

Ronnie H Fang

List of Publications by Year in descending order

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Version: 2024-02-01

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	Nanodelivery of STING agonists against cancer and infectious diseases. <i>Molecular Aspects of Medicine</i> , 2022, 83, 101007.	6.4	15
2	Virus-mimicking Cell Membrane-coated Nanoparticles for Cytosolic Delivery of mRNA. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	62
3	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
4	Organotropic Targeting of Biomimetic Nanoparticles to Treat Lung Disease. <i>Bioconjugate Chemistry</i> , 2022, 33, 586-593.	3.6	7
5	Membrane Cholesterol Depletion Enhances Enzymatic Activity of Cell-membrane-coated Metal-organic Framework Nanoparticles. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	2
6	Bacterial membrane vesicles for vaccine applications. <i>Advanced Drug Delivery Reviews</i> , 2022, 185, 114294.	13.7	38
7	Membrane Cholesterol Depletion Enhances Enzymatic Activity of Cell-membrane-coated Metal-organic Framework Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	15
8	Titelbild: Membrane Cholesterol Depletion Enhances Enzymatic Activity of Cell-membrane-coated Metal-organic Framework Nanoparticles (<i>Angew. Chem.</i> 24/2022). <i>Angewandte Chemie</i> , 2022, 134, .	2.0	0
9	Bacteria-Inspired Nanomedicine. <i>ACS Applied Bio Materials</i> , 2021, 4, 3830-3848.	4.6	37
10	Nanotechnology for virus treatment. <i>Nano Today</i> , 2021, 36, 101031.	11.9	58
11	Cartilage-targeting ultrasmall lipid-polymer hybrid nanoparticles for the prevention of cartilage degradation. <i>Bioengineering and Translational Medicine</i> , 2021, 6, e10187.	7.1	22
12	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
13	Intratumoral immunotherapy using platelet-cloaked nanoparticles enhances antitumor immunity in solid tumors. <i>Nature Communications</i> , 2021, 12, 1999.	12.8	140
14	Nanomaterial Biointerfacing via Mitochondrial Membrane Coating for Targeted Detoxification and Molecular Detection. <i>Nano Letters</i> , 2021, 21, 2603-2609.	9.1	37
15	Nanotoxoids: Biomimetic Nanoparticle Vaccines against Infections. <i>Advanced Therapeutics</i> , 2021, 4, 2100072.	3.2	10
16	Genetically engineered cell membrane-coated nanoparticles for targeted delivery of dexamethasone to inflamed lungs. <i>Science Advances</i> , 2021, 7, .	10.3	107
17	Lure-and-kill macrophage nanoparticles alleviate the severity of experimental acute pancreatitis. <i>Nature Communications</i> , 2021, 12, 4136.	12.8	32
18	Physical Disruption of Solid Tumors by Immunostimulatory Microrobots Enhances Antitumor Immunity. <i>Advanced Materials</i> , 2021, 33, e2103505.	21.0	38

