

# Qiaobing Xu

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78  
papers

3,168  
citations

30  
h-index

55  
g-index

85  
ext. papers

4,105  
ext. citations

10.7  
avg, IF

5.64  
L-index

#	Paper	IF	Citations
78	Efficient delivery of genome-editing proteins using bioreducible lipid nanoparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 2868-73	11.5	367
77	Treatment of autosomal dominant hearing loss by in vivo delivery of genome editing agents. <i>Nature</i> , <b>2018</b> , 553, 217-221	50.4	286
76	Combinatorially designed lipid-like nanoparticles for intracellular delivery of cytotoxic protein for cancer therapy. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 2893-8	16.4	180
75	Reactive oxygen species-responsive protein modification and its intracellular delivery for targeted cancer therapy. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 13444-8	16.4	178
74	Engineering the Delivery System for CRISPR-Based Genome Editing. <i>Trends in Biotechnology</i> , <b>2018</b> , 36, 173-185	15.1	170
73	Fast and Efficient CRISPR/Cas9 Genome Editing In Vivo Enabled by Bioreducible Lipid and Messenger RNA Nanoparticles. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902575	24	140
72	A toolkit of thread-based microfluidics, sensors, and electronics for 3D tissue embedding for medical diagnostics. <i>Microsystems and Nanoengineering</i> , <b>2016</b> , 2, 16039	7.7	124
71	Janus Gold Nanoplatform for Synergetic Chemoradiotherapy and Computed Tomography Imaging of Hepatocellular Carcinoma. <i>ACS Nano</i> , <b>2017</b> , 11, 12732-12741	16.7	108
70	Neuronal Differentiation of Human Mesenchymal Stem Cells Using Exosomes Derived from Differentiating Neuronal Cells. <i>PLoS ONE</i> , <b>2015</b> , 10, e0135111	3.7	102
69	Enhanced intracellular siRNA delivery using bioreducible lipid-like nanoparticles. <i>Advanced Healthcare Materials</i> , <b>2014</b> , 3, 1398-403	10.1	66
68	Integrating Combinatorial Lipid Nanoparticle and Chemically Modified Protein for Intracellular Delivery and Genome Editing. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 665-675	24.3	64
67	Design and synthesis of novel sandwich-type C@TiO <sub>2</sub> @C hollow microspheres as efficient sulfur hosts for advanced lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 1630-1638	13	63
66	Combinatorial library of lipidoids for in vitro DNA delivery. <i>Bioconjugate Chemistry</i> , <b>2012</b> , 23, 135-40	6.3	59
65	Integrating Protein Engineering and Bioorthogonal Click Conjugation for Extracellular Vesicle Modulation and Intracellular Delivery. <i>PLoS ONE</i> , <b>2015</b> , 10, e0141860	3.7	54
64	Combinatorially Designed Lipid-like Nanoparticles for Intracellular Delivery of Cytotoxic Protein for Cancer Therapy. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 2937-2942	3.6	50
63	Intracellular delivery and biodistribution study of CRISPR/Cas9 ribonucleoprotein loaded bioreducible lipidoid nanoparticles. <i>Biomaterials Science</i> , <b>2019</b> , 7, 596-606	7.4	49
62	High Throughput Screening of Dynamic Silk-Elastin-Like Protein Biomaterials. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 4303-4310	15.6	49

