Colin W Levy

List of Publications by Year
in descending order

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	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). European Journal of Medicinal Chemistry, 2022, 230, 114105.	5.5	4
2	Structural and biochemical characterization of the prenylated flavin mononucleotide-dependent indole-3-carboxylic acid decarboxylase. Journal of Biological Chemistry, 2022, 298, 101771.	3.4	10
3	Engineering an efficient and enantioselective enzyme for the Moritaâ€“Baylisâ€“Hillman reaction. Nature Chemistry, 2022, 14, 313-320.	13.6	34
4	The road to fully programmable protein catalysis. Nature, 2022, 606, 49-58.	27.8	126
5	Discovery, characterization and engineering of ligases for amide synthesis. Nature, 2021, 593, 391-398.	27.8	40
6	A Noncanonical Tryptophan Analogue Reveals an Active Site Hydrogen Bond Controlling Ferryl Reactivity in a Heme Peroxidase. Jacs Au, 2021, 1, 913-918.	7.9	8
7	UbiD domain dynamics underpins aromatic decarboxylation. Nature Communications, 2021, 12, 5065.	12.8	14
8	Structural basis of terephthalate recognition by solute binding protein TphC. Nature Communications, 2021, 12, 6244.	12.8	12
9	Structures of Arabidopsis thaliana oxygen-sensing plant cysteine oxidases 4 and 5 enable targeted manipulation of their activity. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23140-23147.	7.1	31
10	The Dual PDZ Domain from Postsynaptic Density Protein 95 Forms a Scaffold with Peptide Ligand. Biophysical Journal, 2020, 119, 667-689.	0.5	9
11	Rewiring the â€œPush-Pullâ€•Catalytic Machinery of a Heme Enzyme Using an Expanded Genetic Code. ACS Catalysis, 2020, 10, 2735-2746.	11.2	25
12	Design and Synthesis of Imidazole and Triazole Pyrazoles as Mycobacterium Tuberculosis CYP121A1 Inhibitors. ChemistryOpen, 2019, 8, 995-1011.	1.9	19
13	A brain-permeable inhibitor of the neurodegenerative disease target kynurenine 3-monooxygenase prevents accumulation of neurotoxic metabolites. Communications Biology, 2019, 2, 271.	4.4	36
14	Structureâ€“Activity Relationships of cyclo(<scp>l</scp>-Tyrosyl-<scp>l</scp>-tyrosine) Derivatives Binding to Mycobacterium tuberculosis CYP121: Iodinated Analogues Promote Shift to High-Spin Adduct. Journal of Medicinal Chemistry, 2019, 62, 9792-9805.	6.4	19
15	Studies of the oligomerisation mechanism of a cystatin-based engineered protein scaffold. Scientific Reports, 2019, 9, 9067.	3.3	2
16	The major secreted protein of the whipworm parasite tethers to matrix and inhibits interleukin-13 function. Nature Communications, 2019, 10, 2344.	12.8	48
17	Design and evolution of an enzyme with a non-canonical organocatalytic mechanism. Nature, 2019, 570, 219-223.	27.8	86
18	Structure and Properties of a Natural Competence-Associated Pilin Suggest a Unique Pilus Tip-Associated DNA Receptor. MBio, 2019, 10, .	4.1	23

