Claudia Binda

List of Publications by Year in descending order

72 papers	7,279 citations	50276 46 h-index	85541 71 g-index
72 all docs	72 docs citations	72 times ranked	6167 citing authors

#	Article	IF	Citations
1	Structure of human monoamine oxidase B, a drug target for the treatment of neurological disorders. Nature Structural Biology, 2002, 9, 22-26.	9.7	546
2	Structures of Human Monoamine Oxidase B Complexes with Selective Noncovalent Inhibitors:â€‰ Safinamide and Coumarin Analogs. Journal of Medicinal Chemistry, 2007, 50, 5848-5852.	6.4	472
3	Three-dimensional structure of human monoamine oxidase A (MAO A): Relation to the structures of rat MAO A and human MAO B. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12684-12689.	7.1	446
4	Insights into the mode of inhibition of human mitochondrial monoamine oxidase B from high-resolution crystal structures. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 9750-9755.	7.1	360
5	Biochemical, Structural, and Biological Evaluation of Tranylcypromine Derivatives as Inhibitors of Histone Demethylases LSD1 and LSD2. Journal of the American Chemical Society, 2010, 132, 6827-6833.	13.7	261
6	Molecular and Mechanistic Properties of the Membrane-Bound Mitochondrial Monoamine Oxidases. Biochemistry, 2009, 48, 4220-4230.	2.5	258
7	Histone demethylation catalysed by LSD1 is a flavin-dependent oxidative process. FEBS Letters, 2005, 579, 2203-2207.	2.8	243
8	A Novel Mammalian Flavin-dependent Histone Demethylase. Journal of Biological Chemistry, 2009, 284, 17775-17782.	3.4	240
9	Human Histone Demethylase LSD1 Reads the Histone Code. Journal of Biological Chemistry, 2005, 280, 41360-41365.	3.4	223
10	Structural Basis of LSD1-CoREST Selectivity in Histone H3 Recognition. Journal of Biological Chemistry, 2007, 282, 20070-20074.	3.4	209
11	Crystal Structures of Monoamine Oxidase B in Complex with Four Inhibitors of the N-Propargylaminoindan Class. Journal of Medicinal Chemistry, 2004, 47, 1767-1774.	6.4	200
12	Demonstration of Isoleucine 199 as a Structural Determinant for the Selective Inhibition of Human Monoamine Oxidase B by Specific Reversible Inhibitors. Journal of Biological Chemistry, 2005, 280, 15761-15766.	3.4	189
13	Structural insights into the mechanism of amine oxidation by monoamine oxidases A and B. Archives of Biochemistry and Biophysics, 2007, 464, 269-276.	3.0	177
14	A 30 Ã... long U-shaped catalytic tunnel in the crystal structure of polyamine oxidase. Structure, 1999, 7, 265-276.	3.3	160
15	Structural Basis for Benzothiazinone-Mediated Killing of Mycobacterium tuberculosis. Science Translational Medicine, 2012, 4, 150ra121.	12.4	159
16	LSD1: oxidative chemistry for multifaceted functions in chromatin regulation. Trends in Biochemical Sciences, 2008, 33, 181-189.	7.5	153
17	Structure-Function Relationships in Flavoenzyme-dependent Amine Oxidations. Journal of Biological Chemistry, 2002, 277, 23973-23976.	3.4	152
18	Alternative Splicing of the Histone Demethylase LSD1/KDM1 Contributes to the Modulation of Neurite Morphogenesis in the Mammalian Nervous System. Journal of Neuroscience, 2010, 30, 2521-2532.	3.6	138

