David E Heppner

List of Publications by Year
in descending order

37 papers	3,014 citations	279798 23 h-index	395702 33 g-index
41 all docs	41 docs citations	41 times ranked	4471 citing authors

#	Article	IF	Citations
1	Copper Active Sites in Biology. Chemical Reviews, 2014, 114, 3659-3853.	47.7	1,305
2	Single and Dual Targeting of Mutant EGFR with an Allosteric Inhibitor. Cancer Discovery, 2019, 9, 926-943.	9.4	220
3	A Quantitative Tissue-Specific Landscape of Protein Redox Regulation during Aging. Cell, 2020, 180, 968-983.e24.	28.9	220
4	Copper dioxygen (bio)inorganic chemistry. Faraday Discussions, 2011, 148, 11-39.	3.2	156
5	Reaction Coordinate of a Functional Model of Tyrosinase: Spectroscopic and Computational Characterization. Journal of the American Chemical Society, 2009, 131, 6421-6438.	13.7	100
6	Direct cysteine sulfenylation drives activation of the Src kinase. Nature Communications, 2018, 9, 4522.	12.8	87
7	Redox-dependent regulation of epidermal growth factor receptor signaling. Redox Biology, 2016, 8, 24-27.	9.0	74
8	An allosteric inhibitor against the therapy-resistant mutant forms of EGFR in non-small cell lung cancer. Nature Cancer, 2022, 3, 402-417.	13.2	65
9	DUOX1 mediates persistent epithelial EGFR activation, mucous cell metaplasia, and airway remodeling during allergic asthma. JCI Insight, 2016, 1, e88811.	5.0	58
10	Cysteine perthiosulfenic acid (Cys-SSOH): A novel intermediate in thiol-based redox signaling?. Redox Biology, 2018, 14, 379-385.	9.0	56
11	The NADPH Oxidases DUOX1 and NOX2 Play Distinct Roles in Redox Regulation of Epidermal Growth Factor Receptor Signaling. Journal of Biological Chemistry, 2016, 291, 23282-23293.	3.4	49
12	Dual oxidase: a novel therapeutic target in allergic disease. British Journal of Pharmacology, 2018, 175, 1401-1418.	5.4	48
13	Discovery and Optimization of Dibenzodiazepinones as Allosteric Mutant-Selective EGFR Inhibitors. ACS Medicinal Chemistry Letters, 2019, 10, 1549-1553.	2.8	47
14	Models for dioxygen activation by the CuB site of dopamine Î²-monooxygenase and peptidylglycine Î±-hydroxylating monooxygenase. Journal of Biological Inorganic Chemistry, 2006, 11, 197-205.	2.6	44
15	The role of sulfenic acids in cellular redox signaling: Reconciling chemical kinetics and molecular detection strategies. Archives of Biochemistry and Biophysics, 2017, 616, 40-46.	3.0	43
16	Mechanism of the Reduction of the Native Intermediate in the Multicopper Oxidases: Insights into Rapid Intramolecular Electron Transfer in Turnover. Journal of the American Chemical Society, 2014, 136, 17788-17801.	13.7	42
17	Lung epithelial protein disulfide isomerase A3 (PDIA3) plays an important role in influenza infection, inflammation, and airway mechanics. Redox Biology, 2019, 22, 101129.	9.0	42
18	Redox regulation of tyrosine kinase signalling: more than meets the eye. Journal of Biochemistry, 2020, 167, 151-163.	1.7	42

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19	Molecular Origin of Rapid versus Slow Intramolecular Electron Transfer in the Catalytic Cycle of the Multicopper Oxidases. Journal of the American Chemical Society, 2013, 135, 12212-12215.	13.7	41
20	Validation of density functional modeling protocols on experimental bis(Î¼-oxo)/Î¼-Î·2:Î·2-peroxo dicopper equilibria. Journal of Biological Inorganic Chemistry, 2007, 12, 1221-1234.	2.6	35
21	Paradoxical roles of dual oxidases in cancer biology. Free Radical Biology and Medicine, 2017, 110, 117-132.	2.9	34
22	Structural Basis for EGFR Mutant Inhibition by Trisubstituted Imidazole Inhibitors. Journal of Medicinal Chemistry, 2020, 63, 4293-4305.	6.4	33
23	Molecular basis for cooperative binding and synergy of ATP-site and allosteric EGFR inhibitors. Nature Communications, 2022, 13, 2530.	12.8	29
24	Architecture of the NADPH oxidase family of enzymes. Redox Biology, 2022, 52, 102298.	9.0	27
25	Acrolein and thiol-reactive electrophiles suppress allergen-induced innate airway epithelial responses by inhibition of DUOX1 and EGFR. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 311, L913-L923.	2.9	19
26	A structural perspective on targeting the <scp>RTK</scp>/Ras/<scp>MAP</scp> kinase pathway in cancer. Protein Science, 2021, 30, 1535-1553.	7.6	17
27	Dysregulated Redox Regulation Contributes to Nuclear EGFR Localization and Pathogenicity in Lung Cancer. Scientific Reports, 2019, 9, 4844.	3.3	16
28	Structural insights into redox-active cysteine residues of the Src family kinases. Redox Biology, 2021, 41, 101934.	9.0	15
29	Design of a â€œTwo-in-Oneâ€•Mutant-Selective Epidermal Growth Factor Receptor Inhibitor That Spans the Orthosteric and Allosteric Sites. Journal of Medicinal Chemistry, 2022, 65, 1370-1383.	6.4	13
30	Can an ancillary ligand lead to a thermodynamically stable end-on 1 : 1 Cuâ€“O2adduct supported by a Î²-diketiminate ligand?. Dalton Transactions, 2006, , 4773-4782.	3.3	12
31	Rapid Decay of the Native Intermediate in the Metallooxidase Fet3p Enables Controlled Fe^{II} Oxidation for Efficient Metabolism. Journal of the American Chemical Society, 2020, 142, 10087-10101.	13.7	8
32	Oxidationâ€“Dependent Activation of Src Kinase Mediates Epithelial IL-33 Production and Signaling during Acute Airway Allergen Challenge. Journal of Immunology, 2021, 206, 2989-2999.	0.8	7
33	Quinazolinones as allosteric fourth-generation EGFR inhibitors for the treatment of NSCLC. Bioorganic and Medicinal Chemistry Letters, 2022, 68, 128718.	2.2	7
34	Redox regulation of protein kinase signaling. , 2020, , 287-313.		1
35	Abstract 1681: DUOX1 expression in lung cancer disrupts pro-oncogenic activation mechanisms and localization of Src and EGFR. , 2016, , .		1
36	A Role for DUOX1 and NOX2 in the Redox Regulation of EGFR Signaling in the Airway Epithelium. Free Radical Biology and Medicine, 2015, 87, S101-S102.	2.9	0

#	Article	IF	Citations
37	A driving test for oncogenic mutations. Journal of Biological Chemistry, 2019, 294, 9390-9391.	3.4	0