

# Niren Murthy

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

3,409  
citations

411340

20  
h-index

232693

48  
g-index

52  
all docs

52  
docs citations

52  
times ranked

6800  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dimensionless parameter predicts bacterial prodrug success. <i>Molecular Systems Biology</i> , 2022, 18, e10495.	3.2	2
2	A self-immolative linker that releases thiols detects penicillin amidase and nitroreductase with high sensitivity via absorption spectroscopy. <i>Chemical Communications</i> , 2022, , .	2.2	0
3	Acid-Sensitive Surfactants Enhance the Delivery of Nucleic Acids. <i>Molecular Pharmaceutics</i> , 2022, 19, 67-79.	2.3	4
4	The Coiled-Coil Forming Peptide (KVSALKE) <sub>5</sub> Is a Cell Penetrating Peptide that Enhances the Intracellular Delivery of Proteins. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102118.	3.9	7
5	Non-viral strategies for delivering genome editing enzymes. <i>Advanced Drug Delivery Reviews</i> , 2021, 168, 99-117.	6.6	32
6	A Dual Enzyme-Based Biochemical Test Rapidly Detects Third-Generation Cephalosporin-Resistant CTX-M-Producing Uropathogens in Clinical Urine Samples. <i>Microbial Drug Resistance</i> , 2021, 27, 450-461.	0.9	6
7	Antibiotic Cross-linked Micelles with Reduced Toxicity for Multidrug-Resistant Bacterial Sepsis Treatment. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 9630-9642.	4.0	19
8	Maltohexaose-indocyanine green (MH-ICG) for near infrared imaging of endocarditis. <i>PLoS ONE</i> , 2021, 16, e0247673.	1.1	1
9	A rapid, antibiotic susceptibility test for multidrug-resistant, Gram-negative bacterial uropathogens using the biochemical assay, DETECT. <i>Journal of Microbiological Methods</i> , 2021, 182, 106160.	0.7	11
10	Screening a Library of FDA-Approved and Bioactive Compounds for Antiviral Activity against SARS-CoV-2. <i>ACS Infectious Diseases</i> , 2021, 7, 2337-2351.	1.8	23
11	Advances in Imaging Reactive Oxygen Species. <i>Journal of Nuclear Medicine</i> , 2021, 62, 457-461.	2.8	12
12	A pH-sensitive eosin-block copolymer delivers proteins intracellularly. <i>Chemical Communications</i> , 2020, 56, 14207-14210.	2.2	2
13	A traceless linker for aliphatic amines that rapidly and quantitatively fragments after reduction. <i>Chemical Science</i> , 2020, 11, 8973-8980.	3.7	15
14	The delivery challenge: fulfilling the promise of therapeutic genome editing. <i>Nature Biotechnology</i> , 2020, 38, 845-855.	9.4	163
15	A cephalosporin chemiluminescent conjugate increases beta-lactamase detection sensitivity by four orders of magnitude. <i>Chemical Communications</i> , 2020, 56, 3516-3519.	2.2	12
16	The methionase chain reaction: an enzyme-based autocatalytic amplification system for the detection of thiols. <i>Chemical Communications</i> , 2020, 56, 3175-3178.	2.2	5
17	Detection of unamplified target genes via CRISPR-Cas9 immobilized on a graphene field-effect transistor. <i>Nature Biomedical Engineering</i> , 2019, 3, 427-437.	11.6	418
18	A novel fluorescent surfactant enhances the delivery of the Cas9 ribonucleoprotein and enables the identification of edited cells. <i>Chemical Communications</i> , 2019, 55, 4562-4565.	2.2	7

