Brian C Smith

List of Publications by Year
in descending order

68 papers	3,778 citations	218677 26 h-index	197818 49 g-index
74 all docs	74 docs citations	74 times ranked	5230 citing authors

#	Article	IF	Citations
1	Oral and Inhaled Fosamprenavir Reverses Pepsinâ€induced Damage in a Laryngopharyngeal Reflux Mouse Model. Laryngoscope, 2023, 133, .	2.0	4
2	Computational modeling reveals key molecular properties and dynamic behavior of disruptor of telomeric silencing 1â€like (DOT1L) and partnering complexes involved in leukemogenesis. Proteins: Structure, Function and Bioinformatics, 2022, 90, 282-298.	2.6	3
3	Chemical Regulation of the Protein Quality Control E3 Ubiquitin Ligase Câ€Terminus of Hsc70 Interacting Protein (CHIP). ChemBioChem, 2022, , .	2.6	1
4	Structural bioinformatics enhances the interpretation of somatic mutations in KDM6A found in human cancers. Computational and Structural Biotechnology Journal, 2022, 20, 2200-2211.	4.1	5
5	Defining the Mutational Landscape That Affects the Histone Demethylase KDM6A/UTX in Human Cancer. FASEB Journal, 2022, 36, .	0.5	0
6	Zincâ€Chelating BET Bromodomain Inhibitors Selectively Accumulate and Affect Gene Expression in Pancreatic Î²â€Cells. FASEB Journal, 2022, 36, .	0.5	0
7	Polybromoâ€1 missense mutations found in renal cancer patients affect bromodomain stability and biological function. FASEB Journal, 2022, 36, .	0.5	0
8	Integrative Modeling, Molecular Mechanics, and Molecular Dynamics Evaluation of Genomics Variants in KMT2C (MLL3), a Gene Involved in Kleefstra Syndrome Type 2. FASEB Journal, 2022, 36, .	0.5	1
9	Characterization of Novel A ₃ Adenosine Receptor Allosteric Modulators. FASEB Journal, 2022, 36, .	0.5	0
10	Characterization of Dual-Acting A₃ Adenosine Receptor Positive Allosteric Modulators That Preferentially Enhance Adenosine-Induced Gαi_{i3} and Gαi_{oA} Isoprotein Activation. ACS Pharmacology and Translational Science, 2022, 5, 625-641.	4.9	8
11	Molecular mechanics and dynamic simulations of well-known Kabuki syndrome-associated KDM6A variants reveal putative mechanisms of dysfunction. Orphanet Journal of Rare Diseases, 2021, 16, 66.	2.7	11
12	BET Bromodomain Inhibition Results in the Conserved Upregulation of Sirtuin 1. FASEB Journal, 2021, 35, .	0.5	0
13	Discovering and Exploiting Selectivity in Bromodomain Recognition of Epigenetic Lysine Acylation. FASEB Journal, 2021, 35, .	0.5	0
14	Molecular dockingâ€guided synthesis of NSAIDâ€“glucosamine bioconjugates and their evaluation as COXâ€1/COXâ€2 inhibitors with potentially reduced gastric toxicity. Chemical Biology and Drug Design, 2021, 98, 102-113.	3.2	7
15	BET bromodomain inhibitors diminish ILâ€1Bâ€induced transcription of NFâ€ºB target genes. FASEB Journal, 2021, 35, .	0.5	0
16	Trisubstituted 1,3,5-Triazines: The First Ligands of the sY12-Binding Pocket on Chemokine CXCL12. ACS Medicinal Chemistry Letters, 2021, 12, 1773-1782.	2.8	4
17	Sirtuin Oxidative Post-translational Modifications. Frontiers in Physiology, 2021, 12, 763417.	2.8	6
18	Cysteine sulfenylation by CD36 signaling promotes arterial thrombosis in dyslipidemia. Blood Advances, 2020, 4, 4494-4507.	5.2	20

