

Yamuna Krishnan

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

5,876
citations

117625

34
h-index

79698

73
g-index

101
all docs

101
docs citations

101
times ranked

5878
citing authors

#	ARTICLE	IF	CITATIONS
1	Organelle-level precision with next-generation targeting technologies. <i>Nature Reviews Materials</i> , 2022, 7, 355-371.	48.7	63
2	Proton-activated chloride channel PAC regulates endosomal acidification and transferrin receptor-mediated endocytosis. <i>Cell Reports</i> , 2021, 34, 108683.	6.4	32
3	Tissue-specific targeting of DNA nanodevices in a multicellular living organism. <i>ELife</i> , 2021, 10, .	6.0	6
4	New Vistas for Cell-Surface GlycoRNAs. <i>New England Journal of Medicine</i> , 2021, 385, 658-660.	27.0	3
5	A DNA-based voltmeter for organelles. <i>Nature Nanotechnology</i> , 2021, 16, 96-103.	31.5	82
6	Tubular lysosomes harbor active ion gradients and poise macrophages for phagocytosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	21
7	A lysosome-targeted DNA nanodevice selectively targets macrophages to attenuate tumours. <i>Nature Nanotechnology</i> , 2021, 16, 1394-1402.	31.5	42
8	A DNA Aptamer for Cyclic Adenosine Monophosphate that Shows Adaptive Recognition. <i>ChemBioChem</i> , 2020, 21, 157-162.	2.6	5
9	Quantitative Imaging of Biochemistry in Situ and at the Nanoscale. <i>ACS Central Science</i> , 2020, 6, 1938-1954.	11.3	22
10	Quantifying phagosomal HOCl at single immune-cell resolution. <i>Methods in Cell Biology</i> , 2020, 164, 119-136.	1.1	1
11	Controlled release of bioactive signaling molecules. <i>Methods in Enzymology</i> , 2020, 638, 129-138.	1.0	1
12	DNA-based fluorescent probes of NOS2 activity in live brains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14694-14702.	7.1	32
13	A DNA-based fluorescent probe maps NOS3 activity with subcellular spatial resolution. <i>Nature Chemical Biology</i> , 2020, 16, 660-666.	8.0	55
14	What biologists want from their chloride reporters – a conversation between chemists and biologists. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	27
15	Chemically Resolving Lysosome Populations in Live Cells. <i>Trends in Biochemical Sciences</i> , 2020, 45, 365-366.	7.5	3
16	Photostable Voltage-Sensitive Dyes Based on Simple, Solvatofluorochromic, Asymmetric Thiazolothiazoles. <i>Journal of the American Chemical Society</i> , 2019, 141, 18780-18790.	13.7	73
17	Quantitative Mapping of Endosomal DNA Processing by Single Molecule Counting. <i>Angewandte Chemie</i> , 2019, 131, 3105-3108.	2.0	4
18	Quantitative Mapping of Endosomal DNA Processing by Single Molecule Counting. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3073-3076.	13.8	16