#	ARTICLE	IF	CITATIONS
19	Novel PET and Near Infrared Imaging Probes for the Specific Detection of Bacterial Infections Associated With Cardiac Devices. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 875-886.	2.3	25
20	Recent developments in intracellular protein delivery. <i>Current Opinion in Biotechnology</i> , 2018, 52, 25-31.	3.3	50
21	A Cleavage-Responsive Stem-Loop Hairpin for Assaying Guide RNA Activity. <i>ACS Chemical Biology</i> , 2018, 13, 461-466.	1.6	2
22	Engineering CRISPR-Cas9 RNA-Protein Complexes for Improved Function and Delivery. <i>CRISPR Journal</i> , 2018, 1, 367-378.	1.4	11
23	Side effects-avoided theranostics achieved by biodegradable magnetic silica-sealed mesoporous polymer-drug with ultralow leakage. <i>Biomaterials</i> , 2018, 186, 1-7.	5.7	32
24	Graphene-based biosensor for on-chip detection of bio-orthogonally labeled proteins to identify the circulating biomarkers of aging during heterochronic parabiosis. <i>Lab on A Chip</i> , 2018, 18, 3230-3238.	3.1	20
25	Nanoparticle delivery of CRISPR into the brain rescues a mouse model of fragile X syndrome from exaggerated repetitive behaviours. <i>Nature Biomedical Engineering</i> , 2018, 2, 497-507.	11.6	277
26	Extension of the crRNA enhances Cpf1 gene editing in vitro and in vivo. <i>Nature Communications</i> , 2018, 9, 3313.	5.8	74
27	An Enzyme-Mediated Amplification Strategy Enables Detection of $\beta$ -Lactamase Activity Directly in Unprocessed Clinical Samples for Phenotypic Detection of $\beta$ -Lactam Resistance. <i>ChemBioChem</i> , 2018, 19, 2173-2177.	1.3	12
28	A peptide-based fluorescent probe images ERAAP activity in cells and in high throughput assays. <i>Chemical Communications</i> , 2018, 54, 7215-7218.	2.2	2
29	Nitro sulfonyl fluorides are a new pharmacophore for the development of antibiotics. <i>Molecular Systems Design and Engineering</i> , 2018, 3, 599-603.	1.7	9
30	End-point immobilization of heparin on plasma-treated surface of electrospun polycarbonate-urethane vascular graft. <i>Acta Biomaterialia</i> , 2017, 51, 138-147.	4.1	79
31	An oral microjet vaccination system elicits antibody production in rabbits. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	44
32	Nanoparticle delivery of Cas9 ribonucleoprotein and donor DNA in vivo induces homology-directed DNA repair. <i>Nature Biomedical Engineering</i> , 2017, 1, 889-901.	11.6	566
33	Thiophene bridged aldehydes (TBAs) image ALDH activity in cells via modulation of intramolecular charge transfer. <i>Chemical Science</i> , 2017, 8, 7143-7151.	3.7	9
34	Synthetically modified guide RNA and donor DNA are a versatile platform for CRISPR-Cas9 engineering. <i>ELife</i> , 2017, 6, .	2.8	121
35	Aptavalve-gated Mesoporous Carbon Nanospheres image Cellular Mucin and provide On-demand Targeted Drug Delivery. <i>Theranostics</i> , 2017, 7, 3319-3325.	4.6	20
36	Hydrogel Pore-Size Modulation for Enhanced Single-Cell Western Blotting. <i>Advanced Materials</i> , 2016, 28, 327-334.	11.1	57

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37	Biosensors: Stimuli-Responsive Electrodes Detect Oxidative Stress and Liver Injury (Adv. Mater. 8/2015). Advanced Materials, 2015, 27, 1432-1432.	11.1	1
38	In Vivo Imaging of Retinal Oxidative Stress Using a Reactive Oxygen Species-Activated Fluorescent Probe. , 2015, 56, 5862.		35
39	Peptide-enhanced mRNA transfection in cultured mouse cardiac fibroblasts and direct reprogramming towards cardiomyocyte-like cells. International Journal of Nanomedicine, 2015, 10, 1841.	3.3	35
40	In vivo delivery of transcription factors with multifunctional oligonucleotides. Nature Materials, 2015, 14, 701-706.	13.3	61
41	A synthetic hydrogel for the high-throughput study of cell-ECM interactions. Nature Communications, 2015, 6, 8129.	5.8	125
42	Bioactive nanoparticles improve calcium handling in failing cardiac myocytes. Nanomedicine, 2015, 10, 3343-3357.	1.7	14
43	A turn-off fluorescent substrate for horseradish peroxidase improves the sensitivity of ELISA. Journal of Polymer Science Part A, 2015, 53, 206-210.	2.5	2
44	PET Imaging of Bacterial Infections with Fluorine-18 Labeled Maltotetraose. Angewandte Chemie - International Edition, 2014, 53, 14096-14101.	7.2	118
45	Bacterial Imaging Comes of Age. Science Translational Medicine, 2014, 6, 259fs43.	5.8	19
46	Rapidly polymerizing injectable click hydrogel therapy to delay bone growth in a murine re-synostosis model. Biomaterials, 2014, 35, 9698-9708.	5.7	45
47	Metabolic engineering of lactate dehydrogenase rescues mice from acidosis. Scientific Reports, 2014, 4, 5189.	1.6	10
48	Targeting Extracellular DNA to Deliver IGF-1 to the Injured Heart. Scientific Reports, 2014, 4, 4257.	1.6	33
49	Dissolving polymer microneedle patches for influenza vaccination. Nature Medicine, 2010, 16, 915-920.	15.2	754