Qiaobing Xu

List of Publications by Year
in descending order

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		76196	91712
81	5,122	40	69
papers	citations	h-index	g-index

85	85	85	6152
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Efficient delivery of genome-editing proteins using bioreducible lipid nanoparticles. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2868-2873.	3.3	495
2	Treatment of autosomal dominant hearing loss by in vivo delivery of genome editing agents. Nature, 2018, 553, 217-221.	13.7	412
3	Engineering the Delivery System for CRISPR-Based Genome Editing. Trends in Biotechnology, 2018, 36, 173-185.	4.9	260
4	Fast and Efficient CRISPR/Cas9 Genome Editing In Vivo Enabled by Bioreducible Lipid and Messenger RNA Nanoparticles. Advanced Materials, 2019, 31, e1902575.	11.1	244
5	Combinatorially Designed Lipidâ€like Nanoparticles for Intracellular Delivery of Cytotoxic Protein for Cancer Therapy. Angewandte Chemie - International Edition, 2014, 53, 2893-2898.	7.2	215
6	Reactive Oxygen Speciesâ€Responsive Protein Modification and Its Intracellular Delivery for Targeted Cancer Therapy. Angewandte Chemie - International Edition, 2014, 53, 13444-13448.	7.2	212
7	Lipid nanoparticle-mediated codelivery of Cas9 mRNA and single-guide RNA achieves liver-specific in vivo genome editing ofAngptl3. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	192
8	A toolkit of thread-based microfluidics, sensors, and electronics for 3D tissue embedding for medical diagnostics. Microsystems and Nanoengineering, 2016, 2, 16039.	3.4	162
9	Lung-selective mRNA delivery of synthetic lipid nanoparticles for the treatment of pulmonary lymphangioleiomyomatosis. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	156
10	Janus Gold Nanoplatform for Synergetic Chemoradiotherapy and Computed Tomography Imaging of Hepatocellular Carcinoma. ACS Nano, 2017, 11, 12732-12741.	7.3	136
11	Neuronal Differentiation of Human Mesenchymal Stem Cells Using Exosomes Derived from Differentiating Neuronal Cells. PLoS ONE, 2015, 10, e0135111.	1.1	120
12	Integrating Combinatorial Lipid Nanoparticle and Chemically Modified Protein for Intracellular Delivery and Genome Editing. Accounts of Chemical Research, 2019, 52, 665-675.	7.6	99
13	Neurotransmitter-derived lipidoids (NT-lipidoids) for enhanced brain delivery through intravenous injection. Science Advances, 2020, 6, eabb4429.	4.7	89
14	Integrating Protein Engineering and Bioorthogonal Click Conjugation for Extracellular Vesicle Modulation and Intracellular Delivery. PLoS ONE, 2015, 10, e0141860.	1.1	86
15	The NIH Somatic Cell Genome Editing program. Nature, 2021, 592, 195-204.	13.7	84
16	Enhanced Intracellular siRNA Delivery using Bioreducible Lipidâ€Like Nanoparticles. Advanced Healthcare Materials, 2014, 3, 1398-1403.	3.9	76
17	Design and synthesis of novel sandwich-type C@TiO₂@C hollow microspheres as efficient sulfur hosts for advanced lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2018, 6, 1630-1638.	5.2	76
18	Intracellular delivery and biodistribution study of CRISPR/Cas9 ribonucleoprotein loaded bioreducible lipidoid nanoparticles. Biomaterials Science, 2019, 7, 596-606.	2.6	74

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19	Imidazoleâ€Based Synthetic Lipidoids for Inâ€...Vivo mRNA Delivery into Primary T Lymphocytes. Angewandte Chemie - International Edition, 2020, 59, 20083-20089.	7.2	74
20	Combinatorial Library of Lipidoids for In Vitro DNA Delivery. Bioconjugate Chemistry, 2012, 23, 135-140.	1.8	69
21	Combinatorial library of chalcogen-containing lipidoids for intracellular delivery of genome-editing proteins. Biomaterials, 2018, 178, 652-662.	5.7	63
22	Active Targeting of the Nucleus Using Nonpeptidic Boronate Tags. Journal of the American Chemical Society, 2017, 139, 8547-8551.	6.6	60
23	High Throughput Screening of Dynamic Silkâ€Elastinâ€Like Protein Biomaterials. Advanced Functional Materials, 2014, 24, 4303-4310.	7.8	59
24	Targeted delivery of immune therapeutics to lymph nodes prolongs cardiac allograft survival. Journal of Clinical Investigation, 2018, 128, 4770-4786.	3.9	59
25	Developing Biodegradable Lipid Nanoparticles for Intracellular mRNA Delivery and Genome Editing. Accounts of Chemical Research, 2021, 54, 4001-4011.	7.6	59
26	Ex vivo cell-based CRISPR/Cas9 genome editing for therapeutic applications. Biomaterials, 2020, 234, 119711.	5.7	58
27	Scaffold-mediated CRISPR-Cas9 delivery system for acute myeloid leukemia therapy. Science Advances, 2021, 7, .	4.7	56
28	Combinatorial library strategies for synthesis of cationic lipid-like nanoparticles and their potential medical applications. Nanomedicine, 2015, 10, 643-657.	1.7	53
29	Efficient Delivery of Antisense Oligonucleotides Using Bioreducible Lipid Nanoparticles InÂVitro and InÂVivo. Molecular Therapy - Nucleic Acids, 2020, 19, 1357-1367.	2.3	53
30	Hyaluronic acid modification of RNase A and its intracellular delivery using lipid-like nanoparticles. Journal of Controlled Release, 2017, 263, 39-45.	4.8	52
31	Nanoparticles for CRISPRâ€“Cas9 delivery. Nature Biomedical Engineering, 2017, 1, 854-855.	11.6	52
32	A Combinatorial Library of Unsaturated Lipidoids for Efficient Intracellular Gene Delivery. ACS Synthetic Biology, 2012, 1, 403-407.	1.9	50
33	In situ cancer vaccination using lipidoid nanoparticles. Science Advances, 2021, 7, .	4.7	49
34	A novel Lipidoid-MicroRNA formulation promotes calvarial bone regeneration. Biomaterials, 2018, 177, 88-97.	5.7	46
35	Protein and mRNA Delivery Enabled by Cholesterylâ€Based Biodegradable Lipidoid Nanoparticles. Angewandte Chemie - International Edition, 2020, 59, 14957-14964.	7.2	44
36	Biocompatibility and degradation of tendon-derived scaffolds. International Journal of Energy Production and Management, 2016, 3, 1-11.	1.9	43

