Nicholas O Fischer

List of Publications by Year
in descending order

60	2,443	236925 25	206112 48
papers	citations	h-index	g-index

60	60	60	3626
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cell-free Scaled Production and Adjuvant Addition to a Recombinant Major Outer Membrane Protein from Chlamydia muridarum for Vaccine Development. Journal of Visualized Experiments, 2022, , .	0.3	0
2	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. Journal of Virology, 2021, 95, e0084121.	3.4	15
3	Induction of Protection in Mice against a Chlamydia muridarum Respiratory Challenge by a Vaccine Formulated with the Major Outer Membrane Protein in Nanolipoprotein Particles. Vaccines, 2021, 9, 755.	4.4	2
4	Cellular, molecular, and therapeutic characterization of pilocarpine-induced temporal lobe epilepsy. Scientific Reports, 2021, 11, 19102.	3.3	7
5	Probing function in 3D neuronal cultures: A survey of 3D multielectrode array advances. Current Opinion in Pharmacology, 2021, 60, 255-260.	3.5	15
6	A Survey of Preclinical Studies Evaluating Nanoparticle-Based Vaccines Against Non-Viral Sexually Transmitted Infections. Frontiers in Pharmacology, 2021, 12, 768461.	3.5	1
7	Optimizing cell encapsulation condition in ECM-Collagen I hydrogels to support 3D neuronal cultures. Journal of Neuroscience Methods, 2020, 329, 108460.	2.5	32
8	A Reconfigurable In Vitro Model for Studying the Bloodâ€“Brain Barrier. Annals of Biomedical Engineering, 2020, 48, 780-793.	2.5	31
9	Modeling the temporal network dynamics of neuronal cultures. PLoS Computational Biology, 2020, 16, e1007834.	3.2	4
10	Characterization of Bacillus anthracis Spore Proteins Using a Nanoscaffold Vaccine Platform. Frontiers in Immunology, 2020, 11, 1264.	4.8	4
11	Functional and transcriptional characterization of complex neuronal co-cultures. Scientific Reports, 2020, 10, 11007.	3.3	27
12	HIV influences microtubule associated protein-2: potential marker of HIV-associated neurocognitive disorders. Aids, 2020, 34, 979-988.	2.2	14
13	A flexible 3-dimensional microelectrode array for in vitro brain models. Lab on A Chip, 2020, 20, 901-911.	6.0	111
14	Cationic HDL mimetics enhance in vivo delivery of self-replicating mRNA. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 24, 102154.	3.3	8
15	Tailoring HDL mimetics for in vivo delivery of mRNA. FASEB Journal, 2020, 34, 1-1.	0.5	2
16	Tissue-specific extracellular matrix accelerates the formation of neural networks and communities in a neuron-glia co-culture on a multi-electrode array. Scientific Reports, 2019, 9, 4159.	3.3	119
17	Extent of MHC Clustering Regulates Selectivity and Effectiveness of T Cell Responses. Journal of Immunology, 2019, 202, 591-597.	0.8	7
18	Smallâ€angle Xâ€ray and neutron scattering demonstrates that cellâ€free expression produces properly formed discâ€shaped nanolipoprotein particles. Protein Science, 2018, 27, 780-789.	7.6	6

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19	Lipid composition dictates serum stability of reconstituted high-density lipoproteins: implications for in vivo applications. Nanoscale, 2018, 10, 7420-7430.	5.6	12
20	Nanofiber-Based Total Internal Reflection Microscopy for Characterizing Colloidal Systems at the Microscale. Journal of Physical Chemistry C, 2018, 122, 22114-22124.	3.1	3
21	Evaluation of in vitro neuronal platforms as surrogates for in vivo whole brain systems. Scientific Reports, 2018, 8, 10820.	3.3	31
22	Enhancement of antigen-specific CD4+ and CD8+ T cell responses using a self-assembled biologic nanolipoprotein particle vaccine. Vaccine, 2017, 35, 1475-1481.	3.8	15
23	Strategies for Functionalizing Lipoprotein-Based Nanoparticles. ACS Symposium Series, 2017, , 131-150.	0.5	1
24	Cell-free production of a functional oligomeric form of a Chlamydia major outer-membrane protein (MOMP) for vaccine development. Journal of Biological Chemistry, 2017, 292, 15121-15132.	3.4	28
25	Controlled placement of multiple CNS cell populations to create complex neuronal cultures. PLoS ONE, 2017, 12, e0188146.	2.5	35
26	Lipid Cross-Linking of Nanolipoprotein Particles Substantially Enhances Serum Stability and Cellular Uptake. ACS Applied Materials & Interfaces, 2016, 8, 20549-20557.	8.0	12
27	Long-term non-invasive interrogation of human dorsal root ganglion neuronal cultures on an integrated microfluidic multielectrode array platform. Analyst, The, 2016, 141, 5346-5357.	3.5	22
28	Evaluation of Nanolipoprotein Particles (NLPs) as an In Vivo Delivery Platform. PLoS ONE, 2014, 9, e93342.	2.5	42
29	Enhancing the efficacy of innate immune agonists: could nanolipoprotein particles hold the key?. Nanomedicine, 2014, 9, 369-372.	3.3	3
30	Nanoparticles and antigen delivery: understanding the benefits and drawbacks of different delivery platforms. Nanomedicine, 2014, 9, 373-376.	3.3	9
31	Fluorescence Correlation Spectroscopy at Micromolar Concentrations without Optical Nanoconfinement. Journal of Physical Chemistry B, 2014, 118, 9662-9667.	2.6	22
32	Quantifying Interactions of a Membrane Protein Embedded in a Lipid Nanodisc using Fluorescence Correlation Spectroscopy. Biophysical Journal, 2014, 106, L05-L08.	0.5	15
33	The use of nanolipoprotein particles to enhance the immunostimulatory properties of innate immune agonists against lethal influenza challenge. Biomaterials, 2013, 34, 10305-10318.	11.4	33
34	Colocalized Delivery of Adjuvant and Antigen Using Nanolipoprotein Particles Enhances the Immune Response to Recombinant Antigens. Journal of the American Chemical Society, 2013, 135, 2044-2047.	13.7	80
35	Nanofiber Near-Field Lightâ€“Matter Interactions for Enhanced Detection of Molecular Level Displacements and Dynamics. Nano Letters, 2013, 13, 1440-1445.	9.1	10
36	Enhanced Cellulose Degradation Using Cellulase-Nanosphere Complexes. PLoS ONE, 2012, 7, e42116.	2.5	42

