

# Scott L Cockroft

## List of Publications by Citations

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

68

papers

3,739

citations

28

h-index

61

g-index

73

ext. papers

4,263

ext. citations

12.6

avg, IF

5.78

L-index

#	Paper	IF	Citations
68	The influence of nonspecific microsomal binding on apparent intrinsic clearance, and its prediction from physicochemical properties. <i>Drug Metabolism and Disposition</i> , <b>2002</b> , 30, 1497-503	4	310
67	The Origin of Chalcogen-Bonding Interactions. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 15160-15167	16.4	267
66	Electrostatic control of aromatic stacking interactions. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 8594-5	17.6	243
65	Transcription forms and remodels supercoiling domains unfolding large-scale chromatin structures. <i>Nature Structural and Molecular Biology</i> , <b>2013</b> , 20, 387-95	16.4	225
64	Modular multi-level circuits from immobilized DNA-based logic gates. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 14875-9	58.5	224
63	Chemical double-mutant cycles: dissecting non-covalent interactions. <i>Chemical Society Reviews</i> , <b>2007</b> , 36, 172-88	38.0	204
62	Substituent effects on aromatic stacking interactions. <i>Organic and Biomolecular Chemistry</i> , <b>2007</b> , 5, 1062-3	17.6	197
61	How much do van der Waals dispersion forces contribute to molecular recognition in solution?. <i>Nature Chemistry</i> , <b>2013</b> , 5, 1006-10	16.4	190
60	A single-molecule nanopore device detects DNA polymerase activity with single-nucleotide resolution. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 818-20	48.5	160
59	Molecular balances for quantifying non-covalent interactions. <i>Chemical Society Reviews</i> , <b>2010</b> , 39, 4195-205	5.8	101
58	Desolvation tips the balance: solvent effects on aromatic interactions. <i>Chemical Communications</i> , <b>2006</b> , 3806-8	58.5	92
57	Man-made molecular machines: membrane bound. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 6118-6129	16.4	73
56	Quantifying Solvophobic Effects in Nonpolar Cohesive Interactions. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 10084-7	16.4	68
55	Can Dispersion Forces Govern Aromatic Stacking in an Organic Solvent?. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 912-6	3.8	67
54	Biological nanopores for single-molecule biophysics. <i>ChemBioChem</i> , <b>2010</b> , 11, 25-34	16.4	65
53	The Importance of 1,5-Oxygen-Chalcogen Interactions in Enantioselective Isochalcogenourea Catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 3705-3710	16.4	64
52	Partitioning solvophobic and dispersion forces in alkyl and perfluoroalkyl cohesion. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 1164-7		

51	Length-Dependent Formation of Transmembrane Pores by 310-Helical $\alpha$ -Aminoisobutyric Acid Foldamers. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 688-95	16.4	62
50	A 1H NMR study of crystal nucleation in solution. <i>CrystEngComm</i> , <b>2004</b> , 6, 489	3.3	59
49	Desolvation and substituent effects in edge-to-face aromatic interactions. <i>Chemical Communications</i> , <b>2009</b> , 3961-3	5.8	52
48	Experimental measurement of noncovalent interactions between halogens and aromatic rings. <i>ChemBioChem</i> , <b>2004</b> , 5, 657-65	3.8	48
47	Real-time monitoring of DNA polymerase function and stepwise single-nucleotide DNA strand translocation through a protein nanopore. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 10106-9	16.4	42
46	Electrostatic modulation of aromatic rings via explicit solvation of substituents. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 9976-9	16.4	41
45	The Energetic Significance of Metallophilic Interactions. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 12617-12623	16.4	40
44	Seeing through solvent effects using molecular balances. <i>Chemical Science</i> , <b>2013</b> , 4, 3965	9.4	39
43	Aromatic reactivity revealed: beyond resonance theory and frontier orbitals. <i>Chemical Science</i> , <b>2013</b> , 4, 1772	9.4	35
42	Palladium(II)-mediated assembly of biotinylated ion channels. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 3465-73	4.8	35
41	Strong Short-Range Cooperativity in Hydrogen-Bond Chains. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 7658-7662	16.4	31
40	Can Dispersion Forces Govern Aromatic Stacking in an Organic Solvent?. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 924-928	3.6	28
39	The Importance of 1,5-Oxygen-Chalcogen Interactions in Enantioselective Isochalcogenourea Catalysis. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 3734-3739	3.6	28
38	Partitioning Solvophobic and Dispersion Forces in Alkyl and Perfluoroalkyl Cohesion. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 1180-1183	3.6	24
37	High-throughput RNA structure probing reveals critical folding events during early 60S ribosome assembly in yeast. <i>Nature Communications</i> , <b>2017</b> , 8, 714	17.4	23
36	The Limit of Intramolecular H-Bonding. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 15114-15117	16.4	23
35	Transmembrane Ion Channels Formed by a Star of David [2]Catenane and a Molecular Pentafoil Knot. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 18859-18865	16.4	23
34	Defocused Imaging of UV-Driven Surface-Bound Molecular Motors. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 7156-7159	16.4	21

