

Colin W Levy

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,929
citations

304743

22
h-index

265206

42
g-index

50
all docs

50
docs citations

50
times ranked

2556
citing authors

#	ARTICLE	IF	CITATIONS
1	Reductive dehalogenase structure suggests a mechanism for B12-dependent dehalogenation. <i>Nature</i> , 2015, 517, 513-516.	27.8	260
2	Better than Nature: Nicotinamide Biomimetics That Outperform Natural Coenzymes. <i>Journal of the American Chemical Society</i> , 2016, 138, 1033-1039.	13.7	164
3	The road to fully programmable protein catalysis. <i>Nature</i> , 2022, 606, 49-58.	27.8	126
4	Extending the biocatalytic scope of regiocomplementary flavin-dependent halogenase enzymes. <i>Chemical Science</i> , 2015, 6, 3454-3460.	7.4	89
5	Structural basis for enzymatic photocatalysis in chlorophyll biosynthesis. <i>Nature</i> , 2019, 574, 722-725.	27.8	88
6	Design and evolution of an enzyme with a non-canonical organocatalytic mechanism. <i>Nature</i> , 2019, 570, 219-223.	27.8	86
7	Updated structure of <i>Drosophila</i> cryptochrome. <i>Nature</i> , 2013, 495, E3-E4.	27.8	83
8	Catalytic Determinants of Alkene Production by the Cytochrome P450 Peroxygenase OleT1E. <i>Journal of Biological Chemistry</i> , 2017, 292, 5128-5143.	3.4	73
9	A Structure-Guided Switch in the Regioselectivity of a Tryptophan Halogenase. <i>ChemBioChem</i> , 2016, 17, 821-824.	2.6	71
10	Biocatalytic Asymmetric Alkene Reduction: Crystal Structure and Characterization of a Double Bond Reductase from <i>Nicotiana tabacum</i> . <i>ACS Catalysis</i> , 2013, 3, 370-379.	11.2	59
11	Effects of Active-Site Modification and Quaternary Structure on the Regioselectivity of Catechol-O-Methyltransferase. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2683-2687.	13.8	58
12	The major secreted protein of the whipworm parasite tethers to matrix and inhibits interleukin-13 function. <i>Nature Communications</i> , 2019, 10, 2344.	12.8	48
13	Fragment-Based Approaches to the Development of <i>Mycobacterium tuberculosis</i> CYP121 Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 3272-3302.	6.4	47
14	Discovery, characterization and engineering of ligases for amide synthesis. <i>Nature</i> , 2021, 593, 391-398.	27.8	40
15	Structure and Biocatalytic Scope of Coclaurine N-Methyltransferase. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10600-10604.	13.8	37
16	A brain-permeable inhibitor of the neurodegenerative disease target kynurenine 3-monooxygenase prevents accumulation of neurotoxic metabolites. <i>Communications Biology</i> , 2019, 2, 271.	4.4	36
17	Engineering an efficient and enantioselective enzyme for the Morita-Baylis-Hillman reaction. <i>Nature Chemistry</i> , 2022, 14, 313-320.	13.6	34
18	Carboplatin binding to histidine. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 1135-1142.	0.8	33