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37	Identification and Optimization of DNA Aptamer Binding Regions Using DNA Microarrays. Methods in Molecular Biology, 2011, 723, 57-66.	0.9	3
38	Isolation, Characterization, and Stability of Discretely-Sized Nanolipoprotein Particles Assembled with Apolipophorin-III. PLoS ONE, 2010, 5, e11643.	2.5	19
39	Kinetic Analysis of His-Tagged Protein Binding to Nickel-Chelating Nanolipoprotein Particles. Bioconjugate Chemistry, 2010, 21, 1321-1330.	3.6	29
40	Conjugation to Nickel-Chelating Nanolipoprotein Particles Increases the Potency and Efficacy of Subunit Vaccines to Prevent West Nile Encephalitis. Bioconjugate Chemistry, 2010, 21, 1018-1022.	3.6	46
41	Characterization and Purification of Polydisperse Reconstituted Lipoproteins and Nanolipoprotein Particles. International Journal of Molecular Sciences, 2009, 10, 2958-2971.	4.1	19
42	Immobilization of His-Tagged Proteins on Nickel-Chelating Nanolipoprotein Particles. Bioconjugate Chemistry, 2009, 20, 460-465.	3.6	42
43	Hydrogen Production by a Hyperthermophilic Membrane-Bound Hydrogenase in Water-Soluble Nanolipoprotein Particles. Journal of the American Chemical Society, 2009, 131, 7508-7509.	13.7	43
44	Protein detection via direct enzymatic amplification of short DNA aptamers. Analytical Biochemistry, 2008, 373, 121-128.	2.4	75
45	Sensitive and selective viral DNA detection assay via microbead-based rolling circle amplification. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 5871-5874.	2.2	22
46	Single microbead SELEX for efficient ssDNA aptamer generation against botulinum neurotoxin. Chemical Communications, 2008, , 1883.	4.1	75
47	Protein-passivated Fe3O4 nanoparticles: low toxicity and rapid heating for thermal therapy. Journal of Materials Chemistry, 2008, 18, 1204.	6.7	167
48	Biofunctional Subwavelength Optical Waveguides for Biodetection. ACS Nano, 2008, 2, 255-262.	14.6	25
49	Massively Parallel Interrogation of Aptamer Sequence, Structure and Function. PLoS ONE, 2008, 3, e2720.	2.5	45
50	Heightened sense for sensing: recent advances in pathogen immunoassay sensing platforms. Analyst, The, 2007, 132, 187.	3.5	22
51	Aptasensors for biosecurity applications. Current Opinion in Chemical Biology, 2007, 11, 316-328.	6.1	55
52	Surface Modification Using Cubic Silsesquioxane Ligands. Facile Synthesis of Water-Soluble Metal Oxide Nanoparticles. Chemistry of Materials, 2006, 18, 956-959.	6.7	64
53	Dual-acting agents that possess free radical scavenging and antithrombotic activities: Design, synthesis, and evaluation of phenolic tetrahydro-Î²-carboline RGD peptide conjugates. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 4523-4527.	2.2	20
54	Surface PEGylation and Ligand Exchange Chemistry of FePt Nanoparticles for Biological Applications. Chemistry of Materials, 2005, 17, 4617-4621.	6.7	215

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55	Highly Efficient Biocatalysts via Covalent Immobilization ofCandida rugosa Lipase on Ethylene Glycol-Modified Goldâ€“Silica Nanocomposites. Advanced Materials, 2004, 16, 271-274.	21.0	44
56	Light-induced inhibition of chymotrypsin using photocleavable monolayers on gold nanoparticles. Chemical Communications, 2004, , 2866.	4.1	9
57	Control of Protein Structure and Function through Surface Recognition by Tailored Nanoparticle Scaffolds. Journal of the American Chemical Society, 2004, 126, 739-743.	13.7	273
58	Reversible â€œIrreversibleâ€•Inhibition of Chymotrypsin Using Nanoparticle Receptors. Journal of the American Chemical Society, 2003, 125, 13387-13391.	13.7	100
59	Inhibition of chymotrypsin through surface binding using nanoparticle-based receptors. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5018-5023.	7.1	187
60	HSV-2 disrupts gap junctional intercellular communication between mammalian cells in vitro. Journal of Virological Methods, 2001, 91, 157-166.	2.1	24