33	In Situ Synthetic Functionalization of a Transmembrane Protein Nanopore. <i>ACS Nano</i> , <b>2018</b> , 12, 786-794	16.7	19
32	Switchable foldamer ion channels with antibacterial activity. <i>Chemical Science</i> , <b>2020</b> , 11, 7023-7030	9.4	18
31	Synthetically Diversified Protein Nanopores: Resolving Click Reaction Mechanisms. <i>ACS Nano</i> , <b>2019</b> , 13, 4101-4110	16.7	17
30	Discrimination of supramolecular chirality using a protein nanopore. <i>Chemical Science</i> , <b>2017</b> , 8, 5005-5009	9.4	14
29	Reconciling Electrostatic and $n \rightarrow \pi^*$ Orbital Contributions in Carbonyl Interactions. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 14602-14608	16.4	14
28	Quantifying Through-Space Substituent Effects. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 16717-16724	16.4	14
27	An RNA-dependent mechanism for transient expression of bacterial translocation filaments. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, 3366-3381	20.1	14
26	Simultaneous G-Quadruplex DNA Logic. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 4820-4824	4.8	14
25	Can non-polar hydrogen atoms accept hydrogen bonds?. <i>Chemical Communications</i> , <b>2014</b> , 50, 5212-4	5.8	13
24	An Autonomously Reciprocating Transmembrane Nanoactuator. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 1345-9	16.4	13
23	The Role of Terminal Functionality in the Membrane and Antibacterial Activity of Peptaibol-Mimetic Aib Foldamers. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 2249-2256	4.8	13
22	Nanopore Detection of Single-Molecule Binding within a Metallosupramolecular Cage. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 4542-4546	4.8	12
21	Electrostatic Forces in Field-Perturbed Equilibria: Nanopore Analysis of Cage Complexes. <i>Chem</i> , <b>2019</b> , 5, 1275-1292	16.2	11
20	Reversible Reductive Elimination in Aluminum(II) Dihydrides. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 2047-2052	16.4	11
19	Screening Solvent Effects in Anion Recognition. <i>Chem</i> , <b>2017</b> , 3, 383-384	16.2	9
18	Strong Short-Range Cooperativity in Hydrogen-Bond Chains. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 7766-7770	3.6	8
17	The Energetic Significance of Metallophilic Interactions. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 12747-12753	3.6	7
16	Structural evidence for the covalent modification of FabH by 4,5-dichloro-1,2-dithiol-3-one (HR45). <i>Organic and Biomolecular Chemistry</i> , <b>2017</b> , 15, 6310-6313	3.9	6

15	Quantifying Interactions and Solvent Effects Using Molecular Balances and Model Complexes. <i>Accounts of Chemical Research</i> , <b>2021</b> , 54, 92-103	24.3	6
14	Transmembrane Signalling: Membrane messengers. <i>Nature Chemistry</i> , <b>2017</b> , 9, 406-407	17.6	5
13	Reversible stimuli-responsive chromism of a cyclometallated platinum(II) complex. <i>Chemical Communications</i> , <b>2020</b> , 56, 14705-14708	5.8	5
12	An Autonomously Reciprocating Transmembrane Nanoactuator. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 1367-1371	3.7	4
11	Real-Time Monitoring of DNA Polymerase Function and Stepwise Single-Nucleotide DNA Strand Translocation through a Protein Nanopore. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 10304-10307	3.6	4
10	Effect of solvent polarizability on the assembly and ordering of nanoscale polyhedral oligomeric silsesquioxane films. <i>Langmuir</i> , <b>2014</b> , 30, 196-202	4	3
9	Reversible Reductive Elimination in Aluminum(II) Dihydrides. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 2075-2080	3.6	3
8	DNA modulates solvent isotope effects in a nanopore. <i>Chemical Communications</i> , <b>2015</b> , 51, 12243-6	5.8	2
7	Conformational enhancement of fidelity in toehold-sequestered DNA nanodevices. <i>Chemical Communications</i> , <b>2020</b> , 56, 5135-5138	5.8	2
6	Functionalised nanopores: chemical and biological modifications.. <i>Chemical Science</i> , <b>2022</b> , 13, 1869-1882	9.4	2
5	Reconciling Electrostatic and n- $\pi$ Orbital Contributions in Carbonyl Interactions. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 14710-14716	3.6	1
4	Dissecting Solvent Effects on Hydrogen Bonding. <i>Angewandte Chemie - International Edition</i> ,	16.4	1
3	Quantifying Through-Space Substituent Effects. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 16860	3.6	
2	Highlights from the 43rd EUCHEM Conference on Stereochemistry, Bègenstock, Switzerland, April 2008. <i>Chemical Communications</i> , <b>2008</b> , 6441	5.8	
1	Strand Displacement in DNA-Based Nanodevices and Logic <b>2021</b> , 265-292		