanoma. Biomaterials, 2021, 268, 120579.	5.7	46
22	Redox- and light-responsive alginate nanoparticles as effective drug carriers for combinational anticancer therapy. Nanoscale, 2017, 9, 3304-3314.	2.8	44
23	Insight into glycyrrhetinic acid: The role of the hydroxyl group on liver targeting. International Journal of Pharmaceutics, 2010, 400, 153-157.	2.6	43
24	PolyTLR7/8a-conjugated, antigen-trapping gold nanorods elicit anticancer immunity against abscopal tumors by photothermal therapy-induced in situ vaccination. Biomaterials, 2021, 275, 120921.	5.7	40
25	Mannose-functionalized antigen nanoparticles for targeted dendritic cells, accelerated endosomal escape and enhanced MHC-I antigen presentation. Colloids and Surfaces B: Biointerfaces, 2021, 197, 111378.	2.5	38
26	The regeneration of macroâ€porous electrospun poly(É›â€caprolactone) vascular graft during longâ€term in situ implantation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 1618-1627.	1.6	32
27	Superhydrophilic fluorinated polymer and nanogel for high-performance 19F magnetic resonance imaging. Biomaterials, 2020, 256, 120184.	5.7	31
28	Dual pH-responsive â€œcharge-reversal likeâ€•gold nanoparticles to enhance tumor retention for chemo-radiotherapy. Nano Research, 2019, 12, 2815-2826.	5.8	29
29	The surrounding tissue contributes to smooth muscle cellsâ€™ regeneration and vascularization of small diameter vascular grafts. Biomaterials Science, 2019, 7, 914-925.	2.6	29
30	Multifunctional Natural Polymer Nanoparticles as Antifibrotic Gene Carriers for CKD Therapy. Journal of the American Society of Nephrology: JASN, 2020, 31, 2292-2311.	3.0	29
31	Chitosan/calcium phosphates nanosheet as a vaccine carrier for effective cross-presentation of exogenous antigens. Carbohydrate Polymers, 2019, 224, 115172.	5.1	26
32	3D printing of implantable elastic PLCL copolymer scaffolds. Soft Matter, 2020, 16, 2141-2148.	1.2	26
33	Engineering biodegradable guanidyl-decorated PEG-PCL nanoparticles as robust exogenous activators of DCs and antigen cross-presentation. Nanoscale, 2017, 9, 13413-13418.	2.8	24
34	Supramolecular co-assembly of self-adjuvanting nanofibrious peptide hydrogel enhances cancer vaccination by activating MyD88-dependent NF-ÎºB signaling pathway without inflammation. Bioactive Materials, 2021, 6, 3924-3934.	8.6	23
35	Cytotoxicity of liver targeted drug-loaded alginate nanoparticles. Science in China Series B: Chemistry, 2009, 52, 1382-1387.	0.8	22
36	Glycyrrhetinic acid-modified nanoparticles for drug delivery: Preparation and characterization. Science Bulletin, 2009, 54, 3121-3126.	1.7	22

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37	Bio-orthogonal click reaction-enabled highly specific in situ cellularization of tissue engineering scaffolds. Biomaterials, 2020, 230, 119615.	5.7	21
38	Antigen epitope-TLR7/8a conjugate as self-assembled carrier-free nanovaccine for personalized immunotherapy. Acta Biomaterialia, 2022, 141, 398-407.	4.1	21
39	Titanium alloy composited with dual-cytokine releasing polysaccharide hydrogel to enhance osseointegration via osteogenic and macrophage polarization signaling pathways. International Journal of Energy Production and Management, 2022, 9, .	1.9	20
40	Guanidinylated cationic nanoparticles as robust protein antigen delivery systems and adjuvants for promoting antigen-specific immune responses in vivo. Journal of Materials Chemistry B, 2016, 4, 5608-5620.	2.9	18
41	Co-delivery of anionic epitope/CpG vaccine and IDO inhibitor by self-assembled cationic liposomes for combination melanoma immunotherapy. Journal of Materials Chemistry B, 2021, 9, 3892-3899.	2.9	18
42	Self-assembled PEG-b-PDPA-b-PGEM copolymer nanoparticles as protein antigen delivery vehicles to dendritic cells: preparation, characterization and cellular uptake. International Journal of Energy Production and Management, 2017, 4, 11-20.	1.9	17
43	Co-delivery of doxorubicin and pheophorbide A by pluronic F127 micelles for chemo-photodynamic combination therapy of melanoma. Journal of Materials Chemistry B, 2018, 6, 3305-3314.	2.9	17
44	Synthetic, Supramolecular, and Selfâ€Adjuvanting CD8⁺ Tâ€Cell Epitope Vaccine Increases the Therapeutic Antitumor Immunity. Advanced Therapeutics, 2019, 2, 1900010.	1.6	15
45	A Generic Coordination Assemblyâ€Enabled Nanocoating of Individual Tumor Cells for Personalized Immunotherapy. Advanced Healthcare Materials, 2019, 8, e1900474.	3.9	14
46	Self-assembling, self-adjuvanting and fully synthetic peptide nanovaccine for cancer immunotherapy. Smart Materials in Medicine, 2021, 2, 237-249.	3.7	14
47	Tumor acid microenvironment-activated self-targeting & splitting gold nanoassembly for tumor chemo-radiotherapy. Bioactive Materials, 2022, 7, 377-388.	8.6	11
48	In Vivo Insulin Peptide Autoantigen Delivery by Mannosylated Sodium Alginate Nanoparticles Delayed but Could Not Prevent the Onset of Type 1 Diabetes in Nonobese Diabetic Mice. Molecular Pharmaceutics, 2021, 18, 1806-1818.	2.3	9
49	Antigen-Conjugated Silica Solid Sphere as Nanovaccine for Cancer Immunotherapy . International Journal of Nanomedicine, 2020, Volume 15, 2685-2697.	3.3	8
50	Antitumor activity of drug loaded glycyrrhetinic acid modified alginate nanoparticles on mice bearing orthotopic liver tumor. Journal of Controlled Release, 2011, 152, e111-e113.	4.8	7
51	Cascaded amplification of intracellular oxidative stress and reversion of multidrug resistance by nitric oxide prodrug based-supramolecular hydrogel for synergistic cancer chemotherapy. Bioactive Materials, 2021, 6, 3300-3313.	8.6	7
52	In vitro evidence of oncofetal antigen and TLR-9 agonist co-delivery by alginate nanovaccine for liver cancer immunotherapy. Biomaterials Science, 2022, , .	2.6	6
53	Gelatinized PLCL Electrospun Membrane for the Prevention of Postoperative Abdominal Adhesion Through Fibrinolysis Activation. Advanced Materials Interfaces, 2022, 9, .	1.9	4
54	Radial porous SiO2 nanoflowers potentiate the effect of antigen/adjuvant in antitumor immunotherapy. Frontiers of Chemical Science and Engineering, 2021, 15, 1296-1311.	2.3	3

#	Article	IF	Citations
55	Correction: Guanidinylated cationic nanoparticles as robust protein antigen delivery systems and adjuvants for promoting antigen-specific immune responses in vivo. Journal of Materials Chemistry B, 2016, 4, 6746-6747.	2.9	1