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37	3D Printing of Silk Protein Structures by Aqueous Solventâ€Directed Molecular Assembly. Macromolecular Bioscience, 2020, 20, e1900191.	2.1	42
38	Current Developments and Challenges of mRNA Vaccines. Annual Review of Biomedical Engineering, 2022, 24, 85-109.	5.7	39
39	Intracellular delivery of the PTEN protein using cationic lipidoids for cancer therapy. Biomaterials Science, 2016, 4, 1773-1780.	2.6	37
40	All electronic approach for high-throughput cell trapping and lysis with electrical impedance monitoring. Biosensors and Bioelectronics, 2014, 54, 462-467.	5.3	35
41	DOPE facilitates quaternized lipidoids (QLDs) for in vitro DNA delivery. Nanomedicine: Nanotechnology, Biology, and Medicine, 2013, 9, 849-854.	1.7	33
42	Nanostructured Tendon-Derived Scaffolds for Enhanced Bone Regeneration by Human Adipose-Derived Stem Cells. ACS Applied Materials & Interfaces, 2016, 8, 22819-22829.	4.0	33
43	In Vitro Engineering Chimeric Antigen Receptor Macrophages and T Cells by Lipid Nanoparticle-Mediated mRNA Delivery. ACS Biomaterials Science and Engineering, 2022, 8, 722-733.	2.6	32
44	Tailoring combinatorial lipid nanoparticles for intracellular delivery of nucleic acids, proteins, and drugs. Acta Pharmaceutica Sinica B, 2022, 12, 2624-2639.	5.7	30
45	The behavior of neuronal cells on tendon-derived collagen sheets as potential substrates for nerve regeneration. Biomaterials, 2014, 35, 3551-3557.	5.7	29
46	Challenges in delivering therapeutic peptides and proteins: A silk-based solution. Journal of Controlled Release, 2022, 345, 176-189.	4.8	28
47	Intracellular Delivery of Hisâ€Tagged Genomeâ€Editing Proteins Enabled by Nitrilotriacetic Acidâ€“Containing Lipidoid Nanoparticles. Advanced Healthcare Materials, 2019, 8, e1800996.	3.9	27
48	Hyperâ€Crosslinkers Lead to Temperatureâ€and pHâ€Responsive Polymeric Nanogels with Unusual Volume Change. Angewandte Chemie - International Edition, 2017, 56, 2623-2627.	7.2	24
49	Live-vaccinia virus encapsulation in pH-sensitive polymer increases safety of a reservoir-targeted Lyme disease vaccine by targeting gastrointestinal release. Vaccine, 2016, 34, 4507-4513.	1.7	23
50	Nonviral Nanoparticles for CRISPR-Based Genome Editing: Is It Just a Simple Adaption of What Have Been Developed for Nucleic Acid Delivery?. Biomacromolecules, 2019, 20, 3333-3339.	2.6	23
51	mRNA Delivery Using Bioreducible Lipidoid Nanoparticles Facilitates Neural Differentiation of Human Mesenchymal Stem Cells. Advanced Healthcare Materials, 2021, 10, e2000938.	3.9	23
52	Evaluation of an elastic decellularized tendonâ€derived scaffold for the vascular tissue engineering application. Journal of Biomedical Materials Research - Part A, 2019, 107, 1225-1234.	2.1	22
53	Intracellular Antibody Delivery Mediated by Lipids, Polymers, and Inorganic Nanomaterials for Therapeutic Applications. Advanced Therapeutics, 2020, 3, 2000178.	1.6	21
54	Laminar tendon composites with enhanced mechanical properties. Journal of Materials Science, 2015, 50, 2616-2625.	1.7	20