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19	Surface Glycan Modification of Cellular Nanosponges to Promote SARS-CoV-2 Inhibition. Journal of the American Chemical Society, 2021, 143, 17615-17621.	13.7	46
20	Engineering of stimuli-responsive self-assembled biomimetic nanoparticles. Advanced Drug Delivery Reviews, 2021, 179, 114006.	13.7	39
21	Biomimetic Nanotechnology toward Personalized Vaccines. Advanced Materials, 2020, 32, e1901255.	21.0	200
22	Biomimetic nanoparticle technology for cardiovascular disease detection and treatment. Nanoscale Horizons, 2020, 5, 25-42.	8.0	80
23	Zinc Microrocket Pills: Fabrication and Characterization toward Active Oral Delivery. Advanced Healthcare Materials, 2020, 9, e2000900.	7.6	25
24	Nanoparticle-hydrogel superstructures for biomedical applications. Journal of Controlled Release, 2020, 324, 505-521.	9.9	117
25	Enzyme-powered Janus platelet cell robots for active and targeted drug delivery. Science Robotics, 2020, 5, .	17.6	236
26	Engineered Cell-Membrane-Coated Nanoparticles Directly Present Tumor Antigens to Promote Anticancer Immunity. Advanced Materials, 2020, 32, e2001808.	21.0	206
27	Cellular Nanosponges Inhibit SARS-CoV-2 Infectivity. Nano Letters, 2020, 20, 5570-5574.	9.1	262
28	A Biomimetic Nanoparticle to Lure and Kill Phospholipase A2. Angewandte Chemie - International Edition, 2020, 59, 10461-10465.	13.8	26
29	Targeted gene silencing in vivo by platelet membrane-coated metal-organic framework nanoparticles. Science Advances, 2020, 6, eaaz6108.	10.3	208
30	Multimodal Enzyme Delivery and Therapy Enabled by Cell Membrane-Coated Metal-Organic Framework Nanoparticles. Nano Letters, 2020, 20, 4051-4058.	9.1	89
31	A Biomimetic Nanoparticle to Lure and Kill Phospholipase A2. Angewandte Chemie, 2020, 132, 10547-10551.	2.0	6
32	Nanoparticle Delivery of Immunostimulatory Agents for Cancer Immunotherapy. Theranostics, 2019, 9, 7826-7848.	10.0	59
33	Cell-Membrane-Cloaked Oil Nanosponges Enable Dual-Modal Detoxification. ACS Nano, 2019, 13, 7209-7215.	14.6	69
34	Inhibition of Pathogen Adhesion by Bacterial Outer Membrane-Coated Nanoparticles. Angewandte Chemie - International Edition, 2019, 58, 11404-11408.	13.8	114
35	Inhibition of Pathogen Adhesion by Bacterial Outer Membrane-Coated Nanoparticles. Angewandte Chemie, 2019, 131, 11526-11530.	2.0	4
36	Multiantigenic Nanotoxoids for Antivirulence Vaccination against Antibiotic-Resistant Gram-Negative Bacteria. Nano Letters, 2019, 19, 4760-4769.	9.1	63

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37	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
38	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
39	Biomimetic Micromotor Enables Active Delivery of Antigens for Oral Vaccination. <i>Nano Letters</i> , 2019, 19, 1914-1921.	9.1	152
40	Engineering biological interactions on the nanoscale. <i>Current Opinion in Biotechnology</i> , 2019, 58, 1-8.	6.6	21
41	Biomimetic Nanoparticle Vaccines for Cancer Therapy. <i>Advanced Biology</i> , 2019, 3, e1800219.	3.0	84
42	Biomimetic Nanosponges Suppress In Vivo Lethality Induced by the Whole Secreted Proteins of Pathogenic Bacteria. <i>Small</i> , 2019, 15, e1804994.	10.0	53
43	Cell Membrane Coating Nanotechnology. <i>Advanced Materials</i> , 2018, 30, e1706759.	21.0	1,100
44	Broad Spectrum Neutralization of Pore-Forming Toxins with Human Erythrocyte Membrane-Coated Nanosponges. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701366.	7.6	87
45	Biomimetic Nanosponges for Treating Antibody-Mediated Autoimmune Diseases. <i>Bioconjugate Chemistry</i> , 2018, 29, 870-877.	3.6	12
46	Biomimetic Targeting of Nanoparticles to Immune Cell Subsets via Cognate Antigen Interactions. <i>Molecular Pharmaceutics</i> , 2018, 15, 3723-3728.	4.6	23
47	Toxoid Vaccination against Bacterial Infection Using Cell Membrane-Coated Nanoparticles. <i>Bioconjugate Chemistry</i> , 2018, 29, 604-612.	3.6	46
48	Nanoparticle Functionalization with Platelet Membrane Enables Multifactorial Biological Targeting and Detection of Atherosclerosis. <i>ACS Nano</i> , 2018, 12, 109-116.	14.6	222
49	Cell-Mimicking Nanoparticles Can Neutralize HIV Infectivity. <i>Advanced Materials</i> , 2018, 30, e1802233.	21.0	149
50	Neutrophil membrane-coated nanoparticles inhibit synovial inflammation and alleviate joint damage in inflammatory arthritis. <i>Nature Nanotechnology</i> , 2018, 13, 1182-1190.	31.5	600
51	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
52	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
53	Cell membrane-derived nanomaterials for biomedical applications. <i>Biomaterials</i> , 2017, 128, 69-83.	11.4	343
54	Erythrocyte-Platelet Hybrid Membrane Coating for Enhanced Nanoparticle Functionalization. <i>Advanced Materials</i> , 2017, 29, 1606209.	21.0	507