61	Active Targeting of the Nucleus Using Nonpeptidic Boronate Tags. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 8547-8551	16.4	46
60	Combinatorial library of chalcogen-containing lipidoids for intracellular delivery of genome-editing proteins. <i>Biomaterials</i> , <b>2018</b> , 178, 652-662	15.6	45
59	Lipid nanoparticle-mediated codelivery of Cas9 mRNA and single-guide RNA achieves liver-specific in vivo genome editing of. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	42
58	Combinatorial library strategies for synthesis of cationic lipid-like nanoparticles and their potential medical applications. <i>Nanomedicine</i> , <b>2015</b> , 10, 643-57	5.6	41
57	A combinatorial library of unsaturated lipidoids for efficient intracellular gene delivery. <i>ACS Synthetic Biology</i> , <b>2012</b> , 1, 403-7	5.7	40
56	Nanoparticles for CRISPR-Cas9 delivery. <i>Nature Biomedical Engineering</i> , <b>2017</b> , 1, 854-855	19	39
55	Reactive Oxygen Species-Responsive Protein Modification and Its Intracellular Delivery for Targeted Cancer Therapy. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 13662-13666	3.6	38
54	Targeted delivery of immune therapeutics to lymph nodes prolongs cardiac allograft survival. <i>Journal of Clinical Investigation</i> , <b>2018</b> , 128, 4770-4786	15.9	38
53	Hyaluronic acid modification of RNase A and its intracellular delivery using lipid-like nanoparticles. <i>Journal of Controlled Release</i> , <b>2017</b> , 263, 39-45	11.7	37
52	Pericellular Hydrogel/Nanonets Inhibit Cancer Cells. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 8242-8245	3.6	36
51	A novel Lipidoid-MicroRNA formulation promotes calvarial bone regeneration. <i>Biomaterials</i> , <b>2018</b> , 177, 88-97	15.6	33
50	DOPE facilitates quaternized lipidoids (QLDs) for in vitro DNA delivery. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2013</b> , 9, 849-54	6	31
49	Biocompatibility and degradation of tendon-derived scaffolds. <i>International Journal of Energy Production and Management</i> , <b>2016</b> , 3, 1-11	5.3	30
48	All electronic approach for high-throughput cell trapping and lysis with electrical impedance monitoring. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 54, 462-7	11.8	27
47	The behavior of neuronal cells on tendon-derived collagen sheets as potential substrates for nerve regeneration. <i>Biomaterials</i> , <b>2014</b> , 35, 3551-7	15.6	25
46	Efficient Delivery of Antisense Oligonucleotides Using Bioreducible Lipid Nanoparticles In Vitro and In Vivo. <i>Molecular Therapy - Nucleic Acids</i> , <b>2020</b> , 19, 1357-1367	10.7	24
45	Ex vivo cell-based CRISPR/Cas9 genome editing for therapeutic applications. <i>Biomaterials</i> , <b>2020</b> , 234, 119711	15.6	24
44	Intracellular delivery of the PTEN protein using cationic lipidoids for cancer therapy. <i>Biomaterials Science</i> , <b>2016</b> , 4, 1773-1780	7.4	24

43	Neurotransmitter-derived lipidoids (NT-lipidoids) for enhanced brain delivery through intravenous injection. <i>Science Advances</i> , <b>2020</b> , 6, eabb4429	14.3	24
42	Nanostructured Tendon-Derived Scaffolds for Enhanced Bone Regeneration by Human Adipose-Derived Stem Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 22819-29	9.5	24
41	Protein and mRNA Delivery Enabled by Cholesteryl-Based Biodegradable Lipidoid Nanoparticles. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 14957-14964	16.4	23
40	3D Printing of Silk Protein Structures by Aqueous Solvent-Directed Molecular Assembly. <i>Macromolecular Bioscience</i> , <b>2020</b> , 20, e1900191	5.5	22
39	The NIH Somatic Cell Genome Editing program. <i>Nature</i> , <b>2021</b> , 592, 195-204	50.4	21
38	Intracellular Delivery of His-Tagged Genome-Editing Proteins Enabled by Nitrilotriacetic Acid-Containing Lipidoid Nanoparticles. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1800996	10.1	20
37	Imidazole-Based Synthetic Lipidoids for In Vivo mRNA Delivery into Primary T Lymphocytes. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 20083-20089	16.4	18
36	Hyper-Crosslinkers Lead to Temperature- and pH-Responsive Polymeric Nanogels with Unusual Volume Change. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 2623-2627	16.4	17
35	Triggered Release of Encapsulated Cargo from Photoresponsive Polyelectrolyte Nanocomplexes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 23517-22	9.5	16
34	Laminar Tendon Composites with Enhanced Mechanical Properties. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 2616-2625	4.3	16
33	Scaffold-mediated CRISPR-Cas9 delivery system for acute myeloid leukemia therapy. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	15
32	Chemically Engineered Nanoparticle-Protein Interface for Real-Time Cellular Oxidative Stress Monitoring. <i>Small</i> , <b>2016</b> , 12, 3775-9	11	15
31	Evaluation of an elastic decellularized tendon-derived scaffold for the vascular tissue engineering application. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2019</b> , 107, 1225-1234	5.4	13
30	Polymer Amphiphiles for Photoregulated Anticancer Drug Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 2814-2820	9.5	13
29	Nonviral Nanoparticles for CRISPR-Based Genome Editing: Is It Just a Simple Adaption of What Have Been Developed for Nucleic Acid Delivery?. <i>Biomacromolecules</i> , <b>2019</b> , 20, 3333-3339	6.9	12
28	Synthetic and nature-derived lipid nanoparticles for neural regeneration. <i>Neural Regeneration Research</i> , <b>2015</b> , 10, 689-90	4.5	11
27	In situ cancer vaccination using lipidoid nanoparticles. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	11
26	Synthetic bio-reducible lipid-based nanoparticles for miRNA delivery to mesenchymal stem cells to induce neuronal differentiation. <i>Bioengineering and Translational Medicine</i> , <b>2016</b> , 1, 160-167	14.8	11

