

Ronnie H Fang

List of Publications by Year in descending order

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88
papers

16,167
citations

28274

55
h-index

49909

87
g-index

89
all docs

89
docs citations

89
times ranked

10389
citing authors

#	ARTICLE	IF	CITATIONS
1	Erythrocyte membrane-camouflaged polymeric nanoparticles as a biomimetic delivery platform. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10980-10985.	7.1	1,749
2	Nanoparticle biointerfacing by platelet membrane cloaking. Nature, 2015, 526, 118-121.	27.8	1,270
3	Cell Membrane Coating Nanotechnology. Advanced Materials, 2018, 30, e1706759.	21.0	1,100
4	Cancer Cell Membrane-Coated Nanoparticles for Anticancer Vaccination and Drug Delivery. Nano Letters, 2014, 14, 2181-2188.	9.1	1,091
5	A biomimetic nanosponge that absorbs pore-forming toxins. Nature Nanotechnology, 2013, 8, 336-340.	31.5	608
6	Neutrophil membrane-coated nanoparticles inhibit synovial inflammation and alleviate joint damage in inflammatory arthritis. Nature Nanotechnology, 2018, 13, 1182-1190.	31.5	600
7	Erythrocyte-Platelet Hybrid Membrane Coating for Enhanced Nanoparticle Functionalization. Advanced Materials, 2017, 29, 1606209.	21.0	507
8	Nanoparticulate Delivery of Cancer Cell Membrane Elicits Multiantigenic Antitumor Immunity. Advanced Materials, 2017, 29, 1703969.	21.0	392
9	Modulating Antibacterial Immunity via Bacterial Membrane-Coated Nanoparticles. Nano Letters, 2015, 15, 1403-1409.	9.1	382
10	Surface Functionalization of Gold Nanoparticles with Red Blood Cell Membranes. Advanced Materials, 2013, 25, 3549-3553.	21.0	374
11	Macrophage-like nanoparticles concurrently absorbing endotoxins and proinflammatory cytokines for sepsis management. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11488-11493.	7.1	364
12	Cell membrane-derived nanomaterials for biomedical applications. Biomaterials, 2017, 128, 69-83.	11.4	343
13	Interfacial interactions between natural RBC membranes and synthetic polymeric nanoparticles. Nanoscale, 2014, 6, 2730-2737.	5.6	291
14	Nanoparticle-detained toxins for safe and effective vaccination. Nature Nanotechnology, 2013, 8, 933-938.	31.5	287
15	Biointerfacing and Applications of Cell Membrane-Coated Nanoparticles. Bioconjugate Chemistry, 2017, 28, 23-32.	3.6	267
16	Cellular Nanosponges Inhibit SARS-CoV-2 Infectivity. Nano Letters, 2020, 20, 5570-5574.	9.1	262
17	Marker-of-self™ functionalization of nanoscale particles through a top-down cellular membrane coating approach. Nanoscale, 2013, 5, 2664.	5.6	253
18	Erythrocyte-Inspired Delivery Systems. Advanced Healthcare Materials, 2012, 1, 537-547.	7.6	237

