David M Smith

List of Publications by Year
in descending order

42 papers	3,741 citations	218677 26 h-index	315739 38 g-index
48 all docs	48 docs citations	48 times ranked	3852 citing authors

#	Article	IF	Citations
1	Ester Bond-containing Tea Polyphenols Potently Inhibit Proteasome Activity in Vitro and in Vivo. Journal of Biological Chemistry, 2001, 276, 13322-13330.	3.4	466
2	Docking of the Proteasomal ATPases' Carboxyl Termini in the 20S Proteasome's Î± Ring Opens the Gate for Substrate Entry. Molecular Cell, 2007, 27, 731-744.	9.7	460
3	Mechanism of Gate Opening in the 20S Proteasome by the Proteasomal ATPases. Molecular Cell, 2008, 30, 360-368.	9.7	334
4	A common mechanism of proteasome impairment by neurodegenerative disease-associated oligomers. Nature Communications, 2018, 9, 1097.	12.8	251
5	A Practical Review of Proteasome Pharmacology. Pharmacological Reviews, 2019, 71, 170-197.	16.0	245
6	ATP Binding to PAN or the 26S ATPases Causes Association with the 20S Proteasome, Gate Opening, and Translocation of Unfolded Proteins. Molecular Cell, 2005, 20, 687-698.	9.7	230
7	ATP Binds to Proteasomal ATPases in Pairs with Distinct Functional Effects, Implying an Ordered Reaction Cycle. Cell, 2011, 144, 526-538.	28.9	174
8	Inhibition of the proteasome activity, a novel mechanism associated with the tumor cell apoptosis-inducing ability of genistein. Biochemical Pharmacology, 2003, 66, 965-976.	4.4	161
9	A subset of myofibroblastic cancer-associated fibroblasts regulate collagen fiber elongation, which is prognostic in multiple cancers. Oncotarget, 2016, 7, 6159-6174.	1.8	149
10	Docking studies and model development of tea polyphenol proteasome inhibitors: Applications to rational drug design. Proteins: Structure, Function and Bioinformatics, 2003, 54, 58-70.	2.6	111
11	Synthetic Analogs of Green Tea Polyphenols as Proteasome Inhibitors. Molecular Medicine, 2002, 8, 382-392.	4.4	110
12	Misfolded PrP impairs the UPS by interaction with the 20S proteasome and inhibition of substrate entry. EMBO Journal, 2011, 30, 3065-3077.	7.8	104
13	Interactions of PAN's C-termini with archaeal 20S proteasome and implications for the eukaryotic proteasomeâ€“ATPase interactions. EMBO Journal, 2010, 29, 692-702.	7.8	100
14	Proteasomes and their associated ATPases: A destructive combination. Journal of Structural Biology, 2006, 156, 72-83.	2.8	98
15	A Conserved F Box Regulatory Complex Controls Proteasome Activity in Drosophila. Cell, 2011, 145, 371-382.	28.9	96
16	Blm10 Protein Promotes Proteasomal Substrate Turnover by an Active Gating Mechanism. Journal of Biological Chemistry, 2011, 286, 42830-42839.	3.4	74
17	A Novel Î²-Lactam Antibiotic Activates Tumor Cell Apoptotic Program by Inducing DNA Damage. Molecular Pharmacology, 2002, 61, 1348-1358.	2.3	68
18	ATP binding to neighbouring subunits and intersubunit allosteric coupling underlie proteasomal ATPase function. Nature Communications, 2015, 6, 8520.	12.8	51