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19	Functional Role of the â€œAromatic Cageâ€•in Human Monoamine Oxidase B:â€‰ Structures and Catalytic Properties of Tyr435 Mutant Proteins,. Biochemistry, 2006, 45, 4775-4784.	2.5	127
20	2-Carboxyquinoxalines Kill Mycobacterium tuberculosis through Noncovalent Inhibition of DprE1. ACS Chemical Biology, 2015, 10, 705-714.	3.4	116
21	A Highly Specific Mechanism of Histone H3-K4 Recognition by Histone Demethylase LSD1. Journal of Biological Chemistry, 2006, 281, 35289-35295.	3.4	115
22	Crystal structure of human monoamine oxidase B, a drug target enzyme monotopically inserted into the mitochondrial outer membrane. FEBS Letters, 2004, 564, 225-228.	2.8	100
23	4-Aminoquinolone Piperidine Amides: Noncovalent Inhibitors of DprE1 with Long Residence Time and Potent Antimycobacterial Activity. Journal of Medicinal Chemistry, 2014, 57, 5419-5434.	6.4	97
24	Binding of Rasagiline-Related Inhibitors to Human Monoamine Oxidases:â€‰ A Kinetic and Crystallographic Analysis. Journal of Medicinal Chemistry, 2005, 48, 8148-8154.	6.4	95
25	Potentiation of Ligand Binding through Cooperative Effects in Monoamine Oxidase B. Journal of Biological Chemistry, 2010, 285, 36849-36856.	3.4	93
26	The DprE1 enzyme, one of the most vulnerable targets of Mycobacterium tuberculosis. Applied Microbiology and Biotechnology, 2013, 97, 8841-8848.	3.6	92
27	Structure-Based Enzyme Tailoring of 5-Hydroxymethylfurfural Oxidase. ACS Catalysis, 2015, 5, 1833-1839.	11.2	91
28	Cross-Talk and Ammonia Channeling between Active Centers in the Unexpected Domain Arrangement of Glutamate Synthase. Structure, 2000, 8, 1299-1308.	3.3	86
29	Inactivation of Purified Human Recombinant Monoamine Oxidases A and B by Rasagiline and Its Analogues. Journal of Medicinal Chemistry, 2004, 47, 1760-1766.	6.4	86
30	Molecular Mimicry and Ligand Recognition in Binding and Catalysis by the Histone Demethylase LSD1-CoREST Complex. Structure, 2011, 19, 212-220.	3.3	85
31	The â€˜gatingâ€™ residues Ile199 and Tyr326 in human monoamine oxidase B function in substrate and inhibitor recognition. FEBS Journal, 2011, 278, 4860-4869.	4.7	78
32	Monoamine oxidaseâ€A is a novel driver of stressâ€induced premature senescence through inhibition of parkinâ€mediated mitophagy. Aging Cell, 2018, 17, e12811.	6.7	78
33	Design and synthesis of novel chalcones as potent selective monoamine oxidase-B inhibitors. European Journal of Medicinal Chemistry, 2016, 114, 162-169.	5.5	77
34	Monoamine Oxidases. Sub-Cellular Biochemistry, 2018, 87, 117-139.	2.4	77
35	The FAD Binding Sites of Human Monoamine Oxidases A and B. NeuroToxicology, 2004, 25, 63-72.	3.0	76
36	Monoamine Oxidases, Oxidative Stress, and Altered Mitochondrial Dynamics in Cardiac Ageing. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-8.	4.0	76

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37	Molecular Insights into Human Monoamine Oxidase B Inhibition by the Glitazone Antidiabetes Drugs. ACS Medicinal Chemistry Letters, 2012, 3, 39-42.	2.8	74
38	New roles of flavoproteins in molecular cell biology: Histone demethylase LSD1 and chromatin. FEBS Journal, 2009, 276, 4304-4312.	4.7	71
39	Structural and Mechanistic Studies of Arylalkylhydrazine Inhibition of Human Monoamine Oxidases A and B. Biochemistry, 2008, 47, 5616-5625.	2.5	70
40	Structural Bases for Inhibitor Binding and Catalysis in Polyamine Oxidaseâ€‚â€¡. Biochemistry, 2001, 40, 2766-2776.	2.5	63
41	Tight-Binding Inhibition of Human Monoamine Oxidase B by Chromone Analogs: A Kinetic, Crystallographic, and Biological Analysis. Journal of Medicinal Chemistry, 2018, 61, 4203-4212.	6.4	58
42	Biocatalytic Characterization of Human FMO5: Unearthing Baeyerâ€“Villiger Reactions in Humans. ACS Chemical Biology, 2016, 11, 1039-1048.	3.4	57
43	Interactions of Monoamine Oxidases with the Antiepileptic Drug Zonisamide: Specificity of Inhibition and Structure of the Human Monoamine Oxidase B Complex. Journal of Medicinal Chemistry, 2011, 54, 909-912.	6.4	56
44	Structural properties of human monoamine oxidases A and B. International Review of Neurobiology, 2011, 100, 1-11.	2.0	55
45	Lights and Shadows on Monoamine Oxidase Inhibition in Neuroprotective Pharmacological Therapies. Current Topics in Medicinal Chemistry, 2011, 11, 2788-2796.	2.1	50
46	Kinetic and structural analysis of the irreversible inhibition of human monoamine oxidases by ASS234, a multi-target compound designed for use in Alzheimer's disease. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 1104-1110.	2.3	48
47	Structural and Mechanistic Studies of Mofegiline Inhibition of Recombinant Human Monoamine Oxidase B. Journal of Medicinal Chemistry, 2008, 51, 8019-8026.	6.4	45
48	The structure of monoamine oxidases: past, present, and future. Journal of Neural Transmission, 2018, 125, 1567-1579.	2.8	40
49	An Unprecedented NADPH Domain Conformation in Lysine Monooxygenase NbtG Provides Insights into Uncoupling of Oxygen Consumption from Substrate Hydroxylation. Journal of Biological Chemistry, 2015, 290, 12676-12688.	3.4	38
50	Stereoselective Activity of 1-Propargyl-4-styrylpiperidine-like Analogues That Can Discriminate between Monoamine Oxidase Isoforms A and B. Journal of Medicinal Chemistry, 2020, 63, 1361-1387.	6.4	33
51	Biocatalytic Properties and Structural Analysis of Eugenol Oxidase from Rhodococcus jostii RHA1: A Versatile Oxidative Biocatalyst. ChemBioChem, 2016, 17, 1359-1366.	2.6	29
52	Discovery and characterization of an F420-dependent glucose-6-phosphate dehydrogenase (Rh-FGD1) from Rhodococcus jostii RHA1. Applied Microbiology and Biotechnology, 2017, 101, 2831-2842.	3.6	28
53	Structure-Based Engineering of Phanerochaete chrysosporium Alcohol Oxidase for Enhanced Oxidative Power toward Glycerol. Biochemistry, 2018, 57, 6209-6218.	2.5	25
54	Comparative Analysis of the Neurochemical Profile and MAO Inhibition Properties of N-(Furan-2-ylmethyl)-N-methylprop-2-yn-1-amine. ACS Chemical Neuroscience, 2017, 8, 1026-1035.	3.5	22