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19	Enzyme-powered Janus platelet cell robots for active and targeted drug delivery. <i>Science Robotics</i> , 2020, 5, .	17.6	236
20	Lipid-insertion enables targeting functionalization of erythrocyte membrane-cloaked nanoparticles. <i>Nanoscale</i> , 2013, 5, 8884.	5.6	231
21	Clearance of pathological antibodies using biomimetic nanoparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13481-13486.	7.1	231
22	Nanoparticle Functionalization with Platelet Membrane Enables Multifactorial Biological Targeting and Detection of Atherosclerosis. <i>ACS Nano</i> , 2018, 12, 109-116.	14.6	222
23	Targeted gene silencing in vivo by platelet membrane-coated metal-organic framework nanoparticles. <i>Science Advances</i> , 2020, 6, eaaz6108.	10.3	208
24	Engineered Cell-Membrane-Coated Nanoparticles Directly Present Tumor Antigens to Promote Anticancer Immunity. <i>Advanced Materials</i> , 2020, 32, e2001808.	21.0	206
25	Biomimetic Nanotechnology toward Personalized Vaccines. <i>Advanced Materials</i> , 2020, 32, e1901255.	21.0	200
26	Biomembrane-Modified Field Effect Transistors for Sensitive and Quantitative Detection of Biological Toxins and Pathogens. <i>ACS Nano</i> , 2019, 13, 3714-3722.	14.6	197
27	Safe and Immunocompatible Nanocarriers Cloaked in RBC Membranes for Drug Delivery to Treat Solid Tumors. <i>Theranostics</i> , 2016, 6, 1004-1011.	10.0	185
28	Polymeric nanotherapeutics: clinical development and advances in stealth functionalization strategies. <i>Nanoscale</i> , 2014, 6, 65-75.	5.6	167
29	Erythrocyte membrane-cloaked polymeric nanoparticles for controlled drug loading and release. <i>Nanomedicine</i> , 2013, 8, 1271-1280.	3.3	166
30	Biomimetic Micromotor Enables Active Delivery of Antigens for Oral Vaccination. <i>Nano Letters</i> , 2019, 19, 1914-1921.	9.1	152
31	Nanoparticles camouflaged in platelet membrane coating as an antibody decoy for the treatment of immune thrombocytopenia. <i>Biomaterials</i> , 2016, 111, 116-123.	11.4	151
32	Cell-Mimicking Nanoparticles Can Neutralize HIV Infectivity. <i>Advanced Materials</i> , 2018, 30, e1802233.	21.0	149
33	Intratumoral immunotherapy using platelet-cloaked nanoparticles enhances antitumor immunity in solid tumors. <i>Nature Communications</i> , 2021, 12, 1999.	12.8	140
34	Erythrocyte membrane-coated nanogel for combinatorial antivirulence and responsive antimicrobial delivery against <i>Staphylococcus aureus</i> infection. <i>Journal of Controlled Release</i> , 2017, 263, 185-191.	9.9	136
35	Detoxification of Organophosphate Poisoning Using Nanoparticle Bioscavengers. <i>ACS Nano</i> , 2015, 9, 6450-6458.	14.6	134
36	Biomimetic strategies for targeted nanoparticle delivery. <i>Bioengineering and Translational Medicine</i> , 2016, 1, 30-46.	7.1	122

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37	Nanoparticle-based hydrogel superstructures for biomedical applications. <i>Journal of Controlled Release</i> , 2020, 324, 505-521.	9.9	117
38	Hydrogel Retaining Toxin-Absorbing Nanosponges for Local Treatment of Methicillin-Resistant <i>Staphylococcus aureus</i> Infection. <i>Advanced Materials</i> , 2015, 27, 3437-3443.	21.0	114
39	Inhibition of Pathogen Adhesion by Bacterial Outer Membrane-Coated Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11404-11408.	13.8	114
40	Coating Nanoparticles with Gastric Epithelial Cell Membrane for Targeted Antibiotic Delivery against <i>Helicobacter pylori</i> Infection. <i>Advanced Therapeutics</i> , 2018, 1, 1800016.	3.2	110
41	Engineered nanoparticles mimicking cell membranes for toxin neutralization. <i>Advanced Drug Delivery Reviews</i> , 2015, 90, 69-80.	13.7	109
42	Genetically engineered cell membrane-coated nanoparticles for targeted delivery of dexamethasone to inflamed lungs. <i>Science Advances</i> , 2021, 7, .	10.3	107
43	Nanoparticle-Based Manipulation of Antigen-Presenting Cells for Cancer Immunotherapy. <i>Small</i> , 2015, 11, 5483-5496.	10.0	103
44	In Situ Capture of Bacterial Toxins for Antivirulence Vaccination. <i>Advanced Materials</i> , 2017, 29, 1701644.	21.0	94
45	Nanoparticle-Based Antivirulence Vaccine for the Management of Methicillin-Resistant <i>Staphylococcus aureus</i> Skin Infection. <i>Advanced Functional Materials</i> , 2016, 26, 1628-1635.	14.9	91
46	Multimodal Enzyme Delivery and Therapy Enabled by Cell Membrane-Coated Metal-Organic Framework Nanoparticles. <i>Nano Letters</i> , 2020, 20, 4051-4058.	9.1	89
47	Broad-Spectrum Neutralization of Pore-Forming Toxins with Human Erythrocyte Membrane-Coated Nanosponges. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701366.	7.6	87
48	Biomimetic Nanoparticle Vaccines for Cancer Therapy. <i>Advanced Biology</i> , 2019, 3, e1800219.	3.0	84
49	Biomimetic nanoparticle technology for cardiovascular disease detection and treatment. <i>Nanoscale Horizons</i> , 2020, 5, 25-42.	8.0	80
50	Nanoparticle-Based Modulation of the Immune System. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2016, 7, 305-326.	6.8	75
51	Cell-Membrane-Cloaked Oil Nanosponges Enable Dual-Modal Detoxification. <i>ACS Nano</i> , 2019, 13, 7209-7215.	14.6	69
52	Synthesis of Nanogels via Cell Membrane-Templated Polymerization. <i>Small</i> , 2015, 11, 4309-4313.	10.0	63
53	Coating nanofiber scaffolds with beta cell membrane to promote cell proliferation and function. <i>Nanoscale</i> , 2016, 8, 10364-10370.	5.6	63
54	Multiantigenic Nanotoxoids for Antivirulence Vaccination against Antibiotic-Resistant Gram-Negative Bacteria. <i>Nano Letters</i> , 2019, 19, 4760-4769.	9.1	63

