

Brian C Smith

List of Publications by Year in descending order

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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	Mechanism of Human SIRT1 Activation by Resveratrol. <i>Journal of Biological Chemistry</i> , 2005, 280, 17187-17195.	3.4	923
2	Sirt3 Promotes the Urea Cycle and Fatty Acid Oxidation during Dietary Restriction. <i>Molecular Cell</i> , 2011, 41, 139-149.	9.7	344
3	Chemical mechanisms of histone lysine and arginine modifications. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2009, 1789, 45-57.	1.9	314
4	Mechanisms of S-nitrosothiol formation and selectivity in nitric oxide signaling. <i>Current Opinion in Chemical Biology</i> , 2012, 16, 498-506.	6.1	228
5	Mechanism-Based Inhibition of Sir2 Deacetylases by Thioacetyl-Lysine Peptide. <i>Biochemistry</i> , 2007, 46, 14478-14486.	2.5	138
6	Coenzyme Specificity of Sir2 Protein Deacetylases. <i>Journal of Biological Chemistry</i> , 2004, 279, 40122-40129.	3.4	136
7	Acetyl-lysine Analog Peptides as Mechanistic Probes of Protein Deacetylases. <i>Journal of Biological Chemistry</i> , 2007, 282, 37256-37265.	3.4	133
8	Mechanisms and Molecular Probes of Sirtuins. <i>Chemistry and Biology</i> , 2008, 15, 1002-1013.	6.0	125
9	A continuous microplate assay for sirtuins and nicotinamide-producing enzymes. <i>Analytical Biochemistry</i> , 2009, 394, 101-109.	2.4	125
10	Small molecule regulation of Sir2 protein deacetylases. <i>FEBS Journal</i> , 2005, 272, 4607-4616.	4.7	121
11	Mitochondrial Metabolic Reprogramming by CD36 Signaling Drives Macrophage Inflammatory Responses. <i>Circulation Research</i> , 2019, 125, 1087-1102.	4.5	114
12	Sir2 Protein Deacetylases: Evidence for Chemical Intermediates and Functions of a Conserved Histidine. <i>Biochemistry</i> , 2006, 45, 272-282.	2.5	113
13	Molecular architecture of mammalian nitric oxide synthases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E3614-23.	7.1	91
14	Nitric oxide synthase domain interfaces regulate electron transfer and calmodulin activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3577-86.	7.1	84
15	Sir2 Deacetylases Exhibit Nucleophilic Participation of Acetyl-Lysine in NAD ⁺ Cleavage. <i>Journal of the American Chemical Society</i> , 2007, 129, 5802-5803.	13.7	77
16	SIRT3 Substrate Specificity Determined by Peptide Arrays and Machine Learning. <i>ACS Chemical Biology</i> , 2011, 6, 146-157.	3.4	65
17	Linking SIRT2 to Parkinson's Disease. <i>ACS Chemical Biology</i> , 2007, 2, 529-532.	3.4	56
18	Nitrosothiol formation and S-nitrosation signaling through nitric oxide synthases. <i>Nitric Oxide - Biology and Chemistry</i> , 2017, 63, 52-60.	2.7	51