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55	Triggered Release of Encapsulated Cargo from Photoresponsive Polyelectrolyte Nanocomplexes. ACS Applied Materials & Interfaces, 2016, 8, 23517-23522.	4.0	19
56	Enhanced protein degradation by intracellular delivery of pre-fused PROTACs using lipid-like nanoparticles. Journal of Controlled Release, 2021, 330, 1244-1249.	4.8	19
57	Chemically Engineered Nanoparticleâ€“Protein Interface for Realâ€Time Cellular Oxidative Stress Monitoring. Small, 2016, 12, 3775-3779.	5.2	18
58	Synthetic bioreducible lipidâ€based nanoparticles for miRNA delivery to mesenchymal stem cells to induce neuronal differentiation. Bioengineering and Translational Medicine, 2016, 1, 160-167.	3.9	18
59	CRISPR/Cas9 ribonucleoprotein-mediated genome and epigenome editing in mammalian cells. Advanced Drug Delivery Reviews, 2022, 181, 114087.	6.6	18
60	In Vivo Peripheral Nerve Repair Using Tendon-Derived Nerve Guidance Conduits. ACS Biomaterials Science and Engineering, 2016, 2, 937-945.	2.6	15
61	Polymer Amphiphiles for Photoregulated Anticancer Drug Delivery. ACS Applied Materials & Interfaces, 2019, 11, 2814-2820.	4.0	15
62	Protein and mRNA Delivery Enabled by Cholesterylâ€Based Biodegradable Lipidoid Nanoparticles. Angewandte Chemie, 2020, 132, 15067-15074.	1.6	15
63	Combinatorial Library of Cyclic Benzylidene Acetal-Containing pH-Responsive Lipidoid Nanoparticles for Intracellular mRNA Delivery. Bioconjugate Chemistry, 2020, 31, 1835-1843.	1.8	15
64	Developing chemically modified redox-responsive proteins as smart therapeutics. Chemical Communications, 2019, 55, 5163-5166.	2.2	14
65	Design of Silk-Elastin-Like Protein Nanoparticle Systems with Mucoadhesive Properties. Journal of Functional Biomaterials, 2019, 10, 49.	1.8	13
66	The Construction of Biomimetic Cementum Through a Combination of Bioskiving and Fluorine-Containing Biomineralization. Frontiers in Bioengineering and Biotechnology, 2020, 8, 341.	2.0	13
67	In Vitro and In Vivo Study of Amphotericin B Formulation with Quaternized Bioreducible Lipidoids. ACS Biomaterials Science and Engineering, 2020, 6, 1064-1073.	2.6	13
68	Synthetic and nature-derived lipid nanoparticles for neural regeneration. Neural Regeneration Research, 2015, 10, 689.	1.6	13
69	Combinatorial Library of Light-Cleavable Lipidoid Nanoparticles for Intracellular Drug Delivery. ACS Biomaterials Science and Engineering, 2019, 5, 2391-2398.	2.6	11
70	Imidazoleâ€Based Synthetic Lipidoids for Inâ€…Vivo mRNA Delivery into Primary T Lymphocytes. Angewandte Chemie, 2020, 132, 20258-20264.	1.6	8
71	A novel xenograft mouse model for testing approaches targeting human kappa light-chain diseases. Gene Therapy, 2019, 26, 187-197.	2.3	7
72	BIOINSPIRED FABRICATION OF NANOSTRUCTURES FROM TISSUE SLICES. World Scientific Series in Nanoscience and Nanotechnology, 2014, , 1-16.	0.1	5

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73	Lipidâ€“Saporin Nanoparticles for the Intracellular Delivery of Cytotoxic Protein to Overcome ABC Transporter-Mediated Multidrug Resistance In Vitro and In Vivo. Cancers, 2020, 12, 498.	1.7	5
74	Rescued from the fate of neurological disorder. Nature Biomedical Engineering, 2018, 2, 469-470.	11.6	4
75	Study the lipidoid nanoparticle mediated genome editing protein delivery using 3D intestinal tissue model. Bioactive Materials, 2021, 6, 3671-3677.	8.6	4
76	Hyperâ€Crosslinkers Lead to Temperatureâ€•and pHâ€Responsive Polymeric Nanogels with Unusual Volume Change. Angewandte Chemie, 2017, 129, 2667-2671.	1.6	3
77	Osteogenic effects of microRNA-335-5p/lipidoid nanoparticles coated on titanium surface. Archives of Oral Biology, 2021, 129, 105207.	0.8	3
78	Effective Lipidoid Nanoparticle Delivery In Vivo of siRNA Targeting Kappa Light Chain Production in a Murine Xenograft Model. Blood, 2018, 132, 3208-3208.	0.6	2
79	Nonviral gene editing in cancer immunotherapy. , 2022, , 257-272.		1
80	Tendon-derived sections for tissue engineering applications. , 2014, , .		0
81	Chemical Modification of Proteins and Their Intracellular Delivery Using Lipidoid Nanoparticles. Methods in Molecular Biology, 2022, 2394, 555-573.	0.4	0