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55	Virus-Mimicking Cell Membrane-Coated Nanoparticles for Cytosolic Delivery of mRNA. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	62
56	Self-Assembled Colloidal Gel Using Cell Membrane-Coated Nanosponges as Building Blocks. <i>ACS Nano</i> , 2017, 11, 11923-11930.	14.6	59
57	Nanoparticle Delivery of Immunostimulatory Agents for Cancer Immunotherapy. <i>Theranostics</i> , 2019, 9, 7826-7848.	10.0	59
58	Nanotechnology for virus treatment. <i>Nano Today</i> , 2021, 36, 101031.	11.9	58
59	Biomimetic Nanosponges Suppress In Vivo Lethality Induced by the Whole Secreted Proteins of Pathogenic Bacteria. <i>Small</i> , 2019, 15, e1804994.	10.0	53
60	Toxoid Vaccination against Bacterial Infection Using Cell Membrane-Coated Nanoparticles. <i>Bioconjugate Chemistry</i> , 2018, 29, 604-612.	3.6	46
61	Surface Glycan Modification of Cellular Nanosponges to Promote SARS-CoV-2 Inhibition. <i>Journal of the American Chemical Society</i> , 2021, 143, 17615-17621.	13.7	46
62	Engineering of stimuli-responsive self-assembled biomimetic nanoparticles. <i>Advanced Drug Delivery Reviews</i> , 2021, 179, 114006.	13.7	39
63	Physical Disruption of Solid Tumors by Immunostimulatory Microrobots Enhances Antitumor Immunity. <i>Advanced Materials</i> , 2021, 33, e2103505.	21.0	38
64	Bacterial membrane vesicles for vaccine applications. <i>Advanced Drug Delivery Reviews</i> , 2022, 185, 114294.	13.7	38
65	Bacteria-Inspired Nanomedicine. <i>ACS Applied Bio Materials</i> , 2021, 4, 3830-3848.	4.6	37
66	Nanomaterial Biointerfacing via Mitochondrial Membrane Coating for Targeted Detoxification and Molecular Detection. <i>Nano Letters</i> , 2021, 21, 2603-2609.	9.1	37
67	Selective cell death of latently HIV-infected CD4+ T cells mediated by autosis inducing nanopeptides. <i>Cell Death and Disease</i> , 2019, 10, 419.	6.3	36
68	Lure-and-kill macrophage nanoparticles alleviate the severity of experimental acute pancreatitis. <i>Nature Communications</i> , 2021, 12, 4136.	12.8	32
69	Biomimetic Virulomics for Capture and Identification of Cell-Type Specific Effector Proteins. <i>ACS Nano</i> , 2017, 11, 11831-11838.	14.6	27
70	Preparation of Particulate Polymeric Therapeutics for Medical Applications. <i>Small Methods</i> , 2017, 1, 1700147.	8.6	27
71	A Biomimetic Nanoparticle to Lure and Kill Phospholipase A2. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10461-10465.	13.8	26
72	Zinc Microrocket Pills: Fabrication and Characterization toward Active Oral Delivery. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000900.	7.6	25