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19	Introduction: Nucleic Acid Nanotechnology. <i>Chemical Reviews</i> , 2019, 119, 6271-6272.	47.7	31
20	Dynamic RNA Nanotechnology Enters the CRISPR Toolbox. <i>ACS Central Science</i> , 2019, 5, 1111-1113.	11.3	7
21	Precision immunomodulation with synthetic nucleic acid technologies. <i>Nature Reviews Materials</i> , 2019, 4, 451-458.	48.7	27
22	DNA nanodevices map enzymatic activity in organelles. <i>Nature Nanotechnology</i> , 2019, 14, 252-259.	31.5	72
23	A DNA-based fluorescent reporter maps HOCl production in the maturing phagosome. <i>Nature Chemical Biology</i> , 2019, 15, 1165-1172.	8.0	61
24	A pH-correctable, DNA-based fluorescent reporter for organellar calcium. <i>Nature Methods</i> , 2019, 16, 95-102.	19.0	115
25	A DNA nanomachine chemically resolves lysosomes in live cells. <i>Nature Nanotechnology</i> , 2019, 14, 176-183.	31.5	139
26	Subcellular Nanorheology Reveals Lysosomal Viscosity as a Reporter for Lysosomal Storage Diseases. <i>Nano Letters</i> , 2018, 18, 1351-1359.	9.1	35
27	Chemical control over membrane-initiated steroid signaling with a DNA nanocapsule. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9432-9437.	7.1	11
28	Visualization of Calcium Ion Loss from Rotavirus during Cell Entry. <i>Journal of Virology</i> , 2018, 92, .	3.4	27
29	Making Worms Glow. <i>Resonance</i> , 2018, 23, 291-298.	0.3	0
30	Probing the structure and in silico stability of cargo loaded DNA icosahedra using MD simulations. <i>Nanoscale</i> , 2017, 9, 4467-4477.	5.6	14
31	ATP as a biological hydrotrope. <i>Science</i> , 2017, 356, 753-756.	12.6	677
32	A novel type of quantum dot-transferrin conjugate using DNA hybridization mimics intracellular recycling of endogenous transferrin. <i>Nanoscale</i> , 2017, 9, 15453-15460.	5.6	7
33	Cell-targetable DNA nanocapsules for spatiotemporal release of caged bioactive small molecules. <i>Nature Nanotechnology</i> , 2017, 12, 1183-1189.	31.5	103
34	High luminal chloride in the lysosome is critical for lysosome function. <i>ELife</i> , 2017, 6, .	6.0	86
35	A structural map of oncomiR-1 at single-nucleotide resolution. <i>Nucleic Acids Research</i> , 2017, 45, 9694-9705.	14.5	13
36	Quantum dot-loaded monofunctionalized DNA icosahedra for single-particle tracking of endocytic pathways. <i>Nature Nanotechnology</i> , 2016, 11, 1112-1119.	31.5	142

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37	Nucleic Acid-Based Nanodevices in Biological Imaging. Annual Review of Biochemistry, 2016, 85, 349-373.	11.1	124
38	Rational design of a quantitative, pH-insensitive, nucleic acid based fluorescent chloride reporter. Chemical Science, 2016, 7, 1946-1953.	7.4	18
39	Voices of biotech. Nature Biotechnology, 2016, 34, 270-275.	17.5	4
40	Tuning the pH Response of Motif DNA Oligonucleotides. ChemBioChem, 2015, 16, 1647-1656.	2.6	52
41	Design of ultrasensitive DNA-based fluorescent pH sensitive nanodevices. Nanoscale, 2015, 7, 10008-10012.	5.6	30
42	Fast, Efficient, and Stable Conjugation of Multiple DNA Strands on Colloidal Quantum Dots. Bioconjugate Chemistry, 2015, 26, 1582-1589.	3.6	42
43	A pH-independent DNA nanodevice for quantifying chloride transport in organelles of living cells. Nature Nanotechnology, 2015, 10, 645-651.	31.5	179
44	Designing DNA nanodevices for compatibility with the immune system of higher organisms. Nature Nanotechnology, 2015, 10, 741-747.	31.5	203
45	A Fluorescent Nucleic Acid Nanodevice Quantitatively Images Elevated Cyclic Adenosine Monophosphate in Membrane-Bound Compartments. Small, 2014, 10, 4276-4280.	10.0	15
46	Recombinant antibody mediated delivery of organelle-specific DNA pH sensors along endocytic pathways. Nanoscale, 2014, 6, 1144-1152.	5.6	31
47	At a long-awaited turning point. Nature Nanotechnology, 2014, 9, 491-494.	31.5	13
48	The Predictive Power of Synthetic Nucleic Acid Technologies in RNA Biology. Accounts of Chemical Research, 2014, 47, 1710-1719.	15.6	12
49	A method to study in vivo stability of DNA nanostructures. Methods, 2013, 64, 94-100.	3.8	57
50	Nucleic Acids Chemistry and Applications. Journal of Organic Chemistry, 2013, 78, 12283-12287.	3.2	8
51	A Method to Map Spatiotemporal pH Changes in a Multicellular Living Organism Using a DNA Nanosensor. Methods in Molecular Biology, 2013, 991, 9-23.	0.9	2
52	A Method to Encapsulate Molecular Cargo Within DNA Icosahedra. Methods in Molecular Biology, 2013, 991, 65-80.	0.9	4
53	Two DNA nanomachines map pH changes along intersecting endocytic pathways inside the same cell. Nature Nanotechnology, 2013, 8, 459-467.	31.5	305
54	Controlled Release of Encapsulated Cargo from a DNA Icosahedron using a Chemical Trigger. Angewandte Chemie - International Edition, 2013, 52, 6854-6857.	13.8	109

