Janarthanan Jayawickramarajah

List of Publications by Year
in descending order

55 papers	2,237 citations	279798 23 h-index	214800 47 g-index
63 all docs	63 docs citations	63 times ranked	2911 citing authors

#	Article	IF	Citations
1	Functions of lncRNA HOTAIR in lung cancer. Journal of Hematology and Oncology, 2014, 7, 90.	17.0	351
2	Molecular recognition via base-pairing. Chemical Society Reviews, 2007, 36, 314-325.	38.1	293
3	Functionalized base-pairs: versatile scaffolds for self-assembly. Chemical Communications, 2005, , 1939.	4.1	145
4	Base-pairing mediated non-covalent polymers. Chemical Society Reviews, 2009, 38, 1608.	38.1	121
5	Synthesis and photophysics of a porphyrinâ€“fullerene dyad assembled through Watsonâ€“Crick hydrogen bonding. Chemical Communications, 2005, , 1892-1894.	4.1	114
6	Guanosine and fullerene derived de-aggregation of a new phthalocyanine-linked cytidine derivative. Tetrahedron, 2006, 62, 2123-2131.	1.9	93
7	Straightforward Self-Assembly of Porphyrin Nanowires in Water: Harnessing Adamantane/Î²-Cyclodextrin Interactions. Journal of the American Chemical Society, 2010, 132, 9966-9967.	13.7	83
8	Photophysical characterization of a cytidineâ€“guanosine tethered phthalocyanineâ€“fullerene dyad. Chemical Communications, 2007, , 292-294.	4.1	78
9	Hostâ€“Guest Tethered DNA Transducer: ATP Fueled Release of a Protein Inhibitor from Cucurbit[7]uril. Journal of the American Chemical Society, 2017, 139, 13916-13921.	13.7	72
10	Protein Recognition and Denaturation by Self-Assembling Fragments on a DNA Quadruplex Scaffold. Angewandte Chemie - International Edition, 2007, 46, 223-225.	13.8	57
11	Novel Guanosineâ^'Cytidine Dinucleoside that Self-Assembles into a Trimeric Supramolecule. Organic Letters, 2003, 5, 2627-2630.	4.6	55
12	Multivalent Protein Binding and Precipitation by Self-Assembling Molecules on a DNA Pentaplex Scaffold. Journal of the American Chemical Society, 2009, 131, 5020-5021.	13.7	55
13	DNA-Small Molecule Chimera with Responsive Protein-Binding Ability. Journal of the American Chemical Society, 2008, 130, 14950-14951.	13.7	38
14	Protein-Binding Molecular Switches via Hostâ€“Guest Stabilized DNA Hairpins. Journal of the American Chemical Society, 2011, 133, 7676-7679.	13.7	37
15	Water-soluble nanorods self-assembled via pristine C60 and porphyrin moieties. Chemical Communications, 2009, , 4209.	4.1	35
16	Elevated expression of long intergenic nonâ€coding RNA HOTAIR in a basalâ€like variant of MCFâ€7 breast cancer cells. Molecular Carcinogenesis, 2015, 54, 1656-1667.	2.7	35
17	Band-Selective Ballistic Energy Transport in Alkane Oligomers: Toward Controlling the Transport Speed. Journal of Physical Chemistry B, 2015, 119, 6448-6456.	2.6	34
18	Allosteric Control of Selfâ€Assembly: Modulating the Formation of Guanine Quadruplexes through Orthogonal Aromatic Interactions. Angewandte Chemie - International Edition, 2007, 46, 7583-7586.	13.8	33