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73	Biomimetic Targeting of Nanoparticles to Immune Cell Subsets via Cognate Antigen Interactions. <i>Molecular Pharmaceutics</i> , 2018, 15, 3723-3728.	4.6	23
74	<scp>Cartilageâ€targeting ultrasmall lipidâ€polymer</scp> hybrid nanoparticles for the prevention of cartilage degradation. <i>Bioengineering and Translational Medicine</i> , 2021, 6, e10187.	7.1	22
75	Engineering biological interactions on the nanoscale. <i>Current Opinion in Biotechnology</i> , 2019, 58, 1-8.	6.6	21
76	Nanodelivery of STING agonists against cancer and infectious diseases. <i>Molecular Aspects of Medicine</i> , 2022, 83, 101007.	6.4	15
77	Membrane Cholesterol Depletion Enhances Enzymatic Activity of Cellâ€Membraneâ€Coated Metalâ€Organicâ€Framework Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	15
78	Biomimetic Nanosponges for Treating Antibody-Mediated Autoimmune Diseases. <i>Bioconjugate Chemistry</i> , 2018, 29, 870-877.	3.6	12
79	Dispersion-Based Methods for the Engineering and Manufacture of Polymeric Nanoparticles for Drug Delivery Applications. <i>Journal of Nanoengineering and Nanomanufacturing</i> , 2011, 1, 106-112.	0.3	12
80	Virusâ€Mimicking Cell Membraneâ€Coated Nanoparticles for Cytosolic Delivery of mRNA. <i>Angewandte Chemie</i> , 0, , .	2.0	12
81	CD4+ T cell-mimicking nanoparticles encapsulating DIABLO/SMAC mimetics broadly neutralize HIV-1 and selectively kill HIV-1-infected cells. <i>Theranostics</i> , 2021, 11, 9009-9021.	10.0	10
82	Nanotoxoids: Biomimetic Nanoparticle Vaccines against Infections. <i>Advanced Therapeutics</i> , 2021, 4, 2100072.	3.2	10
83	Codelivery of Antigens and Adjuvant in Polymeric Nanoparticles Coated With Native Parasite Membranes Induces Protective Mucosal Immunity Against <i>Giardia lamblia</i>. <i>Journal of Infectious Diseases</i> , 2022, 226, 319-323.	4.0	8
84	Organotropic Targeting of Biomimetic Nanoparticles to Treat Lung Disease. <i>Bioconjugate Chemistry</i> , 2022, 33, 586-593.	3.6	7
85	A Biomimetic Nanoparticle to â€Lure and Killâ€Phospholipaseâ€...A2. <i>Angewandte Chemie</i> , 2020, 132, 10547-10551.	2.0	6
86	Inhibition of Pathogen Adhesion by Bacterial Outer Membraneâ€Coated Nanoparticles. <i>Angewandte Chemie</i> , 2019, 131, 11526-11530.	2.0	4
87	Membrane Cholesterol Depletion Enhances Enzymatic Activity of Cellâ€Membraneâ€Coated Metalâ€Organicâ€Framework Nanoparticles. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	2
88	Titelbild: Membrane Cholesterol Depletion Enhances Enzymatic Activity of Cellâ€Membraneâ€Coated Metalâ€Organicâ€Framework Nanoparticles (<i>Angew. Chem.</i> 24/2022). <i>Angewandte Chemie</i> , 2022, 134, .	2.0	0