Stuart Lindsay

List of Publications by Year
in descending order

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52 papers	4,778 citations	218677 26 h-index	175258 52 g-index
54 all docs	54 docs citations	54 times ranked	5079 citing authors

#	Article	IF	Citations
1	Electronic Transport in Molecular Wires of Precisely Controlled Length Built from Modular Proteins. ACS Nano, 2022, 16, 1671-1680.	14.6	20
2	Measuring conductance switching in single proteins using quantum tunneling. Science Advances, 2022, 8, eabm8149.	10.3	18
3	The emerging landscape of single-molecule protein sequencing technologies. Nature Methods, 2021, 18, 604-617.	19.0	198
4	Probing Bioelectronic Connections Using Streptavidin Molecules with Modified Valency. Journal of the American Chemical Society, 2021, 143, 15139-15144.	13.7	8
5	Engineering an Enzyme for Direct Electrical Monitoring of Activity. ACS Nano, 2020, 14, 1360-1368.	14.6	21
6	Moving Electrons Purposefully through Single Molecules and Nanostructures: A Tribute to the Science of Professor Nongjian Tao (1963â€“2020). ACS Nano, 2020, 14, 12291-12312.	14.6	2
7	Electronic Conductance Resonance in Non-Redox-Active Proteins. Journal of the American Chemical Society, 2020, 142, 6432-6438.	13.7	37
8	Ubiquitous Electron Transport in Non-Electron Transfer Proteins. Life, 2020, 10, 72.	2.4	26
9	Single Molecule Identification and Quantification of Glycosaminoglycans Using Solid-State Nanopores. ACS Nano, 2019, 13, 6308-6318.	14.6	53
10	Electronic Decay Length in a Protein Molecule. Nano Letters, 2019, 19, 4017-4022.	9.1	26
11	Role of contacts in long-range protein conductance. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5886-5891.	7.1	67
12	SIR proteins create compact heterochromatin fibers. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12447-12452.	7.1	17
13	A Y-Shaped Three-Arm Structure for Probing Bivalent Interactions between Protein Receptorâ€“Ligand Using AFM and SPR. Langmuir, 2018, 34, 6930-6940.	3.5	3
14	Recognition Tunneling of Canonical and Modified RNA Nucleotides for Their Identification with the Aid of Machine Learning. ACS Nano, 2018, 12, 7067-7075.	14.6	23
15	Observation of giant conductance fluctuations in a protein. Nano Futures, 2017, 1, 035002.	2.2	27
16	Correlating confocal microscopy and atomic force indentation reveals metastatic cancer cells stiffen during invasion into collagen I matrices. Scientific Reports, 2016, 6, 19686.	3.3	123
17	Electronic single-molecule identification of carbohydrate isomers by recognition tunnelling. Nature Communications, 2016, 7, 13868.	12.8	42
18	Recent Progress in Molecular Recognition Imaging Using Atomic Force Microscopy. Accounts of Chemical Research, 2016, 49, 503-510.	15.6	55

