

Tuo Wei

List of Publications by Year in descending order

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35
papers

4,960
citations

186265

28
h-index

377865

34
g-index

35
all docs

35
docs citations

35
times ranked

7524
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective organ targeting (SORT) nanoparticles for tissue-specific mRNA delivery and CRISPR-Cas gene editing. <i>Nature Nanotechnology</i> , 2020, 15, 313-320.	31.5	932
2	Size-Dependent Localization and Penetration of Ultrasmall Gold Nanoparticles in Cancer Cells, Multicellular Spheroids, and Tumors <i>in Vivo</i> . <i>ACS Nano</i> , 2012, 6, 4483-4493.	14.6	724
3	Systemic nanoparticle delivery of CRISPR-Cas9 ribonucleoproteins for effective tissue specific genome editing. <i>Nature Communications</i> , 2020, 11, 3232.	12.8	328
4	Anticancer drug nanomicelles formed by self-assembling amphiphilic dendrimer to combat cancer drug resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2978-2983.	7.1	318
5	Superior Penetration and Retention Behavior of 50 nm Gold Nanoparticles in Tumors. <i>Cancer Research</i> , 2013, 73, 319-330.	0.9	281
6	Membrane-destabilizing ionizable phospholipids for organ-selective mRNA delivery and CRISPR-Cas gene editing. <i>Nature Materials</i> , 2021, 20, 701-710.	27.5	281
7	Gold nanoparticles functionalized with therapeutic and targeted peptides for cancer treatment. <i>Biomaterials</i> , 2012, 33, 1180-1189.	11.4	280
8	Multifunctional aptamer-based nanoparticles for targeted drug delivery to circumvent cancer resistance. <i>Biomaterials</i> , 2016, 91, 44-56.	11.4	186
9	Functionalized Nanoscale Micelles Improve Drug Delivery for Cancer Therapy <i>In Vitro</i> and <i>In Vivo</i> . <i>Nano Letters</i> , 2013, 13, 2528-2534.	9.1	178
10	Getting Drugs Across Biological Barriers. <i>Advanced Materials</i> , 2017, 29, 1606596.	21.0	149
11	Dendrimer-Based Lipid Nanoparticles Deliver Therapeutic FAH mRNA to Normalize Liver Function and Extend Survival in a Mouse Model of Hepatorenal Tyrosinemia Type I. <i>Advanced Materials</i> , 2018, 30, e1805308.	21.0	136
12	Amphiphilic and biodegradable methoxy polyethylene glycol-block-(polycaprolactone-graft-poly(2-(dimethylamino)ethyl methacrylate)) as an effective gene carrier. <i>Biomaterials</i> , 2011, 32, 879-889.	11.4	97
13	Enhancing CRISPR/Cas gene editing through modulating cellular mechanical properties for cancer therapy. <i>Nature Nanotechnology</i> , 2022, 17, 777-787.	31.5	80
14	Ternary complexes of amphiphilic polycaprolactone-graft-poly (N,N-dimethylaminoethyl methacrylate), DNA and polyglutamic acid-graft-poly(ethylene glycol) for gene delivery. <i>Biomaterials</i> , 2011, 32, 4283-4292.	11.4	79
15	The Promising Nanocarrier for Doxorubicin and siRNA Co-delivery by PDMAEMA-based Amphiphilic Nanomicelles. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4347-4356.	8.0	76
16	Gene transfection efficacy and biocompatibility of polycation/DNA complexes coated with enzyme degradable PEGylated hyaluronic acid. <i>Biomaterials</i> , 2013, 34, 6495-6503.	11.4	72
17	Delivery of Tissue-Targeted Scalpels: Opportunities and Challenges for <i>In Vivo</i> CRISPR/Cas-Based Genome Editing. <i>ACS Nano</i> , 2020, 14, 9243-9262.	14.6	69
18	Dendrimeric nanosystem consistently circumvents heterogeneous drug response and resistance in pancreatic cancer. <i>Exploration</i> , 2021, 1, 21-34.	11.0	64

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19	Effects of hydrophobic core components in amphiphilic PDMAEMA nanoparticles on siRNA delivery. <i>Biomaterials</i> , 2015, 48, 45-55.	11.4	63
20	Quercetin-loaded nanomicelles to circumvent human castration-resistant prostate cancer in vitro and in vivo. <i>Nanoscale</i> , 2016, 8, 5126-5138.	5.6	63
21	CO ₂ gas induced drug release from pH-sensitive liposome to circumvent doxorubicin resistant cells. <i>Chemical Communications</i> , 2012, 48, 4869.	4.1	62
22	Zinc Oxide Nanoparticles as Adjuvant To Facilitate Doxorubicin Intracellular Accumulation and Visualize pH-Responsive Release for Overcoming Drug Resistance. <i>Molecular Pharmaceutics</i> , 2016, 13, 1723-1730.	4.6	61
23	Theranostic dendrimer-based lipid nanoparticles containing PEGylated BODIPY dyes for tumor imaging and systemic mRNA delivery in vivo. <i>Journal of Controlled Release</i> , 2020, 325, 198-205.	9.9	59
24	All-in-One Dendrimer-Based Lipid Nanoparticles Enable Precise HDR-Mediated Gene Editing In Vivo. <i>Advanced Materials</i> , 2021, 33, e2006619.	21.0	52
25	Aggregated single-walled carbon nanotubes attenuate the behavioural and neurochemical effects of methamphetamine in mice. <i>Nature Nanotechnology</i> , 2016, 11, 613-620.	31.5	51
26	Polymer-tetrodotoxin conjugates to induce prolonged duration local anesthesia with minimal toxicity. <i>Nature Communications</i> , 2019, 10, 2566.	12.8	47
27	The effect of guanidinylation of PEGylated poly(2-aminoethyl methacrylate) on the systemic delivery of siRNA. <i>Biomaterials</i> , 2013, 34, 3120-3131.	11.4	46
28	Multifunctional Metal Rattle-Type Nanocarriers for MRI-Guided Photothermal Cancer Therapy. <i>Molecular Pharmaceutics</i> , 2014, 11, 3386-3394.	4.6	32
29	Hollow Silica Nanoparticles Penetrate the Peripheral Nerve and Enhance the Nerve Blockade from Tetrodotoxin. <i>Nano Letters</i> , 2018, 18, 32-37.	9.1	29
30	Lipid-Modified Aminoglycosides for mRNA Delivery to the Liver. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901487.	7.6	25
31	Light-Emitting Photon-Upconversion Nanoparticles in the Generation of Transdermal Reactive-Oxygen Species. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41737-41747.	8.0	15
32	A self-assembled DNA nanostructure for targeted and pH-triggered drug delivery to combat doxorubicin resistance. <i>Journal of Materials Chemistry B</i> , 2016, 4, 3854-3858.	5.8	14
33	Hydrophobic Optimization of Functional Poly(TPAE-co-suberoyl chloride) for Extrahepatic mRNA Delivery following Intravenous Administration. <i>Pharmaceutics</i> , 2021, 13, 1914.	4.5	7
34	Balancing Biocompatibility, Internalization and Pharmacokinetics of Polycations/siRNA by Structuring the Weak Negative Charged Ternary Complexes with Hyaluronic Acid. <i>Journal of Biomedical Nanotechnology</i> , 2017, 13, 1533-1544.	1.1	4
35	Multifunctional metal rattle-type nanocarriers for MRI-guided photothermal cancer therapy. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0