

Yamuna Krishnan

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/135393/yamuna-krishnan-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72
papers

4,545
citations

33
h-index

67
g-index

101
ext. papers

5,307
ext. citations

18
avg, IF

6.02
L-index

#	Paper	IF	Citations
72	A lysosome-targeted DNA nanodevice selectively targets macrophages to attenuate tumours. <i>Nature Nanotechnology</i> , 2021 ,	28.7	8
71	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,	11.5	3
70	A DNA-based voltmeter for organelles. <i>Nature Nanotechnology</i> , 2021 , 16, 96-103	28.7	33
69	Quantifying phagosomal HOCl at single immune-cell resolution. <i>Methods in Cell Biology</i> , 2021 , 164, 119-136	13.6	1
68	Proton-activated chloride channel PAC regulates endosomal acidification and transferrin receptor-mediated endocytosis. <i>Cell Reports</i> , 2021 , 34, 108683	10.6	12
67	Tissue-specific targeting of DNA nanodevices in a multicellular living organism. <i>ELife</i> , 2021 , 10,	8.9	4
66	New Vistas for Cell-Surface GlycoRNAs. <i>New England Journal of Medicine</i> , 2021 , 385, 658-660	59.2	2
65	Controlled release of bioactive signaling molecules. <i>Methods in Enzymology</i> , 2020 , 638, 129-138	1.7	1
64	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	11.5	22
63	A DNA-based fluorescent probe maps NOS3 activity with subcellular spatial resolution. <i>Nature Chemical Biology</i> , 2020 , 16, 660-666	11.7	35
62	What biologists want from their chloride reporters - a conversation between chemists and biologists. <i>Journal of Cell Science</i> , 2020 , 133,	5.3	13
61	Chemically Resolving Lysosome Populations in Live Cells. <i>Trends in Biochemical Sciences</i> , 2020 , 45, 365-366	6.3	2
60	Quantitative Imaging of Biochemistry and at the Nanoscale. <i>ACS Central Science</i> , 2020 , 6, 1938-1954	16.8	14
59	A DNA Aptamer for Cyclic Adenosine Monophosphate that Shows Adaptive Recognition. <i>ChemBioChem</i> , 2020 , 21, 157-162	3.8	4
58	Quantitative Mapping of Endosomal DNA Processing by Single Molecule Counting. <i>Angewandte Chemie</i> , 2019 , 131, 3105-3108	3.6	2
57	Quantitative Mapping of Endosomal DNA Processing by Single Molecule Counting. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 3073-3076	16.4	8
56	Precision immunomodulation with synthetic nucleic acid technologies. <i>Nature Reviews Materials</i> , 2019 , 4, 451-458	73.3	19

55	DNA nanodevices map enzymatic activity in organelles. <i>Nature Nanotechnology</i> , 2019 , 14, 252-259	28.7	48
54	Photostable Voltage-Sensitive Dyes Based on Simple, Solvatofluorochromic, Asymmetric Thiazolothiazoles. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18780-18790	16.4	39
53	A DNA-based fluorescent reporter maps HOCl production in the maturing phagosome. <i>Nature Chemical Biology</i> , 2019 , 15, 1165-1172	11.7	46
52	A pH-correctable, DNA-based fluorescent reporter for organellar calcium. <i>Nature Methods</i> , 2019 , 16, 95-102	21.6	78
51	A DNA nanomachine chemically resolves lysosomes in live cells. <i>Nature Nanotechnology</i> , 2019 , 14, 176-183	23.7	95
50	Subcellular Nanorheology Reveals Lysosomal Viscosity as a Reporter for Lysosomal Storage Diseases. <i>Nano Letters</i> , 2018 , 18, 1351-1359	11.5	20
49	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	11.5	11
48	Making Worms Glow 2018 , 23, 291-298		
47	Visualization of Calcium Ion Loss from Rotavirus during Cell Entry. <i>Journal of Virology</i> , 2018 , 92,	6.6	14
46	Probing the structure and in silico stability of cargo loaded DNA icosahedra using MD simulations. <i>Nanoscale</i> , 2017 , 9, 4467-4477	7.7	11
45	ATP as a biological hydrotrope. <i>Science</i> , 2017 , 356, 753-756	33.3	417
44	A novel type of quantum dot-transferrin conjugate using DNA hybridization mimics intracellular recycling of endogenous transferrin. <i>Nanoscale</i> , 2017 , 9, 15453-15460	7.7	6
43	A structural map of oncomiR-1 at single-nucleotide resolution. <i>Nucleic Acids Research</i> , 2017 , 45, 9694-9705	25.1	5
42	Cell-targetable DNA nanocapsules for spatiotemporal release of caged bioactive small molecules. <i>Nature Nanotechnology</i> , 2017 , 12, 1183-1189	28.7	77
41	High luminal chloride in the lysosome is critical for lysosome function. <i>ELife</i> , 2017 , 6,	8.9	62
40	Author response: High luminal chloride in the lysosome is critical for lysosome function 2017 ,		2
39	Quantum dot-loaded monofunctionalized DNA icosahedra for single-particle tracking of endocytic pathways. <i>Nature Nanotechnology</i> , 2016 , 11, 1112-1119	28.7	118
38	Nucleic Acid-Based Nanodevices in Biological Imaging. <i>Annual Review of Biochemistry</i> , 2016 , 85, 349-73	29.1	101

