

Nicholas O Fischer

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,443
citations

236925

25
h-index

206112

48
g-index

60
all docs

60
docs citations

60
times ranked

3626
citing authors

#	ARTICLE	IF	CITATIONS
1	Control of Protein Structure and Function through Surface Recognition by Tailored Nanoparticle Scaffolds. <i>Journal of the American Chemical Society</i> , 2004, 126, 739-743.	13.7	273
2	Surface PEGylation and Ligand Exchange Chemistry of FePt Nanoparticles for Biological Applications. <i>Chemistry of Materials</i> , 2005, 17, 4617-4621.	6.7	215
3	Inhibition of chymotrypsin through surface binding using nanoparticle-based receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 5018-5023.	7.1	187
4	Protein-passivated Fe ₃ O ₄ nanoparticles: low toxicity and rapid heating for thermal therapy. <i>Journal of Materials Chemistry</i> , 2008, 18, 1204.	6.7	167
5	Tissue-specific extracellular matrix accelerates the formation of neural networks and communities in a neuron-glia co-culture on a multi-electrode array. <i>Scientific Reports</i> , 2019, 9, 4159.	3.3	119
6	A flexible 3-dimensional microelectrode array for <i>in vitro</i> brain models. <i>Lab on A Chip</i> , 2020, 20, 901-911.	6.0	111
7	Reversible α -Inhibition of Chymotrypsin Using Nanoparticle Receptors. <i>Journal of the American Chemical Society</i> , 2003, 125, 13387-13391.	13.7	100
8	Colocalized Delivery of Adjuvant and Antigen Using Nanolipoprotein Particles Enhances the Immune Response to Recombinant Antigens. <i>Journal of the American Chemical Society</i> , 2013, 135, 2044-2047.	13.7	80
9	Protein detection via direct enzymatic amplification of short DNA aptamers. <i>Analytical Biochemistry</i> , 2008, 373, 121-128.	2.4	75
10	Single microbead SELEX for efficient ssDNA aptamer generation against botulinum neurotoxin. <i>Chemical Communications</i> , 2008, , 1883.	4.1	75
11	Surface Modification Using Cubic Silsesquioxane Ligands. Facile Synthesis of Water-Soluble Metal Oxide Nanoparticles. <i>Chemistry of Materials</i> , 2006, 18, 956-959.	6.7	64
12	Aptasensors for biosecurity applications. <i>Current Opinion in Chemical Biology</i> , 2007, 11, 316-328.	6.1	55
13	Conjugation to Nickel-Chelating Nanolipoprotein Particles Increases the Potency and Efficacy of Subunit Vaccines to Prevent West Nile Encephalitis. <i>Bioconjugate Chemistry</i> , 2010, 21, 1018-1022.	3.6	46
14	Massively Parallel Interrogation of Aptamer Sequence, Structure and Function. <i>PLoS ONE</i> , 2008, 3, e2720.	2.5	45
15	Highly Efficient Biocatalysts via Covalent Immobilization of <i>Candida rugosa</i> Lipase on Ethylene Glycol-Modified Gold-Silica Nanocomposites. <i>Advanced Materials</i> , 2004, 16, 271-274.	21.0	44
16	Hydrogen Production by a Hyperthermophilic Membrane-Bound Hydrogenase in Water-Soluble Nanolipoprotein Particles. <i>Journal of the American Chemical Society</i> , 2009, 131, 7508-7509.	13.7	43
17	Immobilization of His-Tagged Proteins on Nickel-Chelating Nanolipoprotein Particles. <i>Bioconjugate Chemistry</i> , 2009, 20, 460-465.	3.6	42
18	Evaluation of Nanolipoprotein Particles (NLPs) as an In Vivo Delivery Platform. <i>PLoS ONE</i> , 2014, 9, e93342.	2.5	42