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55	Assessment of Tractable Cysteines for Covalent Targeting by Screening Covalent Fragments. ChemBioChem, 2021, 22, 743-753.	2.6	19
56	Inhibition of Pig Liver andZea maysL. Polyamine Oxidase: A Comparative Study. Journal of Enzyme Inhibition and Medicinal Chemistry, 2001, 16, 147-155.	0.5	18
57	TranylcypromineâEBased LSD1 Inhibitors: StructureâEActivity Relationships, Antiproliferative Effects in Leukemia, and Gene Target Modulation. ChemMedChem, 2020, 15, 643-658.	3.2	18
58	Isolation and characterization of a thermostable F420:NADPH oxidoreductase from Thermobifida fusca. Journal of Biological Chemistry, 2017, 292, 10123-10130.	3.4	17
59	Kinetic Resolution of secâ€Thiols by Enantioselective Oxidation with Rationally Engineered 5â€(Hydroxymethyl)furfural Oxidase. Angewandte Chemie - International Edition, 2018, 57, 2864-2868.	13.8	15
60	Promising Non-cytotoxic Monosubstituted Chalcones to Target Monoamine Oxidase-B. ACS Medicinal Chemistry Letters, 2021, 12, 1151-1158.	2.8	15
61	Two tyrosine residues, Tyr-108 and Tyr-503, are responsible for the deprotonation of phenolic substrates in vanillyl-alcohol oxidase. Journal of Biological Chemistry, 2017, 292, 14668-14679.	3.4	14
62	The multipurpose family of flavoprotein oxidases. The Enzymes, 2020, 47, 63-86.	1.7	12
63	Rational Redesign of Monoamine Oxidase A into a Dehydrogenase to Probe ROS in Cardiac Aging. ACS Chemical Biology, 2020, 15, 1795-1800.	3.4	12
64	Dual Reversible Coumarin Inhibitors Mutually Bound to Monoamine Oxidase B and Acetylcholinesterase Crystal Structures. ACS Medicinal Chemistry Letters, 2022, 13, 499-506.	2.8	11
65	Polystyrene microbridges used in sitting-drop crystallization release 1,4-diphenyl-2-butene, a novel inhibitor of human MAO B. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 1874-1876.	2.5	10
66	Crystallization and preliminary X-ray analysis of polyamine oxidase from Zea mays L.. Acta Crystallographica Section D: Biological Crystallography, 1998, 54, 1429-1431.	2.5	8
67	Crystallographic snapshots of UDP-glucuronic acid 4-epimerase ligand binding, rotation, and reduction. Journal of Biological Chemistry, 2020, 295, 12461-12473.	3.4	7
68	Diphenylene Iodonium Is a Noncovalent MAO Inhibitor: A Biochemical and Structural Analysis. ChemMedChem, 2020, 15, 1394-1397.	3.2	4
69	Kinetic Resolution of secâ€Thiols by Enantioselective Oxidation with Rationally Engineered 5â€(Hydroxymethyl)furfural Oxidase. Angewandte Chemie, 2018, 130, 2914-2918.	2.0	3
70	Monoamine Oxidase Inhibitors: Diverse and Surprising Chemistry with Expanding Pharmacological Potential. NATO Science for Peace and Security Series A: Chemistry and Biology, 2013, , 309-312.	0.5	2
71	8 Demethylation pathways for histone methyllysine residues. The Enzymes, 2006, 24, 229-242.	1.7	1
72	TOWARDS NEW ANTITUBERCULAR DRUGS. Istituto Lombardo - Accademia Di Scienze E Lettere - Rendiconti Di Scienze, 2015, , .	0.0	0