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19	Development of activity-based probes for the protein deacylase Sirt1. Bioorganic Chemistry, 2020, 104, 104232.	4.1	7
20	Human sirtuins are differentially sensitive to inhibition by nitrosating agents and other cysteine oxidants. Journal of Biological Chemistry, 2020, 295, 8524-8536.	3.4	17
21	ICEKAT: an interactive online tool for calculating initial rates from continuous enzyme kinetic traces. BMC Bioinformatics, 2020, 21, 186.	2.6	29
22	Covalent-Fragment Screening of BRD4 Identifies a Ligandable Site Orthogonal to the Acetyl-Lysine Binding Sites. ACS Chemical Biology, 2020, 15, 1036-1049.	3.4	32
23	Validation and Characterization of Five Distinct Novel Inhibitors of Human Cytomegalovirus. Journal of Medicinal Chemistry, 2020, 63, 3896-3907.	6.4	8
24	2131-P: BET Bromodomain Inhibition Upregulates SIRT1 In Pancreatic ÃŸ-Cells. Diabetes, 2020, 69, 2131-P.	0.6	0
25	2117-P: BET Bromodomain Inhibitors Mitigate Cytokine-Induced Transcription in ÃŸ-Cells via Inhibition of Nf-Î²B. Diabetes, 2020, 69, 2117-P.	0.6	0
26	Mitochondrial Metabolic Reprogramming by CD36 Signaling Drives Macrophage Inflammatory Responses. Circulation Research, 2019, 125, 1087-1102.	4.5	114
27	Non-sedating benzodiazepines cause paralysis and tissue damage in the parasitic blood fluke Schistosoma mansoni. PLoS Neglected Tropical Diseases, 2019, 13, e0007826.	3.0	5
28	Protein Cysteine Sulfenylation By CD36-Dependent Reactive Oxygen Species Signaling Promotes Platelet Activation. Blood, 2019, 134, 2338-2338.	1.4	0
29	Title is missing!. , 2019, 13, e0007826.		0
30	Title is missing!. , 2019, 13, e0007826.		0
31	Title is missing!. , 2019, 13, e0007826.		0
32	Title is missing!. , 2019, 13, e0007826.		0
33	Calmodulin-induced Conformational Control and Allostery Underlying Neuronal Nitric Oxide Synthase Activation. Journal of Molecular Biology, 2018, 430, 935-947.	4.2	14
34	Comparative and integrative metabolomics reveal that S-nitrosation inhibits physiologically relevant metabolic enzymes. Journal of Biological Chemistry, 2018, 293, 6282-6296.	3.4	14
35	Nitric oxide antagonism to glioblastoma photodynamic therapy and mitigation thereof by BET bromodomain inhibitor JQ1. Journal of Biological Chemistry, 2018, 293, 5345-5359.	3.4	36
36	Development and Validation of 2D Difference Intensity Analysis for Chemical Library Screening by Proteinâ€Detected NMR Spectroscopy. ChemBioChem, 2018, 19, 448-458.	2.6	13

