Geoffrey Masuyer

List of Publications by Year in descending order

44 papers	1,770 citations	279487 23 h-index	288905 40 g-index
46 all docs	46 docs citations	46 times ranked	2084 citing authors

#	Article	IF	Citations
1	Identification and characterization of a novel botulinum neurotoxin. Nature Communications, 2017, 8, 14130.	5.8	196
2	Small-molecule inhibitor of OGG1 suppresses proinflammatory gene expression and inflammation. Science, 2018, 362, 834-839.	6.0	156
3	Botulinum and Tetanus Neurotoxins. Annual Review of Biochemistry, 2019, 88, 811-837.	5.0	140
4	Molecular recognition and regulation of human angiotensin-I converting enzyme (ACE) activity by natural inhibitory peptides. Scientific Reports, 2012, 2, 717.	1.6	127
5	Identification of a Botulinum Neurotoxin-like Toxin in a Commensal Strain of Enterococcus faecium. Cell Host and Microbe, 2018, 23, 169-176.e6.	5.1	127
6	NUDT15 Hydrolyzes 6-Thio-DeoxyGTP to Mediate the Anticancer Efficacy of 6-Thioguanine. Cancer Research, 2016, 76, 5501-5511.	0.4	96
7	The structure of the tetanus toxin reveals <scp>pH</scp>â€mediated domain dynamics. EMBO Reports, 2017, 18, 1306-1317.	2.0	61
8	Engineered Botulinum Neurotoxins as New Therapeutics. Annual Review of Pharmacology and Toxicology, 2014, 54, 27-51.	4.2	55
9	Glycans Confer Specificity to the Recognition of Ganglioside Receptors by Botulinum Neurotoxin A. Journal of the American Chemical Society, 2017, 139, 218-230.	6.6	50
10	A neurotoxin that specifically targets Anopheles mosquitoes. Nature Communications, 2019, 10, 2869.	5.8	50
11	Structure Based Drug Design of Angiotensin-I Converting Enzyme Inhibitors. Current Medicinal Chemistry, 2012, 19, 845-855.	1.2	47
12	Isolation and pharmacological characterization of AdTx1, a natural peptide displaying specific insurmountable antagonism of the Î±_{1A}â€adrenoceptor. British Journal of Pharmacology, 2010, 159, 316-325.	2.7	43
13	Angiotensin-I converting enzyme (ACE): structure, biological roles, and molecular basis for chloride ion dependence. Biological Chemistry, 2014, 395, 1135-1149.	1.2	43
14	Identification of a novel snake peptide toxin displaying high affinity and antagonist behaviour for the Î±₂â€adrenoceptors. British Journal of Pharmacology, 2010, 161, 1361-1374.	2.7	36
15	Fragment-based design for the development of N-domain-selective angiotensin-1-converting enzyme inhibitors. Clinical Science, 2014, 126, 305-313.	1.8	36
16	Structural characterization of angiotensinâ€ƒIâ€converting enzyme in complex with a selenium analogue of captopril. FEBS Journal, 2011, 278, 3644-3650.	2.2	33
17	Structural characterisation of the catalytic domain of botulinum neurotoxin X - high activity and unique substrate specificity. Scientific Reports, 2018, 8, 4518.	1.6	30
18	Molecular and Thermodynamic Mechanisms of the Chloride-dependent Human Angiotensin-I-converting Enzyme (ACE). Journal of Biological Chemistry, 2014, 289, 1798-1814.	1.6	29