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19	Equatorial Active Site Compaction and Electrostatic Reorganization in Catechol-O-methyltransferase. ACS Catalysis, 2019, 9, 4394-4401.	11.2	21
20	Novel insights into P450 BM3 interactions with FDA-approved antifungal azole drugs. Scientific Reports, 2019, 9, 1577.	3.3	17
21	Molecular Mechanism of SR Protein Kinase 1 Inhibition by the Herpes Virus Protein ICP27. MBio, 2019, 10, .	4.1	17
22	Structural basis for enzymatic photocatalysis in chlorophyll biosynthesis. Nature, 2019, 574, 722-725.	27.8	88
23	Structural identification of conserved RNA binding sites in herpesvirus ORF57 homologs: implications for PAN RNA recognition. Nucleic Acids Research, 2019, 47, 1987-2001.	14.5	4
24	Design, synthesis and evaluation against Mycobacterium tuberculosis of azole piperazine derivatives as dicyclotyrosine (cYY) mimics. Bioorganic and Medicinal Chemistry, 2018, 26, 161-176.	3.0	13
25	Nonequivalence of Second Sphere â€œNoncatalyticâ€•Residues in Pentaerythritol Tetranitrate Reductase in Relation to Local Dynamics Linked to H-Transfer in Reactions with NADH and NADPH Coenzymes. ACS Catalysis, 2018, 8, 11589-11599.	11.2	12
26	Structure and Biocatalytic Scope of Coclaurine Nâ€Methyltransferase. Angewandte Chemie - International Edition, 2018, 57, 10600-10604.	13.8	37
27	The crystal structure of P450-TT heme-domain provides the first structural insights into the versatile class VII P450s. Biochemical and Biophysical Research Communications, 2018, 501, 846-850.	2.1	13
28	Structural and catalytic properties of the peroxygenase P450 enzyme CYP152K6 from Bacillus methanolicus. Journal of Inorganic Biochemistry, 2018, 188, 18-28.	3.5	18
29	Structure and Biocatalytic Scope of Coclaurine N â€Methyltransferase. Angewandte Chemie, 2018, 130, 10760-10764.	2.0	6
30	Catalytic Determinants of Alkene Production by the Cytochrome P450 Peroxygenase OleTJE. Journal of Biological Chemistry, 2017, 292, 5128-5143.	3.4	73
31	The herpes viral transcription factor ICP4 forms a novel DNA recognition complex. Nucleic Acids Research, 2017, 45, 8064-8078.	14.5	23
32	Structural Characterization and Ligand/Inhibitor Identification Provide Functional Insights into the Mycobacterium tuberculosis Cytochrome P450 CYP126A1. Journal of Biological Chemistry, 2017, 292, 1310-1329.	3.4	13
33	Novel Aryl Substituted Pyrazoles as Small Molecule Inhibitors of Cytochrome P450 CYP121A1: Synthesis and Antimycobacterial Evaluation. Journal of Medicinal Chemistry, 2017, 60, 10257-10267.	6.4	26
34	Structural Basis for Selective Interaction between the ESCRT Regulator HD-PTP and UBAP1. Structure, 2016, 24, 2115-2126.	3.3	22
35	Effects of Activeâ€Site Modification and Quaternary Structure on the Regioselectivity of Catecholâ€Oâ€Methyltransferase. Angewandte Chemie - International Edition, 2016, 55, 2683-2687.	13.8	58
36	A Structureâ€Guided Switch in the Regioselectivity of a Tryptophan Halogenase. ChemBioChem, 2016, 17, 821-824.	2.6	71

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37	Structural characterization of CYP144A1 â€“ a cytochrome P450 enzyme expressed from alternative transcripts in Mycobacterium tuberculosis. Scientific Reports, 2016, 6, 26628.	3.3	7
38	Discovery and Optimization of Allosteric Inhibitors of Mutant Isocitrate Dehydrogenase 1 (R132H IDH1) Displaying Activity in Human Acute Myeloid Leukemia Cells. Journal of Medicinal Chemistry, 2016, 59, 11120-11137.	6.4	31
39	Crystallization of PTP Domains. Methods in Molecular Biology, 2016, 1447, 155-180.	0.9	0
40	Effects of Activeâ€Site Modification and Quaternary Structure on the Regioselectivity of Catecholâ€Oâ€Methyltransferase. Angewandte Chemie, 2016, 128, 2733-2737.	2.0	25
41	Fragment-Based Approaches to the Development of Mycobacterium tuberculosis CYP121 Inhibitors. Journal of Medicinal Chemistry, 2016, 59, 3272-3302.	6.4	47
42	Better than Nature: Nicotinamide Biomimetics That Outperform Natural Coenzymes. Journal of the American Chemical Society, 2016, 138, 1033-1039.	13.7	164
43	The structure of the folded domain from the signature multifunctional protein ICP27 from herpes simplex virus-1 reveals an intertwined dimer. Scientific Reports, 2015, 5, 11234.	3.3	23
44	Extending the biocatalytic scope of regiocomplementary flavin-dependent halogenase enzymes. Chemical Science, 2015, 6, 3454-3460.	7.4	89
45	Structure and Mechanism of a Viral Collagen Prolyl Hydroxylase. Biochemistry, 2015, 54, 6093-6105.	2.5	19
46	Reductive dehalogenase structure suggests a mechanism for B12-dependent dehalogenation. Nature, 2015, 517, 513-516.	27.8	260
47	Response from Tanleyet al.toCrystallography and chemistry should always go together: a cautionary tale of protein complexes with cisplatin and carboplatin. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 1982-1983.	2.5	11
48	Carboplatin binding to histidine. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 1135-1142.	0.8	33
49	Biocatalytic Asymmetric Alkene Reduction: Crystal Structure and Characterization of a Double Bond Reductase from Nicotiana tabacum. ACS Catalysis, 2013, 3, 370-379.	11.2	59
50	Updated structure of Drosophila cryptochrome. Nature, 2013, 495, E3-E4.	27.8	83