

# Claudia Binda

## List of Publications by Year in descending order

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72  
papers

7,279  
citations

50244

46  
h-index

85498

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. <i>Nature Structural Biology</i> , 2002, 9, 22-26.	9.7	546
2	Structures of Human Monoamine Oxidase B Complexes with Selective Noncovalent Inhibitors: Sildenafil and Coumarin Analogs. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 5848-5852.	2.9	472
3	Three-dimensional structure of human monoamine oxidase A (MAO A): Relation to the structures of rat MAO A and human MAO B. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 12684-12689.	3.3	446
4	Insights into the mode of inhibition of human mitochondrial monoamine oxidase B from high-resolution crystal structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 9750-9755.	3.3	360
5	Biochemical, Structural, and Biological Evaluation of Tranylcypromine Derivatives as Inhibitors of Histone Demethylases LSD1 and LSD2. <i>Journal of the American Chemical Society</i> , 2010, 132, 6827-6833.	6.6	261
6	Molecular and Mechanistic Properties of the Membrane-Bound Mitochondrial Monoamine Oxidases. <i>Biochemistry</i> , 2009, 48, 4220-4230.	1.2	258
7	Histone demethylation catalysed by LSD1 is a flavin-dependent oxidative process. <i>FEBS Letters</i> , 2005, 579, 2203-2207.	1.3	243
8	A Novel Mammalian Flavin-dependent Histone Demethylase. <i>Journal of Biological Chemistry</i> , 2009, 284, 17775-17782.	1.6	240
9	Human Histone Demethylase LSD1 Reads the Histone Code. <i>Journal of Biological Chemistry</i> , 2005, 280, 41360-41365.	1.6	223
10	Structural Basis of LSD1-CoREST Selectivity in Histone H3 Recognition. <i>Journal of Biological Chemistry</i> , 2007, 282, 20070-20074.	1.6	209
11	Crystal Structures of Monoamine Oxidase B in Complex with Four Inhibitors of the N-Propargylaminoindan Class. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 1767-1774.	2.9	200
12	Demonstration of Isoleucine 199 as a Structural Determinant for the Selective Inhibition of Human Monoamine Oxidase B by Specific Reversible Inhibitors. <i>Journal of Biological Chemistry</i> , 2005, 280, 15761-15766.	1.6	189
13	Structural insights into the mechanism of amine oxidation by monoamine oxidases A and B. <i>Archives of Biochemistry and Biophysics</i> , 2007, 464, 269-276.	1.4	177
14	A 30 Å... long U-shaped catalytic tunnel in the crystal structure of polyamine oxidase. <i>Structure</i> , 1999, 7, 265-276.	1.6	160
15	Structural Basis for Benzothiazinone-Mediated Killing of <i>Mycobacterium tuberculosis</i> . <i>Science Translational Medicine</i> , 2012, 4, 150ra121.	5.8	159
16	LSD1: oxidative chemistry for multifaceted functions in chromatin regulation. <i>Trends in Biochemical Sciences</i> , 2008, 33, 181-189.	3.7	153
17	Structure-Function Relationships in Flavoenzyme-dependent Amine Oxidations. <i>Journal of Biological Chemistry</i> , 2002, 277, 23973-23976.	1.6	152
18	Alternative Splicing of the Histone Demethylase LSD1/KDM1 Contributes to the Modulation of Neurite Morphogenesis in the Mammalian Nervous System. <i>Journal of Neuroscience</i> , 2010, 30, 2521-2532.	1.7	138