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19	Universal Readers Based on Hydrogen Bonding or Ï€â€“Ï€ Stacking for Identification of DNA Nucleotides in Electron Tunnel Junctions. ACS Nano, 2016, 10, 11304-11316.	14.6	27
20	The promises and challenges of solid-state sequencing. Nature Nanotechnology, 2016, 11, 109-111.	31.5	71
21	Comparison of Ensemble and Single Molecule Methods for Particle Characterization and Binding Analysis of a PEGylated Single-Domain Antibody. Journal of Pharmaceutical Sciences, 2015, 104, 4015-4024.	3.3	2
22	A Three-Arm Scaffold Carrying Affinity Molecules for Multiplex Recognition Imaging by Atomic Force Microscopy: The Synthesis, Attachment to Silicon Tips, and Detection of Proteins. Journal of the American Chemical Society, 2015, 137, 7415-7423.	13.7	12
23	Physical model for recognition tunneling. Nanotechnology, 2015, 26, 084001.	2.6	27
24	Click Addition of a DNA Thread to the N-Termini of Peptides for Their Translocation through Solid-State Nanopores. ACS Nano, 2015, 9, 9652-9664.	14.6	16
25	Single-molecule spectroscopy of amino acids and peptides by recognition tunnelling. Nature Nanotechnology, 2014, 9, 466-473.	31.5	207
26	Fixed-Gap Tunnel Junction for Reading DNA Nucleotides. ACS Nano, 2014, 8, 11994-12003.	14.6	48
27	Solution-state conformation and stoichiometry of yeast Sir3 heterochromatin fibres. Nature Communications, 2014, 5, 4751.	12.8	19
28	On-chip isotachophoresis separation of functional DNA origami capture nanoarrays from cell lysate. Nano Research, 2013, 6, 712-719.	10.4	18
29	Application of Catalyst-Free Click Reactions in Attaching Affinity Molecules to Tips of Atomic Force Microscopy for Detection of Protein Biomarkers. Langmuir, 2013, 29, 14622-14630.	3.5	32
30	Slowing DNA Translocation through a Nanopore Using a Functionalized Electrode. ACS Nano, 2013, 7, 10319-10326.	14.6	44
31	Insulated gold scanning tunneling microscopy probes for recognition tunneling in an aqueous environment. Review of Scientific Instruments, 2012, 83, 015102.	1.3	31
32	Palladium electrodes for molecular tunnel junctions. Nanotechnology, 2012, 23, 425202.	2.6	14
33	Biochemistry and semiconductor electronicsâ€”the next big hit for silicon?. Journal of Physics Condensed Matter, 2012, 24, 164201.	1.8	10
34	1,8-Naphthyridine-2,7-diamine: a potential universal reader of Watsonâ€“Crick base pairs for DNA sequencing by electron tunneling. Organic and Biomolecular Chemistry, 2012, 10, 8654.	2.8	13
35	Chemical recognition and binding kinetics in a functionalized tunnel junction. Nanotechnology, 2012, 23, 235101.	2.6	29
36	Long Lifetime of Hydrogen-Bonded DNA Basepairs by Force Spectroscopy. Biophysical Journal, 2012, 102, 2381-2390.	0.5	19

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37	Synthesis, Physicochemical Properties, and Hydrogen Bonding of 4(5)â€Substituted 1â€Hâ€Imidazoleâ€2â€carboxamide, a Potential Universal Reader for DNA Sequencing by Recognition Tunneling. Chemistry - A European Journal, 2012, 18, 5998-6007.	3.3	28
38	Gap Distance and Interactions in a Molecular Tunnel Junction. Journal of the American Chemical Society, 2011, 133, 14267-14269.	13.7	37
39	Identifying single bases in a DNA oligomer with electron tunnelling. Nature Nanotechnology, 2010, 5, 868-873.	31.5	260
40	Recognition tunneling. Nanotechnology, 2010, 21, 262001.	2.6	70
41	Electronic Signatures of all Four DNA Nucleosides in a Tunneling Gap. Nano Letters, 2010, 10, 1070-1075.	9.1	167
42	The potential and challenges of nanopore sequencing. , 2009, , 261-268.		23
43	An AFM/Rotaxane Molecular Reading Head for Sequenceâ€Dependent DNA Structures. Small, 2008, 4, 1468-1475.	10.0	21
44	The potential and challenges of nanopore sequencing. Nature Biotechnology, 2008, 26, 1146-1153.	17.5	2,201
45	Charge transport in mesoscopic conducting polymer wires. Journal of Physics Condensed Matter, 2008, 20, 374120.	1.8	8
46	Length dependence of charge transport in oligoanilines. Applied Physics Letters, 2007, 90, 072112.	3.3	27
47	Chromatin Control of Gene Expression: The Simplest Model. Biophysical Journal, 2007, 92, 1113.	0.5	7
48	Molecular wires and devices: Advances and issues. Faraday Discussions, 2006, 131, 403-409.	3.2	46
49	Measuring single molecule conductance with break junctions. Faraday Discussions, 2006, 131, 145-154.	3.2	94
50	Redox-gated electron transport in electrically wired ferrocene molecules. Chemical Physics, 2006, 326, 138-143.	1.9	109
51	Single-Molecule Electronic Measurements with Metal Electrodes. Journal of Chemical Education, 2005, 82, 727.	2.3	18
52	A Molecular Switch Based on Potential-Induced Changes of Oxidation State. Nano Letters, 2005, 5, 503-506.	9.1	256