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19	Enhanced Cellulose Degradation Using Cellulase-Nanosphere Complexes. <i>PLoS ONE</i> , 2012, 7, e42116.	2.5	42
20	Controlled placement of multiple CNS cell populations to create complex neuronal cultures. <i>PLoS ONE</i> , 2017, 12, e0188146.	2.5	35
21	The use of nanolipoprotein particles to enhance the immunostimulatory properties of innate immune agonists against lethal influenza challenge. <i>Biomaterials</i> , 2013, 34, 10305-10318.	11.4	33
22	Optimizing cell encapsulation condition in ECM-Collagen I hydrogels to support 3D neuronal cultures. <i>Journal of Neuroscience Methods</i> , 2020, 329, 108460.	2.5	32
23	Evaluation of in vitro neuronal platforms as surrogates for in vivo whole brain systems. <i>Scientific Reports</i> , 2018, 8, 10820.	3.3	31
24	A Reconfigurable In Vitro Model for Studying the Blood-Brain Barrier. <i>Annals of Biomedical Engineering</i> , 2020, 48, 780-793.	2.5	31
25	Kinetic Analysis of His-Tagged Protein Binding to Nickel-Chelating Nanolipoprotein Particles. <i>Bioconjugate Chemistry</i> , 2010, 21, 1321-1330.	3.6	29
26	Cell-free production of a functional oligomeric form of a Chlamydia major outer-membrane protein (MOMP) for vaccine development. <i>Journal of Biological Chemistry</i> , 2017, 292, 15121-15132.	3.4	28
27	Functional and transcriptional characterization of complex neuronal co-cultures. <i>Scientific Reports</i> , 2020, 10, 11007.	3.3	27
28	Biofunctional Subwavelength Optical Waveguides for Biodetection. <i>ACS Nano</i> , 2008, 2, 255-262.	14.6	25
29	HSV-2 disrupts gap junctional intercellular communication between mammalian cells in vitro. <i>Journal of Virological Methods</i> , 2001, 91, 157-166.	2.1	24
30	Heightened sense for sensing: recent advances in pathogen immunoassay sensing platforms. <i>Analyst, The</i> , 2007, 132, 187.	3.5	22
31	Sensitive and selective viral DNA detection assay via microbead-based rolling circle amplification. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 5871-5874.	2.2	22
32	Fluorescence Correlation Spectroscopy at Micromolar Concentrations without Optical Nanoconfinement. <i>Journal of Physical Chemistry B</i> , 2014, 118, 9662-9667.	2.6	22
33	Long-term non-invasive interrogation of human dorsal root ganglion neuronal cultures on an integrated microfluidic multielectrode array platform. <i>Analyst, The</i> , 2016, 141, 5346-5357.	3.5	22
34	Dual-acting agents that possess free radical scavenging and antithrombotic activities: Design, synthesis, and evaluation of phenolic tetrahydro- β -carboline RGD peptide conjugates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006, 16, 4523-4527.	2.2	20
35	Characterization and Purification of Polydisperse Reconstituted Lipoproteins and Nanolipoprotein Particles. <i>International Journal of Molecular Sciences</i> , 2009, 10, 2958-2971.	4.1	19
36	Isolation, Characterization, and Stability of Discretely-Sized Nanolipoprotein Particles Assembled with Apolipoprotein III. <i>PLoS ONE</i> , 2010, 5, e11643.	2.5	19