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19	Discovery and Optimization of Allosteric Inhibitors of Mutant Isocitrate Dehydrogenase 1 (R132H IDH1) Displaying Activity in Human Acute Myeloid Leukemia Cells. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 11120-11137.	6.4	31
20	Structures of <i>Arabidopsis thaliana</i> oxygen-sensing plant cysteine oxidases 4 and 5 enable targeted manipulation of their activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23140-23147.	7.1	31
21	Novel Aryl Substituted Pyrazoles as Small Molecule Inhibitors of Cytochrome P450 CYP121A1: Synthesis and Antimycobacterial Evaluation. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 10257-10267.	6.4	26
22	Effects of Active Site Modification and Quaternary Structure on the Regioselectivity of Catechol-O-Methyltransferase. <i>Angewandte Chemie</i> , 2016, 128, 2733-2737.	2.0	25
23	Rewiring the "Push-Pull" Catalytic Machinery of a Heme Enzyme Using an Expanded Genetic Code. <i>ACS Catalysis</i> , 2020, 10, 2735-2746.	11.2	25
24	The structure of the folded domain from the signature multifunctional protein ICP27 from herpes simplex virus-1 reveals an intertwined dimer. <i>Scientific Reports</i> , 2015, 5, 11234.	3.3	23
25	The herpes viral transcription factor ICP4 forms a novel DNA recognition complex. <i>Nucleic Acids Research</i> , 2017, 45, 8064-8078.	14.5	23
26	Structure and Properties of a Natural Competence-Associated Pilin Suggest a Unique Pilus Tip-Associated DNA Receptor. <i>MBio</i> , 2019, 10, .	4.1	23
27	Structural Basis for Selective Interaction between the ESCRT Regulator HD-PTP and UBAP1. <i>Structure</i> , 2016, 24, 2115-2126.	3.3	22
28	Equatorial Active Site Compaction and Electrostatic Reorganization in Catechol-O-methyltransferase. <i>ACS Catalysis</i> , 2019, 9, 4394-4401.	11.2	21
29	Structure and Mechanism of a Viral Collagen Prolyl Hydroxylase. <i>Biochemistry</i> , 2015, 54, 6093-6105.	2.5	19
30	Design and Synthesis of Imidazole and Triazole Pyrazoles as <i>Mycobacterium Tuberculosis</i> CYP121A1 Inhibitors. <i>ChemistryOpen</i> , 2019, 8, 995-1011.	1.9	19
31	Structure-Activity Relationships of cyclo-(<i>l</i> -Tyrosyl- <i>l</i> -tyrosine) Derivatives Binding to <i>Mycobacterium tuberculosis</i> CYP121: Iodinated Analogues Promote Shift to High-Spin Adduct. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 9792-9805.	6.4	19
32	Structural and catalytic properties of the peroxygenase P450 enzyme CYP152K6 from <i>Bacillus methanolicus</i> . <i>Journal of Inorganic Biochemistry</i> , 2018, 188, 18-28.	3.5	18
33	Novel insights into P450 BM3 interactions with FDA-approved antifungal azole drugs. <i>Scientific Reports</i> , 2019, 9, 1577.	3.3	17
34	Molecular Mechanism of SR Protein Kinase 1 Inhibition by the Herpes Virus Protein ICP27. <i>MBio</i> , 2019, 10, .	4.1	17
35	UbiD domain dynamics underpins aromatic decarboxylation. <i>Nature Communications</i> , 2021, 12, 5065.	12.8	14
36	Structural Characterization and Ligand/Inhibitor Identification Provide Functional Insights into the <i>Mycobacterium tuberculosis</i> Cytochrome P450 CYP126A1. <i>Journal of Biological Chemistry</i> , 2017, 292, 1310-1329.	3.4	13

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37	Design, synthesis and evaluation against Mycobacterium tuberculosis of azole piperazine derivatives as dicycloyrosine (cYY) mimics. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 161-176.	3.0	13
38	The crystal structure of P450-TT heme-domain provides the first structural insights into the versatile class VII P450s. <i>Biochemical and Biophysical Research Communications</i> , 2018, 501, 846-850.	2.1	13
39	Nonequivalence of Second Sphere "Noncatalytic" Residues in Pentaerythritol Tetranitrate Reductase in Relation to Local Dynamics Linked to H-Transfer in Reactions with NADH and NADPH Coenzymes. <i>ACS Catalysis</i> , 2018, 8, 11589-11599.	11.2	12
40	Structural basis of terephthalate recognition by solute binding protein TphC. <i>Nature Communications</i> , 2021, 12, 6244.	12.8	12
41	Response from Tanley et al. to Crystallography and chemistry should always go together: a cautionary tale of protein complexes with cisplatin and carboplatin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 1982-1983.	2.5	11
42	Structural and biochemical characterization of the prenylated flavin mononucleotide-dependent indole-3-carboxylic acid decarboxylase. <i>Journal of Biological Chemistry</i> , 2022, 298, 101771.	3.4	10
43	The Dual PDZ Domain from Postsynaptic Density Protein 95 Forms a Scaffold with Peptide Ligand. <i>Biophysical Journal</i> , 2020, 119, 667-689.	0.5	9
44	A Noncanonical Tryptophan Analogue Reveals an Active Site Hydrogen Bond Controlling Ferryl Reactivity in a Heme Peroxidase. <i>Jacs Au</i> , 2021, 1, 913-918.	7.9	8
45	Structural characterization of CYP144A1 "a cytochrome P450 enzyme expressed from alternative transcripts in Mycobacterium tuberculosis. <i>Scientific Reports</i> , 2016, 6, 26628.	3.3	7
46	Structure and Biocatalytic Scope of Cochlorine N Methyltransferase. <i>Angewandte Chemie</i> , 2018, 130, 10760-10764.	2.0	6
47	Structural identification of conserved RNA binding sites in herpesvirus ORF57 homologs: implications for PAN RNA recognition. <i>Nucleic Acids Research</i> , 2019, 47, 1987-2001.	14.5	4
48	A new strategy for hit generation: Novel in cellulo active inhibitors of CYP121A1 from Mycobacterium tuberculosis via a combined X-ray crystallographic and phenotypic screening approach (XP screen). <i>European Journal of Medicinal Chemistry</i> , 2022, 230, 114105.	5.5	4
49	Studies of the oligomerisation mechanism of a cystatin-based engineered protein scaffold. <i>Scientific Reports</i> , 2019, 9, 9067.	3.3	2
50	Crystallization of PTP Domains. <i>Methods in Molecular Biology</i> , 2016, 1447, 155-180.	0.9	0