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19	Hydrolysis of O-Acetyl-ADP-ribose Isomers by ADP-ribosylhydrolase 3. <i>Journal of Biological Chemistry</i> , 2011, 286, 21110-21117.	3.4	44
20	Chemoproteomic Strategy to Quantitatively Monitor Transnitrosation Uncovers Functionally Relevant S-Nitrosation Sites on Cathepsin D and HADH2. <i>Cell Chemical Biology</i> , 2016, 23, 727-737.	5.2	41
21	Mechanism of Sirt1 NAD ⁺ -dependent Protein Deacetylase Inhibition by Cysteine S-Nitrosation. <i>Journal of Biological Chemistry</i> , 2016, 291, 25398-25410.	3.4	38
22	Truncating Mutation in the Nitric Oxide Synthase 1 Gene Is Associated With Infantile Achalasia. <i>Gastroenterology</i> , 2015, 148, 533-536.e4.	1.3	37
23	Nitric oxide antagonism to glioblastoma photodynamic therapy and mitigation thereof by BET bromodomain inhibitor JQ1. <i>Journal of Biological Chemistry</i> , 2018, 293, 5345-5359.	3.4	36
24	Mechanism and Kinetics of Inducible Nitric Oxide Synthase Auto-S-nitrosation and Inactivation. <i>Biochemistry</i> , 2012, 51, 1028-1040.	2.5	34
25	Nitric Oxide Mediates Biofilm Formation and Symbiosis in <i>Silicibacter</i> sp. Strain TrichCH4B. <i>MBio</i> , 2015, 6, e00206-15.	4.1	32
26	Covalent-Fragment Screening of BRD4 Identifies a Ligandable Site Orthogonal to the Acetyl-Lysine Binding Sites. <i>ACS Chemical Biology</i> , 2020, 15, 1036-1049.	3.4	32
27	ICEKAT: an interactive online tool for calculating initial rates from continuous enzyme kinetic traces. <i>BMC Bioinformatics</i> , 2020, 21, 186.	2.6	29
28	Metabolically Derived Lysine Acylations and Neighboring Modifications Tune the Binding of the BET Bromodomains to Histone H4. <i>Biochemistry</i> , 2017, 56, 5485-5495.	2.5	21
29	Cysteine sulfenylation by CD36 signaling promotes arterial thrombosis in dyslipidemia. <i>Blood Advances</i> , 2020, 4, 4494-4507.	5.2	20
30	Structural and Kinetic Isotope Effect Studies of Nicotinamidase (Pnc1) from <i>Saccharomyces cerevisiae</i> . <i>Biochemistry</i> , 2012, 51, 243-256.	2.5	18
31	Ure(k)a! Sirtuins Regulate Mitochondria. <i>Cell</i> , 2009, 137, 404-406.	28.9	17
32	Human sirtuins are differentially sensitive to inhibition by nitrosating agents and other cysteine oxidants. <i>Journal of Biological Chemistry</i> , 2020, 295, 8524-8536.	3.4	17
33	Calmodulin-induced Conformational Control and Allostery Underlying Neuronal Nitric Oxide Synthase Activation. <i>Journal of Molecular Biology</i> , 2018, 430, 935-947.	4.2	14
34	Comparative and integrative metabolomics reveal that S-nitrosation inhibits physiologically relevant metabolic enzymes. <i>Journal of Biological Chemistry</i> , 2018, 293, 6282-6296.	3.4	14
35	Development and Validation of 2D Difference Intensity Analysis for Chemical Library Screening by Protein-detected NMR Spectroscopy. <i>ChemBioChem</i> , 2018, 19, 448-458.	2.6	13
36	Molecular mechanics and dynamic simulations of well-known Kabuki syndrome-associated KDM6A variants reveal putative mechanisms of dysfunction. <i>Orphanet Journal of Rare Diseases</i> , 2021, 16, 66.	2.7	11