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55	Nanoparticulate Delivery of Cancer Cell Membrane Elicits Multiantigenic Antitumor Immunity. <i>Advanced Materials</i> , 2017, 29, 1703969.	21.0	392
56	Macrophage-like nanoparticles concurrently absorbing endotoxins and proinflammatory cytokines for sepsis management. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11488-11493.	7.1	364
57	Biomimetic Virulomics for Capture and Identification of Cell-Type Specific Effector Proteins. <i>ACS Nano</i> , 2017, 11, 11831-11838.	14.6	27
58	Preparation of Particulate Polymeric Therapeutics for Medical Applications. <i>Small Methods</i> , 2017, 1, 1700147.	8.6	27
59	Self-Assembled Colloidal Gel Using Cell Membrane-Coated Nanosponges as Building Blocks. <i>ACS Nano</i> , 2017, 11, 11923-11930.	14.6	59
60	In Situ Capture of Bacterial Toxins for Antivirulence Vaccination. <i>Advanced Materials</i> , 2017, 29, 1701644.	21.0	94
61	Biointerfacing and Applications of Cell Membrane-Coated Nanoparticles. <i>Bioconjugate Chemistry</i> , 2017, 28, 23-32.	3.6	267
62	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
63	Coating nanofiber scaffolds with beta cell membrane to promote cell proliferation and function. <i>Nanoscale</i> , 2016, 8, 10364-10370.	5.6	63
64	Nanoparticle-Based Modulation of the Immune System. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2016, 7, 305-326.	6.8	75
65	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
66	Biomimetic strategies for targeted nanoparticle delivery. <i>Bioengineering and Translational Medicine</i> , 2016, 1, 30-46.	7.1	122
67	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
68	Synthesis of Nanogels via Cell Membrane-Templated Polymerization. <i>Small</i> , 2015, 11, 4309-4313.	10.0	63
69	Nanoparticle-Based Manipulation of Antigen-Presenting Cells for Cancer Immunotherapy. <i>Small</i> , 2015, 11, 5483-5496.	10.0	103
70	Detoxification of Organophosphate Poisoning Using Nanoparticle Bioscavengers. <i>ACS Nano</i> , 2015, 9, 6450-6458.	14.6	134
71	Modulating Antibacterial Immunity via Bacterial Membrane-Coated Nanoparticles. <i>Nano Letters</i> , 2015, 15, 1403-1409.	9.1	382
72	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

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73	Engineered nanoparticles mimicking cell membranes for toxin neutralization. <i>Advanced Drug Delivery Reviews</i> , 2015, 90, 69-80.	13.7	109
74	Nanoparticle biointerfacing by platelet membrane cloaking. <i>Nature</i> , 2015, 526, 118-121.	27.8	1,270
75	Polymeric nanotherapeutics: clinical development and advances in stealth functionalization strategies. <i>Nanoscale</i> , 2014, 6, 65-75.	5.6	167
76	Interfacial interactions between natural RBC membranes and synthetic polymeric nanoparticles. <i>Nanoscale</i> , 2014, 6, 2730-2737.	5.6	291
77	Cancer Cell Membrane-Coated Nanoparticles for Anticancer Vaccination and Drug Delivery. <i>Nano Letters</i> , 2014, 14, 2181-2188.	9.1	1,091
78	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
79	Nanoparticle-detained toxins for safe and effective vaccination. <i>Nature Nanotechnology</i> , 2013, 8, 933-938.	31.5	287
80	Lipid-insertion enables targeting functionalization of erythrocyte membrane-cloaked nanoparticles. <i>Nanoscale</i> , 2013, 5, 8884.	5.6	231
81	“Marker-of-self”™ functionalization of nanoscale particles through a top-down cellular membrane coating approach. <i>Nanoscale</i> , 2013, 5, 2664.	5.6	253
82	A biomimetic nanosponge that absorbs pore-forming toxins. <i>Nature Nanotechnology</i> , 2013, 8, 336-340.	31.5	608
83	Erythrocyte membrane-cloaked polymeric nanoparticles for controlled drug loading and release. <i>Nanomedicine</i> , 2013, 8, 1271-1280.	3.3	166
84	Surface Functionalization of Gold Nanoparticles with Red Blood Cell Membranes. <i>Advanced Materials</i> , 2013, 25, 3549-3553.	21.0	374
85	Erythrocyte-Inspired Delivery Systems. <i>Advanced Healthcare Materials</i> , 2012, 1, 537-547.	7.6	237
86	Erythrocyte membrane-camouflaged polymeric nanoparticles as a biomimetic delivery platform. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10980-10985.	7.1	1,749
87	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
88	Virus-Mimicking Cell Membrane-Coated Nanoparticles for Cytosolic Delivery of mRNA. <i>Angewandte Chemie</i> , 0, , .	2.0	12