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19	Synthetic analogs of green tea polyphenols as proteasome inhibitors. Molecular Medicine, 2002, 8, 382-92.	4.4	47
20	ATP-induced Structural Transitions in PAN, the Proteasome-regulatory ATPase Complex in Archaea. Journal of Biological Chemistry, 2007, 282, 22921-22929.	3.4	42
21	Green tea polyphenol epigallocatechin inhibits DNA replication and consequently induces leukemia cell apoptosis. International Journal of Molecular Medicine, 2001, 7, 645-52.	4.0	34
22	Inhibition of Bcl-XL Phosphorylation by Tea Polyphenols or Epigallocatechin-3-Gallate Is Associated with Prostate Cancer Cell Apoptosis. Molecular Pharmacology, 2002, 62, 765-771.	2.3	34
23	Naturally Occurring Proteasome Inhibitors from Mate Tea (Ilex paraguayensis) Serve as Models for Topical Proteasome Inhibitors. Journal of Investigative Dermatology, 2005, 125, 207-212.	0.7	31
24	Grainyhead-like 2 inhibits the coactivator p300, suppressing tubulogenesis and the epithelialâ€“mesenchymal transition. Molecular Biology of the Cell, 2016, 27, 2479-2492.	2.1	30
25	Regulation of tumor cell apoptotic sensitivity during the cell cycle (Review).. International Journal of Molecular Medicine, 2000, 6, 503-7.	4.0	28
26	Conformational switching in the coiled-coil domains of a proteasomal ATPase regulates substrate processing. Nature Communications, 2018, 9, 2374.	12.8	27
27	Aortic dysfunction in metabolic syndrome mediated by perivascular adipose tissue TNFÎ±â€•and NOX2â€dependent pathway. Experimental Physiology, 2018, 103, 590-603.	2.0	26
28	Interruption of tumor cell cycle progression through proteasome inhibition: implications for cancer therapy. Progress in Cell Cycle Research, 2003, 5, 441-6.	0.9	26
29	Could a Common Mechanism of Protein Degradation Impairment Underlie Many Neurodegenerative Diseases?. Journal of Experimental Neuroscience, 2018, 12, 117906951879467.	2.3	24
30	Exercise training prevents the perivascular adipose tissue-induced aortic dysfunction with metabolic syndrome. Redox Biology, 2019, 26, 101285.	9.0	24
31	Overexpression of interleukin-2 receptor ? in a human squamous cell carcinoma of the head and neck cell line is associated with increased proliferation, drug resistance, and transforming ability. Journal of Cellular Biochemistry, 2003, 89, 824-836.	2.6	19
32	The Proteasomal ATPases Use a Slow but Highly Processive Strategy to Unfold Proteins. Frontiers in Molecular Biosciences, 2017, 4, 18.	3.5	18
33	Differential effects of proteasome inhibitors on cell cycle and apoptotic pathways in human YT and Jurkat cells. Journal of Cellular Biochemistry, 2006, 97, 122-134.	2.6	13
34	Acetylation of AÎ²₄₀ Alters Aggregation in the Presence and Absence of Lipid Membranes. ACS Chemical Neuroscience, 2020, 11, 146-161.	3.5	11
35	Measuring Influenza A Virus and Peptide Interaction Using Electrically Controllable DNA Nanolevers. Advanced Materials Technologies, 0, , 2101141.	5.8	8
36	Archaeal Unfoldase Counteracts Protein Misfolding Retinopathy in Mice. Journal of Neuroscience, 2018, 38, 7248-7254.	3.6	6

#	Article	IF	Citations
37	Exploiting the Ubiquitin-Proteasome Pathway for Anticancer Drug Discovery: Unanswered Questions and Future Directions. Letters in Drug Design and Discovery, 2005, 2, 74-81.	0.7	5
38	Proteasome activator 28Î³ (PA28Î³) allosterically activates trypsin-like proteolysis by binding to the Î±-ring of the 20S proteasome. Journal of Biological Chemistry, 2022, 298, 102140.	3.4	4
39	Results of a Multicenter Feasibility Study of an Automated Bedside Glucose Monitoring System in the Burn Intensive Care Setting. Journal of Burn Care and Research, 2020, 41, 535-538.	0.4	2
40	Functional Consequences of Nucleotide Binding to the Proteasomal ATPases. FASEB Journal, 2010, 24, lb84.	0.5	0
41	Proteasomal ATPases Hard at Work: The Inner Workings of a Protein Destruction Machine. FASEB Journal, 2018, 32, 526.42.	0.5	0
42	Measuring Influenza A Virus and Peptide Interaction Using Electrically Controllable DNA Nanolevers (Adv. Mater. Technol. 5/2022). Advanced Materials Technologies, 2022, 7, .	5.8	0