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19	Functional Role of the "Aromatic Cage" in Human Monoamine Oxidase B: Structures and Catalytic Properties of Tyr435 Mutant Proteins. <i>Biochemistry</i> , 2006, 45, 4775-4784.	1.2	127
20	2-Carboxyquinoxalines Kill <i>Mycobacterium tuberculosis</i> through Noncovalent Inhibition of DprE1. <i>ACS Chemical Biology</i> , 2015, 10, 705-714.	1.6	116
21	A Highly Specific Mechanism of Histone H3-K4 Recognition by Histone Demethylase LSD1. <i>Journal of Biological Chemistry</i> , 2006, 281, 35289-35295.	1.6	115
22	Crystal structure of human monoamine oxidase B, a drug target enzyme monotonically inserted into the mitochondrial outer membrane. <i>FEBS Letters</i> , 2004, 564, 225-228.	1.3	100
23	4-Aminoquinolone Piperidine Amides: Noncovalent Inhibitors of DprE1 with Long Residence Time and Potent Antimycobacterial Activity. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 5419-5434.	2.9	97
24	Binding of Rasagiline-Related Inhibitors to Human Monoamine Oxidases: A Kinetic and Crystallographic Analysis. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 8148-8154.	2.9	95
25	Potential of Ligand Binding through Cooperative Effects in Monoamine Oxidase B. <i>Journal of Biological Chemistry</i> , 2010, 285, 36849-36856.	1.6	93
26	The DprE1 enzyme, one of the most vulnerable targets of <i>Mycobacterium tuberculosis</i> . <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 8841-8848.	1.7	92
27	Structure-Based Enzyme Tailoring of 5-Hydroxymethylfurfural Oxidase. <i>ACS Catalysis</i> , 2015, 5, 1833-1839.	5.5	91
28	Cross-Talk and Ammonia Channeling between Active Centers in the Unexpected Domain Arrangement of Glutamate Synthase. <i>Structure</i> , 2000, 8, 1299-1308.	1.6	86
29	Inactivation of Purified Human Recombinant Monoamine Oxidases A and B by Rasagiline and Its Analogues. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 1760-1766.	2.9	86
30	Molecular Mimicry and Ligand Recognition in Binding and Catalysis by the Histone Demethylase LSD1-CoREST Complex. <i>Structure</i> , 2011, 19, 212-220.	1.6	85
31	The "gating" residues Ile199 and Tyr326 in human monoamine oxidase B function in substrate and inhibitor recognition. <i>FEBS Journal</i> , 2011, 278, 4860-4869.	2.2	78
32	Monoamine oxidase is a novel driver of stress-induced premature senescence through inhibition of parkin-mediated mitophagy. <i>Aging Cell</i> , 2018, 17, e12811.	3.0	78
33	Design and synthesis of novel chalcones as potent selective monoamine oxidase-B inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2016, 114, 162-169.	2.6	77
34	Monoamine Oxidases. <i>Sub-Cellular Biochemistry</i> , 2018, 87, 117-139.	1.0	77
35	The FAD Binding Sites of Human Monoamine Oxidases A and B. <i>NeuroToxicology</i> , 2004, 25, 63-72.	1.4	76
36	Monoamine Oxidases, Oxidative Stress, and Altered Mitochondrial Dynamics in Cardiac Ageing. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-8.	1.9	76

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37	Molecular Insights into Human Monoamine Oxidase B Inhibition by the Glitazone Antidiabetes Drugs. <i>ACS Medicinal Chemistry Letters</i> , 2012, 3, 39-42.	1.3	74
38	New roles of flavoproteins in molecular cell biology: Histone demethylase LSD1 and chromatin. <i>FEBS Journal</i> , 2009, 276, 4304-4312.	2.2	71
39	Structural and Mechanistic Studies of Arylalkylhydrazine Inhibition of Human Monoamine Oxidases A and B. <i>Biochemistry</i> , 2008, 47, 5616-5625.	1.2	70
40	Structural Bases for Inhibitor Binding and Catalysis in Polyamine Oxidase. <i>Biochemistry</i> , 2001, 40, 2766-2776.	1.2	63
41	Tight-Binding Inhibition of Human Monoamine Oxidase B by Chromone Analogs: A Kinetic, Crystallographic, and Biological Analysis. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 4203-4212.	2.9	58
42	Biocatalytic Characterization of Human FMO5: Unearthing Baeyer-Villiger Reactions in Humans. <i>ACS Chemical Biology</i> , 2016, 11, 1039-1048.	1.6	57
43	Interactions of Monoamine Oxidases with the Antiepileptic Drug Zonisamide: Specificity of Inhibition and Structure of the Human Monoamine Oxidase B Complex. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 909-912.	2.9	56
44	Structural properties of human monoamine oxidases A and B. <i>International Review of Neurobiology</i> , 2011, 100, 1-11.	0.9	55
45	Lights and Shadows on Monoamine Oxidase Inhibition in Neuroprotective Pharmacological Therapies. <i>Current Topics in Medicinal Chemistry</i> , 2011, 11, 2788-2796.	1.0	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. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 1104-1110.	1.1	48
47	Structural and Mechanistic Studies of Mefegiline Inhibition of Recombinant Human Monoamine Oxidase B. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 8019-8026.	2.9	45
48	The structure of monoamine oxidases: past, present, and future. <i>Journal of Neural Transmission</i> , 2018, 125, 1567-1579.	1.4	40
49	An Unprecedented NADPH Domain Conformation in Lysine Monooxygenase NbtG Provides Insights into Uncoupling of Oxygen Consumption from Substrate Hydroxylation. <i>Journal of Biological Chemistry</i> , 2015, 290, 12676-12688.	1.6	38
50	Stereoselective Activity of 1-Propargyl-4-styrylpiperidine-like Analogues That Can Discriminate between Monoamine Oxidase Isoforms A and B. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 1361-1387.	2.9	33
51	Biocatalytic Properties and Structural Analysis of Eugenol Oxidase from <i>Rhodococcus jostii</i> RHA1: A Versatile Oxidative Biocatalyst. <i>ChemBioChem</i> , 2016, 17, 1359-1366.	1.3	29
52	Discovery and characterization of an F420-dependent glucose-6-phosphate dehydrogenase (Rh-FGD1) from <i>Rhodococcus jostii</i> RHA1. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 2831-2842.	1.7	28
53	Structure-Based Engineering of <i>Phanerochaete chrysosporium</i> Alcohol Oxidase for Enhanced Oxidative Power toward Glycerol. <i>Biochemistry</i> , 2018, 57, 6209-6218.	1.2	25
54	Comparative Analysis of the Neurochemical Profile and MAO Inhibition Properties of <i>N</i> -(Furan-2-ylmethyl)- <i>N</i> -methylprop-2-yn-1-amine. <i>ACS Chemical Neuroscience</i> , 2017, 8, 1026-1035.	1.7	22