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55	Pri-miR-17-92a transcript folds into a tertiary structure and autoregulates its processing. <i>Rna</i> , 2012, 18, 1014-1028.	3.5	56
56	Designer nucleic acids to probe and program the cell. <i>Trends in Cell Biology</i> , 2012, 22, 624-633.	7.9	68
57	Designer DNA give RNAi more spine. <i>Nature Nanotechnology</i> , 2012, 7, 344-346.	31.5	10
58	A synthetic icosahedral DNA-based host-cargo complex for functional in vivo imaging. <i>Nature Communications</i> , 2011, 2, 339.	12.8	215
59	An autonomous DNA nanomachine maps spatiotemporal pH changes in a multicellular living organism. <i>Nature Communications</i> , 2011, 2, 340.	12.8	227
60	Nucleic Acid Based Molecular Devices. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3124-3156.	13.8	527
61	Synthetic, biofunctional nucleic acid-based molecular devices. <i>Current Opinion in Biotechnology</i> , 2011, 22, 475-484.	6.6	30
62	pH-Toggled DNA Architectures: Reversible Assembly of Three-Way Junctions into Extended 1D Architectures Through A-Motif Formation. <i>Small</i> , 2010, 6, 1288-1292.	10.0	22
63	Structural DNA Nanotechnology: From Bases to Bricks, From Structure to Function. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1994-2005.	4.6	63
64	Icosahedral DNA Nanocapsules by Modular Assembly. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4134-4137.	13.8	196
65	A DNA nanomachine that maps spatial and temporal pH changes inside living cells. <i>Nature Nanotechnology</i> , 2009, 4, 325-330.	31.5	697
66	The poly dA helix: a new structural motif for high performance DNA-based molecular switches. <i>Nucleic Acids Research</i> , 2009, 37, 2810-2817.	14.5	122
67	Combining Quadruplex Targeting Motifs on a Single Peptide Nucleic Acid Scaffold: A Hybrid (3+1) PNA-DNA Bimolecular Quadruplex. <i>Chemistry - A European Journal</i> , 2008, 14, 8682-8689.	3.3	57
68	Kinetic hybrid i-motifs: Intercepting DNA with RNA to form a DNA-RNA i-motif. <i>Biochimie</i> , 2008, 90, 1088-1095.	2.6	11
69	The I-Tetraplex Building Block: Rational Design and Controlled Fabrication of Robust 1D DNA Scaffolds through Non-Watson-Crick Interactions. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2646-2649.	13.8	47
70	First blueprint, now bricks: DNA as construction material on the nanoscale. <i>Chemical Society Reviews</i> , 2006, 35, 1111.	38.1	67
71	The PNA-DNA hybrid I-motif: implications for sugar-sugar contacts in i-motif tetramerization. <i>Nucleic Acids Research</i> , 2006, 34, 4354-4363.	14.5	44
72	Give It All You've Got. <i>ChemistryViews</i> , 0, , .	0.0	0