

# Stephen Boulton

## List of Publications by Year in descending order

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33  
papers

713  
citations

566801

15  
h-index

580395

25  
g-index

34  
all docs

34  
docs citations

34  
times ranked

1086  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biochemical and Pharmacological Characterizations of ESI-09 Based EPAC Inhibitors: Defining the ESI-09 "Therapeutic Window". Scientific Reports, 2015, 5, 9344.	1.6	90
2	Advances in NMR Methods To Map Allosteric Sites: From Models to Translation. Chemical Reviews, 2016, 116, 6267-6304.	23.0	76
3	A Mechanism for the Auto-inhibition of Hyperpolarization-activated Cyclic Nucleotide-gated (HCN) Channel Opening and Its Relief by cAMP. Journal of Biological Chemistry, 2014, 289, 22205-22220.	1.6	67
4	A Tool Set to Map Allosteric Networks through the NMR Chemical Shift Covariance Analysis. Scientific Reports, 2014, 4, 7306.	1.6	62
5	Atomic resolution map of the soluble amyloid beta assembly toxic surfaces. Chemical Science, 2019, 10, 6072-6082.	3.7	48
6	Mechanism of Selective Enzyme Inhibition through Uncompetitive Regulation of an Allosteric Agonist. Journal of the American Chemical Society, 2018, 140, 9624-9637.	6.6	28
7	Characterization of Critical Determinants of ACE2-SARS CoV-2 RBD Interaction. International Journal of Molecular Sciences, 2021, 22, 2268.	1.8	24
8	Mechanisms of Specific versus Nonspecific Interactions of Aggregation-Prone Inhibitors and Attenuators. Journal of Medicinal Chemistry, 2019, 62, 5063-5079.	2.9	21
9	SARS-CoV-2 S1 NanoBIT: A nanoluciferase complementation-based biosensor to rapidly probe SARS-CoV-2 receptor recognition. Biosensors and Bioelectronics, 2021, 180, 113122.	5.3	21
10	Implications for SARS-CoV-2 Vaccine Design: Fusion of Spike Glycoprotein Transmembrane Domain to Receptor-Binding Domain Induces Trimerization. Membranes, 2020, 10, 215.	1.4	20
11	Implementation of the NMR CHEmical Shift Covariance Analysis (CHESCA): A Chemical Biologist's Approach to Allostery. Methods in Molecular Biology, 2018, 1688, 391-405.	0.4	20
12	Nanoluciferase complementation-based bioreporter reveals the importance of N-linked glycosylation of SARS-CoV-2 S for viral entry. Molecular Therapy, 2021, 29, 1984-2000.	3.7	19
13	Free energy landscape remodeling of the cardiac pacemaker channel explains the molecular basis of familial sinus bradycardia. Journal of Biological Chemistry, 2017, 292, 6414-6428.	1.6	18
14	Recent Advances in EPAC-Targeted Therapies: A Biophysical Perspective. Cells, 2019, 8, 1462.	1.8	18
15	"AND" logic gates at work: Crystal structure of Rad53 bound to Dbf4 and Cdc7. Scientific Reports, 2016, 6, 34237.	1.6	17
16	Tapping the translation potential of cAMP signalling: molecular basis for selectivity in cAMP agonism and antagonism as revealed by NMR. Biochemical Society Transactions, 2014, 42, 302-307.	1.6	16
17	Allosteric linkers in cAMP signalling. Biochemical Society Transactions, 2014, 42, 139-144.	1.6	16
18	Single-dose replicating poxvirus vector-based RBD vaccine drives robust humoral and T cell immune response against SARS-CoV-2 infection. Molecular Therapy, 2022, 30, 1885-1896.	3.7	16

#	ARTICLE	IF	CITATIONS
19	Mechanism of Action of an EPAC1-Selective Competitive Partial Agonist. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 4762-4775.	2.9	15
20	Engineering vaccinia virus as an immunotherapeutic battleship to overcome tumor heterogeneity. <i>Expert Opinion on Biological Therapy</i> , 2020, 20, 1083-1097.	1.4	15
21	Hippo Signaling Pathway as a Central Mediator of Receptors Tyrosine Kinases (RTKs) in Tumorigenesis. <i>Cancers</i> , 2020, 12, 2042.	1.7	14
22	CHESPA/CHESCA-SPARKY: automated NMR data analysis plugins for SPARKY to map protein allostery. <i>Bioinformatics</i> , 2021, 37, 1176-1177.	1.8	12
23	Allosteric Mechanisms of Nonadditive Substituent Contributions to Protein-Ligand Binding. <i>Biophysical Journal</i> , 2020, 119, 1135-1146.	0.2	11
24	Distinct surfaces on Cdc5/PLK Polo-box domain orchestrate combinatorial substrate recognition during cell division. <i>Scientific Reports</i> , 2020, 10, 3379.	1.6	9
25	Noncanonical protein kinase A activation by oligomerization of regulatory subunits as revealed by inherited Carney complex mutations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	8
26	Lipid binding protein response to a bile acid library: a combined NMR and statistical approach. <i>FEBS Journal</i> , 2015, 282, 4094-4113.	2.2	6
27	Direct binding and internalization of diverse extracellular nucleic acid species through the collagenous domain of class A scavenger receptors. <i>Immunology and Cell Biology</i> , 2018, 96, 922-934.	1.0	6
28	Mutual Protein-Ligand Conformational Selection Drives cGMP vs. cAMP Selectivity in Protein Kinase G. <i>Journal of Molecular Biology</i> , 2021, 433, 167202.	2.0	6
29	A Highly Dynamic Loop of the <i>Pseudomonas aeruginosa</i> PA14 Type IV Pilin Is Essential for Pilus Assembly. <i>ACS Infectious Diseases</i> , 2018, 4, 936-943.	1.8	5
30	Identification of FDA-approved Bifonazole as SARS-CoV-2 blocking agent following a bioreporter drug screen. <i>Molecular Therapy</i> , 2022, , .	3.7	5
31	A Tool Set to Map Dynamic Allosteric Networks through the NMR Chemical Shift Covariance Analysis (CHESCA). <i>Biophysical Journal</i> , 2015, 108, 60a.	0.2	0
32	A tribute to Alexander Davidson Bain: An NMR pioneer and mentor at McMaster University. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2016, 45A, e21418.	0.2	0
33	Non-Classical Protein Kinase a Activation by Aggregation of the PKA R-Subunits as a Mechanism of Inherited Carney Complex Mutations. <i>Biophysical Journal</i> , 2021, 120, 200a.	0.2	0