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55	Assessment of Tractable Cysteines for Covalent Targeting by Screening Covalent Fragments. <i>ChemBioChem</i> , 2021, 22, 743-753.	1.3	19
56	Inhibition of Pig Liver and <i>Zea mays</i> L. Polyamine Oxidase: A Comparative Study. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2001, 16, 147-155.	0.5	18
57	Tranlycypromine-Based LSD1 Inhibitors: Structure-Activity Relationships, Antiproliferative Effects in Leukemia, and Gene Target Modulation. <i>ChemMedChem</i> , 2020, 15, 643-658.	1.6	18
58	Isolation and characterization of a thermostable F420:NADPH oxidoreductase from <i>Thermobifida fusca</i> . <i>Journal of Biological Chemistry</i> , 2017, 292, 10123-10130.	1.6	17
59	Kinetic Resolution of <i>sec</i> -Thiols by Enantioselective Oxidation with Rationally Engineered 5-(Hydroxymethyl)furfural Oxidase. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2864-2868.	7.2	15
60	Promising Non-cytotoxic Monosubstituted Chalcones to Target Monoamine Oxidase-B. <i>ACS Medicinal Chemistry Letters</i> , 2021, 12, 1151-1158.	1.3	15
61	Two tyrosine residues, Tyr-108 and Tyr-503, are responsible for the deprotonation of phenolic substrates in vanillyl-alcohol oxidase. <i>Journal of Biological Chemistry</i> , 2017, 292, 14668-14679.	1.6	14
62	The multipurpose family of flavoprotein oxidases. <i>The Enzymes</i> , 2020, 47, 63-86.	0.7	12
63	Rational Redesign of Monoamine Oxidase A into a Dehydrogenase to Probe ROS in Cardiac Aging. <i>ACS Chemical Biology</i> , 2020, 15, 1795-1800.	1.6	12
64	Dual Reversible Coumarin Inhibitors Mutually Bound to Monoamine Oxidase B and Acetylcholinesterase Crystal Structures. <i>ACS Medicinal Chemistry Letters</i> , 2022, 13, 499-506.	1.3	11
65	Polystyrene microbridges used in sitting-drop crystallization release 1,4-diphenyl-2-butene, a novel inhibitor of human MAO B. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 1874-1876.	2.5	10
66	Crystallization and preliminary X-ray analysis of polyamine oxidase from <i>Zea mays</i> L.. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1998, 54, 1429-1431.	2.5	8
67	Crystallographic snapshots of UDP-glucuronic acid 4-epimerase ligand binding, rotation, and reduction. <i>Journal of Biological Chemistry</i> , 2020, 295, 12461-12473.	1.6	7
68	Diphenylene Iodonium Is a Noncovalent MAO Inhibitor: A Biochemical and Structural Analysis. <i>ChemMedChem</i> , 2020, 15, 1394-1397.	1.6	4
69	Kinetic Resolution of <i>sec</i> -Thiols by Enantioselective Oxidation with Rationally Engineered 5-(Hydroxymethyl)furfural Oxidase. <i>Angewandte Chemie</i> , 2018, 130, 2914-2918.	1.6	3
70	Monoamine Oxidase Inhibitors: Diverse and Surprising Chemistry with Expanding Pharmacological Potential. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2013, , 309-312.	0.5	2
71	8 Demethylation pathways for histone methyllysine residues. <i>The Enzymes</i> , 2006, 24, 229-242.	0.7	1
72	TOWARDS NEW ANTITUBERCULAR DRUGS. <i>Istituto Lombardo - Accademia Di Scienze E Lettere - Rendiconti Di Scienze</i> , 2015, , .	0.0	0