25	Developing chemically modified redox-responsive proteins as smart therapeutics. <i>Chemical Communications</i> , <b>2019</b> , 55, 5163-5166	5.8	10
24	Developing Biodegradable Lipid Nanoparticles for Intracellular mRNA Delivery and Genome Editing. <i>Accounts of Chemical Research</i> , <b>2021</b> , 54, 4001-4011	24.3	10
23	In Vivo Peripheral Nerve Repair Using Tendon-Derived Nerve Guidance Conduits. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 937-945	5.5	10
22	Live-vaccinia virus encapsulation in pH-sensitive polymer increases safety of a reservoir-targeted Lyme disease vaccine by targeting gastrointestinal release. <i>Vaccine</i> , <b>2016</b> , 34, 4507-4513	4.1	10
21	Combinatorial Library of Light-Cleavable Lipidoid Nanoparticles for Intracellular Drug Delivery. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 2391-2398	5.5	9
20	and Study of Amphotericin B Formulation with Quaternized Bioreducible Lipidoids. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 1064-1073	5.5	9
19	Design of Silk-Elastin-Like Protein Nanoparticle Systems with Mucoadhesive Properties. <i>Journal of Functional Biomaterials</i> , <b>2019</b> , 10,	4.8	9
18	mRNA Delivery Using Bioreducible Lipidoid Nanoparticles Facilitates Neural Differentiation of Human Mesenchymal Stem Cells. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2000938	10.1	7
17	A novel xenograft mouse model for testing approaches targeting human kappa light-chain diseases. <i>Gene Therapy</i> , <b>2019</b> , 26, 187-197	4	6
16	The Construction of Biomimetic Cementum Through a Combination of Bioskiving and Fluorine-Containing Biomineralization. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 341	5.8	5
15	Protein and mRNA Delivery Enabled by Cholesteryl-Based Biodegradable Lipidoid Nanoparticles. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 15067-15074	3.6	5
14	BIOINSPIRED FABRICATION OF NANOSTRUCTURES FROM TISSUE SLICES. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , <b>2014</b> , 1-16	0.1	5
13	Enhanced protein degradation by intracellular delivery of pre-fused PROTACs using lipid-like nanoparticles. <i>Journal of Controlled Release</i> , <b>2021</b> , 330, 1244-1249	11.7	5
12	Combinatorial Library of Cyclic Benzylidene Acetal-Containing pH-Responsive Lipidoid Nanoparticles for Intracellular mRNA Delivery. <i>Bioconjugate Chemistry</i> , <b>2020</b> , 31, 1835-1843	6.3	4
11	Intracellular Antibody Delivery Mediated by Lipids, Polymers, and Inorganic Nanomaterials for Therapeutic Applications. <i>Advanced Therapeutics</i> , <b>2020</b> , 3, 2000178	4.9	4
10	Imidazole-Based Synthetic Lipidoids for In Vivo mRNA Delivery into Primary T Lymphocytes. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 20258-20264	3.6	4
9	Lipid-Saporin Nanoparticles for the Intracellular Delivery of Cytotoxic Protein to Overcome ABC Transporter-Mediated Multidrug Resistance In Vitro and In Vivo. <i>Cancers</i> , <b>2020</b> , 12,	6.6	3
8	Rescued from the fate of neurological disorder. <i>Nature Biomedical Engineering</i> , <b>2018</b> , 2, 469-470	19	3

7	Hyper-Crosslinkers Lead to Temperature- and pH-Responsive Polymeric Nanogels with Unusual Volume Change. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 2667-2671	3.6	1
6	CRISPR/Cas9 Ribonucleoprotein-Mediated Genome and Epigenome Editing in Mammalian Cells.. <i>Advanced Drug Delivery Reviews</i> , <b>2021</b> , 114087	18.5	1
5	Effective Lipidoid Nanoparticle Delivery In Vivo of siRNA Targeting Kappa Light Chain Production in a Murine Xenograft Model. <i>Blood</i> , <b>2018</b> , 132, 3208-3208	2.2	1
4	Study the lipidoid nanoparticle mediated genome editing protein delivery using 3D intestinal tissue model. <i>Bioactive Materials</i> , <b>2021</b> , 6, 3671-3677	16.7	1
3	Osteogenic effects of microRNA-335-5p/lipidoid nanoparticles coated on titanium surface. <i>Archives of Oral Biology</i> , <b>2021</b> , 129, 105207	2.8	0
2	Nonviral gene editing in cancer immunotherapy <b>2022</b> , 257-272		0
1	Chemical Modification of Proteins and Their Intracellular Delivery Using Lipidoid Nanoparticles.. <i>Methods in Molecular Biology</i> , <b>2022</b> , 2394, 555-573	1.4	