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37	Development of a Molecular Probe Targeting Mitochondrial Fission Protein Fis1. FASEB Journal, 2018, 32, 530.17.	0.5	0
38	Discovering and Exploiting Selectivity in BET Tandem Bromodomain Recognition of Epigenetic Lysine Acylation. FASEB Journal, 2018, 32, 524.15.	0.5	0
39	Metabolically Derived Lysine Acylations and Neighboring Modifications Tune the Binding of the BET Bromodomains to Histone H4. Biochemistry, 2017, 56, 5485-5495.	2.5	21
40	Nitrosothiol formation and S-nitrosation signaling through nitric oxide synthases. Nitric Oxide - Biology and Chemistry, 2017, 63, 52-60.	2.7	51
41	Mechanism of Sirt1 NAD+-dependent Protein Deacetylase Inhibition by Cysteine S-Nitrosation. Journal of Biological Chemistry, 2016, 291, 25398-25410.	3.4	38
42	Chemoproteomic Strategy to Quantitatively Monitor Transnitrosation Uncovers Functionally Relevant S -Nitrosation Sites on Cathepsin D and HADH2. Cell Chemical Biology, 2016, 23, 727-737.	5.2	41
43	Truncating Mutation in the Nitric Oxide Synthase 1 Gene Is Associated With Infantile Achalasia. Gastroenterology, 2015, 148, 533-536.e4.	1.3	37
44	Nitric Oxide Mediates Biofilm Formation and Symbiosis in Silicibacter sp. Strain TrichCH4B. MBio, 2015, 6, e00206-15.	4.1	32
45	Reply. Gastroenterology, 2015, 149, 261-262.	1.3	0
46	Molecular architecture of mammalian nitric oxide synthases. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3614-23.	7.1	91
47	Nitric oxide synthase domain interfaces regulate electron transfer and calmodulin activation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3577-86.	7.1	84
48	Mechanisms of S-nitrosothiol formation and selectivity in nitric oxide signaling. Current Opinion in Chemical Biology, 2012, 16, 498-506.	6.1	228
49	Structural and Kinetic Isotope Effect Studies of Nicotinamidase (Pnc1) from Saccharomyces cerevisiae. Biochemistry, 2012, 51, 243-256.	2.5	18
50	Mechanism and Kinetics of Inducible Nitric Oxide Synthase Auto-S-nitrosation and Inactivation. Biochemistry, 2012, 51, 1028-1040.	2.5	34
51	SIRT3 Substrate Specificity Determined by Peptide Arrays and Machine Learning. ACS Chemical Biology, 2011, 6, 146-157.	3.4	65
52	Sirt3 Promotes the Urea Cycle and Fatty Acid Oxidation during Dietary Restriction. Molecular Cell, 2011, 41, 139-149.	9.7	344
53	Hydrolysis of O-Acetyl-ADP-ribose Isomers by ADP-ribosylhydrolase 3. Journal of Biological Chemistry, 2011, 286, 21110-21117.	3.4	44
54	Sirtuins regulate metabolic adaptation to energy status. FASEB Journal, 2010, 24, 198.1.	0.5	0

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55	SIRT3 Promotes the Urea Cycle by Deacetylating Ornithine Transcarbamoylase. FASEB Journal, 2010, 24, 662.3.	0.5	0
56	A continuous microplate assay for sirtuins and nicotinamide-producing enzymes. Analytical Biochemistry, 2009, 394, 101-109.	2.4	125
57	Ure(k)a! Sirtuins Regulate Mitochondria. Cell, 2009, 137, 404-406.	28.9	17
58	Chemical mechanisms of histone lysine and arginine modifications. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2009, 1789, 45-57.	1.9	314
59	Mechanisms and Molecular Probes of Sirtuins. Chemistry and Biology, 2008, 15, 1002-1013.	6.0	125
60	Acetyl-lysine Analog Peptides as Mechanistic Probes of Protein Deacetylases. Journal of Biological Chemistry, 2007, 282, 37256-37265.	3.4	133
61	Sir2 Deacetylases Exhibit Nucleophilic Participation of Acetyl-Lysine in NAD+Cleavage. Journal of the American Chemical Society, 2007, 129, 5802-5803.	13.7	77
62	Mechanism-Based Inhibition of Sir2 Deacetylases by Thioacetyl-Lysine Peptide. Biochemistry, 2007, 46, 14478-14486.	2.5	138
63	Linking SIRT2 to Parkinsonâ€™s Disease. ACS Chemical Biology, 2007, 2, 529-532.	3.4	56
64	Sir2 Protein Deacetylases:â€‰ Evidence for Chemical Intermediates and Functions of a Conserved Histidine. Biochemistry, 2006, 45, 272-282.	2.5	113
65	Sirtuins Caught in the Act. Structure, 2006, 14, 1207-1208.	3.3	10
66	Small molecule regulation of Sir2 protein deacetylases. FEBS Journal, 2005, 272, 4607-4616.	4.7	121
67	Mechanism of Human SIRT1 Activation by Resveratrol. Journal of Biological Chemistry, 2005, 280, 17187-17195.	3.4	923
68	Coenzyme Specificity of Sir2 Protein Deacetylases. Journal of Biological Chemistry, 2004, 279, 40122-40129.	3.4	136