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37	Quantifying Interactions of a Membrane Protein Embedded in a Lipid Nanodisc using Fluorescence Correlation Spectroscopy. <i>Biophysical Journal</i> , 2014, 106, L05-L08.	0.5	15
38	Enhancement of antigen-specific CD4+ and CD8+ T cell responses using a self-assembled biologic nanolipoprotein particle vaccine. <i>Vaccine</i> , 2017, 35, 1475-1481.	3.8	15
39	Intranasal Nanoparticle Vaccination Elicits a Persistent, Polyfunctional CD4 T Cell Response in the Murine Lung Specific for a Highly Conserved Influenza Virus Antigen That Is Sufficient To Mediate Protection from Influenza Virus Challenge. <i>Journal of Virology</i> , 2021, 95, e0084121.	3.4	15
40	Probing function in 3D neuronal cultures: A survey of 3D multielectrode array advances. <i>Current Opinion in Pharmacology</i> , 2021, 60, 255-260.	3.5	15
41	HIV influences microtubule associated protein-2: potential marker of HIV-associated neurocognitive disorders. <i>Aids</i> , 2020, 34, 979-988.	2.2	14
42	Lipid Cross-Linking of Nanolipoprotein Particles Substantially Enhances Serum Stability and Cellular Uptake. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20549-20557.	8.0	12
43	Lipid composition dictates serum stability of reconstituted high-density lipoproteins: implications for in vivo applications. <i>Nanoscale</i> , 2018, 10, 7420-7430.	5.6	12
44	Nanofiber Near-Field Light-Matter Interactions for Enhanced Detection of Molecular Level Displacements and Dynamics. <i>Nano Letters</i> , 2013, 13, 1440-1445.	9.1	10
45	Light-induced inhibition of chymotrypsin using photocleavable monolayers on gold nanoparticles. <i>Chemical Communications</i> , 2004, , 2866.	4.1	9
46	Nanoparticles and antigen delivery: understanding the benefits and drawbacks of different delivery platforms. <i>Nanomedicine</i> , 2014, 9, 373-376.	3.3	9
47	Cationic HDL mimetics enhance in vivo delivery of self-replicating mRNA. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 24, 102154.	3.3	8
48	Extent of MHC Clustering Regulates Selectivity and Effectiveness of T Cell Responses. <i>Journal of Immunology</i> , 2019, 202, 591-597.	0.8	7
49	Cellular, molecular, and therapeutic characterization of pilocarpine-induced temporal lobe epilepsy. <i>Scientific Reports</i> , 2021, 11, 19102.	3.3	7
50	Small-angle X-ray and neutron scattering demonstrates that cell-free expression produces properly formed disc-shaped nanolipoprotein particles. <i>Protein Science</i> , 2018, 27, 780-789.	7.6	6
51	Modeling the temporal network dynamics of neuronal cultures. <i>PLoS Computational Biology</i> , 2020, 16, e1007834.	3.2	4
52	Characterization of Bacillus anthracis Spore Proteins Using a Nanoscaffold Vaccine Platform. <i>Frontiers in Immunology</i> , 2020, 11, 1264.	4.8	4
53	Enhancing the efficacy of innate immune agonists: could nanolipoprotein particles hold the key?. <i>Nanomedicine</i> , 2014, 9, 369-372.	3.3	3
54	Nanofiber-Based Total Internal Reflection Microscopy for Characterizing Colloidal Systems at the Microscale. <i>Journal of Physical Chemistry C</i> , 2018, 122, 22114-22124.	3.1	3

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55	Identification and Optimization of DNA Aptamer Binding Regions Using DNA Microarrays. <i>Methods in Molecular Biology</i> , 2011, 723, 57-66.	0.9	3
56	Induction of Protection in Mice against a <i>Chlamydia muridarum</i> Respiratory Challenge by a Vaccine Formulated with the Major Outer Membrane Protein in Nanolipoprotein Particles. <i>Vaccines</i> , 2021, 9, 755.	4.4	2
57	Tailoring HDL mimetics for <i>in vivo</i> delivery of mRNA. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	2
58	Strategies for Functionalizing Lipoprotein-Based Nanoparticles. <i>ACS Symposium Series</i> , 2017, , 131-150.	0.5	1
59	A Survey of Preclinical Studies Evaluating Nanoparticle-Based Vaccines Against Non-Viral Sexually Transmitted Infections. <i>Frontiers in Pharmacology</i> , 2021, 12, 768461.	3.5	1
60	Cell-free Scaled Production and Adjuvant Addition to a Recombinant Major Outer Membrane Protein from <i>Chlamydia muridarum</i> for Vaccine Development. <i>Journal of Visualized Experiments</i> , 2022, , .	0.3	0