#	Article	IF	Citations
19	Design, synthesis, and applications of DNAâ€“macrocyclic host conjugates. Chemical Communications, 2018, 54, 11668-11680.	4.1	32
20	Water-soluble porphyrin nanospheres: enhanced photo-physical properties achieved via cyclodextrin driven double self-inclusion. Chemical Communications, 2014, 50, 4853-4855.	4.1	29
21	Ballistic energy transport along PEG chains: distance dependence of the transport efficiency. Physical Chemistry Chemical Physics, 2012, 14, 10445.	2.8	26
22	Bright G-Quadruplex Nanostructures Functionalized with Porphyrin Lanterns. Journal of the American Chemical Society, 2019, 141, 12582-12591.	13.7	26
23	Room-temperature ballistic energy transport in molecules with repeating units. Journal of Chemical Physics, 2015, 142, 212412.	3.0	25
24	lincRNA HOTAIR as a Novel Promoter of Cancer Progression. Journal of Cancer Research Updates, 2014, 3, 134-140.	0.3	25
25	Chaperone-Assisted Hostâ€“Guest Interactions Revealed by Single-Molecule Force Spectroscopy. Journal of the American Chemical Society, 2019, 141, 18385-18389.	13.7	24
26	Examination of the Effect of the Annealing Cation on Higher Order Structures Containing Guanine or Isoguanine Repeats. Chemistry - A European Journal, 2009, 15, 11244-11255.	3.3	23
27	Enhancing Hoogsteen Interactions:â€‰ A Pyrrole-Containing Purine Nucleoside That Competes with Guanosine Self-Assembly. Journal of the American Chemical Society, 2004, 126, 11460-11461.	13.7	21
28	Photonic DNA-Chromophore Nanowire Networks: Harnessing Multiple Supramolecular Assembly Modes. Langmuir, 2013, 29, 10796-10806.	3.5	20
29	A naphthalimide derived fluorescent sensor for solid-phase screening of cucurbit[7]urilâ€“guest interactions. Chemical Communications, 2016, 52, 2307-2310.	4.1	20
30	ESI-MS characterization of a novel pyrroleâ€“inosine nucleoside that interacts with guanine bases. Analytica Chimica Acta, 2008, 627, 129-135.	5.4	19
31	Determination of polyethylene glycol end group functionalities by combination of selective reactions and characterization by matrix assisted laser desorption/ionization time-of-flight mass spectrometry. Analytica Chimica Acta, 2014, 816, 28-40.	5.4	17
32	Mild Two-Step Method to Construct DNA-Conjugated Silicon Nanoparticles: Scaffolds for the Detection of MicroRNA-21. Bioconjugate Chemistry, 2014, 25, 1739-1743.	3.6	16
33	Synthesis and Applications of Porphyrin-Biomacromolecule Conjugates. Frontiers in Chemistry, 2021, 9, 764137.	3.6	16
34	Configurational Isomers of a Stilbeneâ€Linked Bis(porphyrin) Tweezer: Synthesis and Fullereneâ€Binding Studies. European Journal of Organic Chemistry, 2009, 2009, 6095-6099.	2.4	15
35	Measurement of Single-Molecule Forces in Cholesterol and Cyclodextrin Hostâ€“Guest Complexes. Journal of Physical Chemistry B, 2021, 125, 11112-11121.	2.6	13
36	Molecular recognition and enhancement of aqueous solubility and bioactivity of CD437 by Î²-cyclodextrin. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 857-860.	2.2	12

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37	Hostâ€“Guest Interactions Derived Multilayer Perylene Diimide Thin Film Constructed on a Scaffolding Porphyrin Monolayer. Langmuir, 2015, 31, 578-586.	3.5	11
38	Structural Effects on Guest Binding in Cucurbit[8]urilâ€Perylenemonoimide Hostâ€Guest Complexes. ChemistrySelect, 2018, 3, 4699-4704.	1.5	11
39	Azido alkanes as convenient reporters for mobility within lipid membranes. Chemical Physics, 2018, 512, 20-26.	1.9	11
40	Ballistic Transport of Vibrational Energy through an Amide Group Bridging Alkyl Chains. Journal of Physical Chemistry C, 2019, 123, 3381-3392.	3.1	11
41	Increasing Student Interest and Self-Efficacy in STEM by Offering a Service-Learning Chemistry Course in New Orleans. Journal of Chemical Education, 2020, 97, 4008-4018.	2.3	11
42	Oligonucleotide-based systems for input-controlled and non-covalently regulated protein binding. Supramolecular Chemistry, 2013, 25, 848-862.	1.2	10
43	Energy and Electron Transfer in Supramolecular Systems. , 2004, , 535-545.		6
44	Protein recognition via oligonucleotide-linked small molecules: Utilisation of the hemin-binding aptamer. Supramolecular Chemistry, 2009, 21, 316-323.	1.2	6
45	Bile Acid Conjugated DNA Chimera that Conditionally Inhibits Carbonic Anhydrase-II in the Presence of MicroRNA-21. Bioconjugate Chemistry, 2015, 26, 1606-1612.	3.6	6
46	A stable bidentate protein binder achieved via DNA self-assembly driven ligand migration. Chemical Communications, 2015, 51, 13615-13618.	4.1	4
47	Covalent and Non-Covalent Porphyrin-DNA Conjugates. , 2016, , 51-81.		3
48	Structure/Function Analysis of Truncated Amino-Terminal ACE2 Peptide Analogs That Bind to SARS-CoV-2 Spike Glycoprotein. Molecules, 2022, 27, 2070.	3.8	3
49	Volume 5: Supramolecular Medicinal Chemistry and Chemical Biology. , 2017, , 1.		2
50	Functionalized Base-Pairs: Versatile Scaffolds for Self-Assembly. ChemInform, 2005, 36, no.	0.0	1
51	Volume 4: Bioinspired and Biomimetic Supramolecular Chemistry. , 2017, , 1.		1
52	Competition of Several Energy-Transport Initiation Mechanisms Defines the Ballistic Transport Speed. Journal of Physical Chemistry B, 2021, 125, 7546-7555.	2.6	1
53	Nanoparticle encapsulation of non-genotoxic p53 activator Inauhzin-C for improved therapeutic efficacy. Theranostics, 2021, 11, 7005-7017.	10.0	1
54	Flavin Binding Allosteric Aptamer with Noncovalent Labeling for miR Sensing. Bioconjugate Chemistry, 2019, 30, 2822-2827.	3.6	0

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55	Editorial: Supramolecular Nucleic Acid Chemistry. Frontiers in Chemistry, 2020, 8, 749.	3.6	0