37	Rational design of a quantitative, pH-insensitive, nucleic acid based fluorescent chloride reporter. <i>Chemical Science</i> , 2016 , 7, 1946-1953	9.4	13
36	Voices of biotech. <i>Nature Biotechnology</i> , 2016 , 34, 270-5	44.5	3
35	A pH-independent DNA nanodevice for quantifying chloride transport in organelles of living cells. <i>Nature Nanotechnology</i> , 2015 , 10, 645-51	28.7	142
34	Designing DNA nanodevices for compatibility with the immune system of higher organisms. <i>Nature Nanotechnology</i> , 2015 , 10, 741-7	28.7	153
33	Tuning the pH Response of i-Motif DNA Oligonucleotides. <i>ChemBioChem</i> , 2015 , 16, 1647-56	3.8	40
32	Design of ultrasensitive DNA-based fluorescent pH sensitive nanodevices. <i>Nanoscale</i> , 2015 , 7, 10008-12	7.7	28
31	Fast, Efficient, and Stable Conjugation of Multiple DNA Strands on Colloidal Quantum Dots. <i>Bioconjugate Chemistry</i> , 2015 , 26, 1582-9	6.3	35
30	Recombinant antibody mediated delivery of organelle-specific DNA pH sensors along endocytic pathways. <i>Nanoscale</i> , 2014 , 6, 1144-52	7.7	27
29	At a long-awaited turning point. <i>Nature Nanotechnology</i> , 2014 , 9, 491-4	28.7	9
28	The predictive power of synthetic nucleic acid technologies in RNA biology. <i>Accounts of Chemical Research</i> , 2014 , 47, 1710-9	24.3	11
27	A fluorescent nucleic acid nanodevice quantitatively images elevated cyclic adenosine monophosphate in membrane-bound compartments. <i>Small</i> , 2014 , 10, 4276-80	11	14
26	A method to study in vivo stability of DNA nanostructures. <i>Methods</i> , 2013 , 64, 94-100	4.6	46
25	A method to map spatiotemporal pH changes in a multicellular living organism using a DNA nanosensor. <i>Methods in Molecular Biology</i> , 2013 , 991, 9-23	1.4	2
24	A method to encapsulate molecular cargo within DNA icosahedra. <i>Methods in Molecular Biology</i> , 2013 , 991, 65-80	1.4	4
23	Two DNA nanomachines map pH changes along intersecting endocytic pathways inside the same cell. <i>Nature Nanotechnology</i> , 2013 , 8, 459-67	28.7	271
22	Controlled release of encapsulated cargo from a DNA icosahedron using a chemical trigger. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6854-7	16.4	89
21	Controlled Release of Encapsulated Cargo from a DNA Icosahedron using a Chemical Trigger. <i>Angewandte Chemie</i> , 2013 , 125, 6992-6995	3.6	25
20	Pri-miR-17-92a transcript folds into a tertiary structure and autoregulates its processing. <i>Rna</i> , 2012 , 18, 1014-28	5.8	40

19	Designer nucleic acids to probe and program the cell. <i>Trends in Cell Biology</i> , 2012 , 22, 624-33	18.3	63
18	A synthetic icosahedral DNA-based host-cargo complex for functional in vivo imaging. <i>Nature Communications</i> , 2011 , 2, 339	17.4	187
17	An autonomous DNA nanomachine maps spatiotemporal pH changes in a multicellular living organism. <i>Nature Communications</i> , 2011 , 2, 340	17.4	193
16	Nukleinsäure-basierte molekulare Werkzeuge. <i>Angewandte Chemie</i> , 2011 , 123, 3180-3215	3.6	107
15	Nucleic acid based molecular devices. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3124-56	16.4	493
14	Synthetic, biofunctional nucleic acid-based molecular devices. <i>Current Opinion in Biotechnology</i> , 2011 , 22, 475-84	11.4	26
13	Structural DNA Nanotechnology: From Bases to Bricks, From Structure to Function. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1994-2005	6.4	52
12	pH-Toggled DNA architectures: reversible assembly of three-way junctions into extended 1D architectures through A-motif formation. <i>Small</i> , 2010 , 6, 1288-92	11	19
11	Icosahedral DNA nanocapsules by modular assembly. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4134-7	16.4	169
10	A DNA nanomachine that maps spatial and temporal pH changes inside living cells. <i>Nature Nanotechnology</i> , 2009 , 4, 325-30	28.7	603
9	The poly dA helix: a new structural motif for high performance DNA-based molecular switches. <i>Nucleic Acids Research</i> , 2009 , 37, 2810-7	20.1	100
8	Kinetic hybrid i-motifs: intercepting DNA with RNA to form a DNA(2)-RNA(2) i-motif. <i>Biochimie</i> , 2008 , 90, 1088-95	4.6	10
7	Combining G-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, 8682-9	4.8	48
6	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, 2646-9	16.4	42
5	The PNA-DNA hybrid I-motif: implications for sugar-sugar contacts in i-motif tetramerization. <i>Nucleic Acids Research</i> , 2006 , 34, 4354-63	20.1	39
4	First blueprint, now bricks: DNA as construction material on the nanoscale. <i>Chemical Society Reviews</i> , 2006 , 35, 1111-21	58.5	55
3	Organelle-level precision with next-generation targeting technologies. <i>Nature Reviews Materials</i> ,	73.3	14
2	Tubular lysosomes harbor active ion gradients and poise macrophages for phagocytosis		3

1 A DNA-based voltmeter for organelles

3