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19	Mechanism of Peptide Binding and Cleavage by the Human Mitochondrial Peptidase Neurolysin. Journal of Molecular Biology, 2018, 430, 348-362.	2.0	29
20	Engineered botulinum neurotoxin B with improved binding to human receptors has enhanced efficacy in preclinical models. Science Advances, 2019, 5, eaau7196.	4.7	29
21	Targeting OGG1 arrests cancer cell proliferation by inducing replication stress. Nucleic Acids Research, 2020, 48, 12234-12251.	6.5	29
22	Crystal structures of highly specific phosphinic tripeptide enantiomers in complex with the angiotensinâ€‹<scp>I</scp> converting enzyme. FEBS Journal, 2014, 281, 943-956.	2.2	27
23	Interkingdom Pharmacology of Angiotensin-I Converting Enzyme Inhibitor Phosphonates Produced by Actinomycetes. ACS Medicinal Chemistry Letters, 2014, 5, 346-351.	1.3	26
24	Crystal structure of a catalytically active, non-toxic endopeptidase derivative of Clostridium botulinum toxin A. Biochemical and Biophysical Research Communications, 2009, 381, 50-53.	1.0	23
25	Structure and activity of a functional derivative of Clostridium botulinum neurotoxin B. Journal of Structural Biology, 2011, 174, 52-57.	1.3	21
26	Structural basis of peptide recognition by the angiotensinâ€‹1 converting enzyme homologue An<scp>CE</scp> from <scp>D</scp>rosophilaÂmelanogaster. FEBS Journal, 2012, 279, 4525-4534.	2.2	21
27	Small-molecule activation of OGG1 increases oxidative DNA damage repair by gaining a new function. Science, 2022, 376, 1471-1476.	6.0	20
28	Kinetic and structural characterization of amyloidâ€‹Î²2 peptide hydrolysis by human angiotensinâ€‹1â€‹converting enzyme. FEBS Journal, 2016, 283, 1060-1076.	2.2	19
29	Inhibition mechanism of human galectinâ€‹7 by a novel galactoseâ€‹benzylphosphate inhibitor. FEBS Journal, 2012, 279, 193-202.	2.2	18
30	Structural basis of Ac-SDKP hydrolysis by Angiotensin-I converting enzyme. Scientific Reports, 2015, 5, 13742.	1.6	18
31	Characterization of a membrane binding loop leads to engineering botulinum neurotoxin B with improved therapeutic efficacy. PLoS Biology, 2020, 18, e3000618.	2.6	18
32	Absence of cell surface expression of human ACE leads to perinatal death. Human Molecular Genetics, 2014, 23, 1479-1491.	1.4	14
33	Crystal Structure of Botulinum Neurotoxin A2 in Complex with the Human Protein Receptor SV2C Reveals Plasticity in Receptor Binding. Toxins, 2018, 10, 153.	1.5	14
34	Engineering botulinum neurotoxin domains for activation by toxin light chain. FEBS Journal, 2012, 279, 515-523.	2.2	13
35	Structural basis of multivalent galactoseâ€‹based dendrimer recognition by human galectinâ€‹7. FEBS Journal, 2015, 282, 372-387.	2.2	13
36	Structural analysis of Clostridium botulinum neurotoxin type D as a platform for the development of targeted secretion inhibitors. Scientific Reports, 2015, 5, 13397.	1.6	12

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37	Structures of engineered Clostridium botulinum neurotoxin derivatives. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 1466-1472.	0.7	9
38	Crystal structure of the catalytic domain of the Weissella oryzae botulinumâ€like toxin. FEBS Letters, 2019, 593, 1403-1410.	1.3	8
39	Crystal structure of a peptidylâ€dipeptidase Kâ€26â€DCP from Actinomycete in complex with its natural inhibitor. FEBS Journal, 2016, 283, 4357-4369.	2.2	6
40	Structural basis for the interaction of the chaperone Cbp3 with newly synthesized cytochrome b during mitochondrial respiratory chain assembly. Journal of Biological Chemistry, 2019, 294, 16663-16671.	1.6	6
41	Structural and Biochemical Characterization of Botulinum Neurotoxin Subtype B2 Binding to Its Receptors. Toxins, 2020, 12, 603.	1.5	6
42	Crystal Structure of Exotoxin A from Aeromonas Pathogenic Species. Toxins, 2020, 12, 397.	1.5	6
43	Mechanism of Ganglioside Receptor Recognition by Botulinum Neurotoxin Serotype E. International Journal of Molecular Sciences, 2021, 22, 8315.	1.8	5
44	Structural Analysis of Botulinum Neurotoxins Type B and E by Cryo-EM. Toxins, 2022, 14, 14.	1.5	5