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37	Sirtuins Caught in the Act. <i>Structure</i> , 2006, 14, 1207-1208.	3.3	10
38	Validation and Characterization of Five Distinct Novel Inhibitors of Human Cytomegalovirus. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 3896-3907.	6.4	8
39	Characterization of Dual-Acting A ₃ Adenosine Receptor Positive Allosteric Modulators That Preferentially Enhance Adenosine-Induced G _{i3} and G _{oA} Isoprotein Activation. <i>ACS Pharmacology and Translational Science</i> , 2022, 5, 625-641.	4.9	8
40	Development of activity-based probes for the protein deacylase Sirt1. <i>Bioorganic Chemistry</i> , 2020, 104, 104232.	4.1	7
41	Molecular docking-guided synthesis of NSAID-glucosamine bioconjugates and their evaluation as COX-1/COX-2 inhibitors with potentially reduced gastric toxicity. <i>Chemical Biology and Drug Design</i> , 2021, 98, 102-113.	3.2	7
42	Sirtuin Oxidative Post-translational Modifications. <i>Frontiers in Physiology</i> , 2021, 12, 763417.	2.8	6
43	Non-sedating benzodiazepines cause paralysis and tissue damage in the parasitic blood fluke <i>Schistosoma mansoni</i> . <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007826.	3.0	5
44	Structural bioinformatics enhances the interpretation of somatic mutations in KDM6A found in human cancers. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 2200-2211.	4.1	5
45	Trisubstituted 1,3,5-Triazines: The First Ligands of the sY12-Binding Pocket on Chemokine CXCL12. <i>ACS Medicinal Chemistry Letters</i> , 2021, 12, 1773-1782.	2.8	4
46	Oral and Inhaled Fosamprenavir Reverses Pepsin-Induced Damage in a Laryngopharyngeal Reflux Mouse Model. <i>Laryngoscope</i> , 2023, 133, .	2.0	4
47	Computational modeling reveals key molecular properties and dynamic behavior of disruptor of telomeric silencing like (<i>DOT1L</i>) and partnering complexes involved in leukemogenesis. <i>Proteins: Structure, Function and Bioinformatics</i> , 2022, 90, 282-298.	2.6	3
48	Chemical Regulation of the Protein Quality Control E3 Ubiquitin Ligase C-terminus of Hsc70 Interacting Protein (CHIP). <i>ChemBioChem</i> , 2022, , .	2.6	1
49	Integrative Modeling, Molecular Mechanics, and Molecular Dynamics Evaluation of Genomics Variants in KMT2C (MLL3), a Gene Involved in Kleeftstra Syndrome Type 2. <i>FASEB Journal</i> , 2022, 36, .	0.5	1
50	Reply. <i>Gastroenterology</i> , 2015, 149, 261-262.	1.3	0
51	BET Bromodomain Inhibition Results in the Conserved Upregulation of Sirtuin 1. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
52	Discovering and Exploiting Selectivity in Bromodomain Recognition of Epigenetic Lysine Acylation. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
53	BET bromodomain inhibitors diminish IL-1 β -induced transcription of NF- κ B target genes. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
54	Sirtuins regulate metabolic adaptation to energy status. <i>FASEB Journal</i> , 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	Development of a Molecular Probe Targeting Mitochondrial Fission Protein Fis1. FASEB Journal, 2018, 32, 530.17.	0.5	0
57	Discovering and Exploiting Selectivity in BET Tandem Bromodomain Recognition of Epigenetic Lysine Acylation. FASEB Journal, 2018, 32, 524.15.	0.5	0
58	Protein Cysteine Sulfenylation By CD36-Dependent Reactive Oxygen Species Signaling Promotes Platelet Activation. Blood, 2019, 134, 2338-2338.	1.4	0
59	2131-P: BET Bromodomain Inhibition Upregulates SIRT1 In Pancreatic β -Cells. Diabetes, 2020, 69, 2131-P.	0.6	0
60	2117-P: BET Bromodomain Inhibitors Mitigate Cytokine-Induced Transcription in β -Cells via Inhibition of NF- κ B. Diabetes, 2020, 69, 2117-P.	0.6	0
61	Title is missing!. , 2019, 13, e0007826.		0
62	Title is missing!. , 2019, 13, e0007826.		0
63	Title is missing!. , 2019, 13, e0007826.		0
64	Title is missing!. , 2019, 13, e0007826.		0
65	Defining the Mutational Landscape That Affects the Histone Demethylase KDM6A/UTX in Human Cancer. FASEB Journal, 2022, 36, .	0.5	0
66	Zinc-Chelating BET Bromodomain Inhibitors Selectively Accumulate and Affect Gene Expression in Pancreatic β -Cells. FASEB Journal, 2022, 36, .	0.5	0
67	Polybromo- ϵ 1 missense mutations found in renal cancer patients affect bromodomain stability and biological function. FASEB Journal, 2022, 36, .	0.5	0
68	Characterization of Novel A ₃ Adenosine Receptor Allosteric Modulators. FASEB Journal, 2022, 36, .	0.5	0