Andrew C Warden

List of Publications by Year
in descending order

52 papers	1,377 citations	279798 23 h-index	361022 35 g-index
57 all docs	57 docs citations	57 times ranked	1945 citing authors

#	Article	IF	Citations
1	Physiology, Biochemistry, and Applications of F₄₂₀- and F_o-Dependent Redox Reactions. Microbiology and Molecular Biology Reviews, 2016, 80, 451-493.	6.6	136
2	Engineered enzymes that retain and regenerate their cofactors enable continuous-flow biocatalysis. Nature Catalysis, 2019, 2, 1006-1015.	34.4	91
3	Expression of 16 Nitrogenase Proteins within the Plant Mitochondrial Matrix. Frontiers in Plant Science, 2017, 8, 287.	3.6	87
4	Rational engineering of a mesohalophilic carbonic anhydrase to an extreme halotolerant biocatalyst. Nature Communications, 2015, 6, 10278.	12.8	80
5	The methanogenic redox cofactor F420 is widely synthesized by aerobic soil bacteria. ISME Journal, 2017, 11, 125-137.	9.8	66
6	F420H2-Dependent Degradation of Aflatoxin and other Furanocoumarins Is Widespread throughout the Actinomycetales. PLoS ONE, 2012, 7, e30114.	2.5	53
7	Production of p-cymene and hydrogen from a bio-renewable feedstockâ€“1,8-cineole (eucalyptus oil). Green Chemistry, 2010, 12, 70-76.	9.0	49
8	Synthesis of Novel Derivatives of 1,4,7-Triazacyclononane. Organic Letters, 2001, 3, 2855-2858.	4.6	40
9	Biosecurity and Yield Improvement Technologies Are Strategic Complements in the Fight against Food Insecurity. PLoS ONE, 2011, 6, e26084.	2.5	37
10	A 5000-Fold Increase in the Specificity of a Bacterial Phosphotriesterase for Malathion through Combinatorial Active Site Mutagenesis. PLoS ONE, 2014, 9, e94177.	2.5	37
11	Comparative Lipidomics and Proteomics of Lipid Droplets in the Mesocarp and Seed Tissues of Chinese Tallow (Triadica sebifera). Frontiers in Plant Science, 2017, 8, 1339.	3.6	37
12	The Redox Cofactor F 420 Protects Mycobacteria from Diverse Antimicrobial Compounds and Mediates a Reductive Detoxification System. Applied and Environmental Microbiology, 2016, 82, 6810-6818.	3.1	35
13	Binding of Inorganic Oxoanions to Macrocyclic Ligands:Â Effect of the Degree of Protonation on Supramolecular Assemblies Formed by Phosphate and [18]aneN6. Inorganic Chemistry, 2004, 43, 6936-6943.	4.0	33
14	Binding of inorganic oxoanions to macrocyclic ligands: interactions of sulfate and dithionate with protonated forms of [18]aneN6. New Journal of Chemistry, 2004, 28, 1301.	2.8	30
15	Cofactor F420-Dependent Enzymes: An Under-Explored Resource for Asymmetric Redox Biocatalysis. Catalysts, 2019, 9, 868.	3.5	29
16	Carbonylâ^'Carboxylatoâ^'Ruthenium Complexes Incorporating Diimine Ligands and Unexpected Cyclometalation of Carboxylate Ligands. Inorganic Chemistry, 2004, 43, 683-691.	4.0	28
17	Micellar refolding of coiled-coil honeybee silk proteins. Journal of Materials Chemistry B, 2013, 1, 3644.	5.8	28
18	Synthesis, Characterization, and Structures of Copper(II)â^'Thiosulfate Complexes Incorporating Tripodal Tetraamine Ligands. Inorganic Chemistry, 2004, 43, 6568-6578.	4.0	27

#	Article	IF	Citations
19	The economics of producing sustainable aviation fuel: a regional case study in <scp>Q</scp>ueensland, <scp>A</scp>ustralia. GCB Bioenergy, 2015, 7, 497-511.	5.6	27
20	Mycobacterial F420H2-Dependent Reductases Promiscuously Reduce Diverse Compounds through a Common Mechanism. Frontiers in Microbiology, 2017, 8, 1000.	3.5	27
21	Controlling the Molecular Structure and Physical Properties of Artificial Honeybee Silk by Heating or by Immersion in Solvents. PLoS ONE, 2012, 7, e52308.	2.5	27
22	Bacterial degradation of strobilurin fungicides: a role for a promiscuous methyl esterase activity of the subtilisin proteases?. Biocatalysis and Biotransformation, 2011, 29, 119-129.	2.0	25
23	fA cellular automaton model of crystalline cellulose hydrolysis by cellulases. Biotechnology for Biofuels, 2011, 4, 39.	6.2	25
24	Biomass production for sustainable aviation fuels: A regional case study in Queensland. Renewable and Sustainable Energy Reviews, 2015, 44, 738-750.	16.4	24
25	Anion binding to azamacrocycles: synthesis and X-ray crystal structures of halide adducts of [12]aneN4 and [18]aneN6. New Journal of Chemistry, 2004, 28, 1160.	2.8	23
26	The synthesis, structure and properties of copper(ii) complexes of asymmetrically functionalized derivatives of 1,4,7-triazacyclononane. Dalton Transactions, 2005, , 1804.	3.3	20
27	Phylogenetic and Kinetic Characterization of a Suite of Dehydrogenases from a Newly Isolated Bacterium, Strain SG61-1L, That Catalyze the Turnover of Guaiacylglycerol-Î²-Guaiacyl Ether Stereoisomers. Applied and Environmental Microbiology, 2015, 81, 8164-8176.	3.1	20
28	The structure of the hexameric atrazine chlorohydrolase AtzA. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 710-720.	2.5	19
29	Plant expression of NifD protein variants resistant to mitochondrial degradation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23165-23173.	7.1	19
30	Cofactor promiscuity among F420-dependent reductases enables them to catalyse both oxidation and reduction of the same substrate. Catalysis Science and Technology, 2012, 2, 1560.	4.1	18
31	X-Ray Structure of the Amidase Domain of AtzF, the Allophanate Hydrolase from the Cyanuric Acid-Mineralizing Multienzyme Complex. Applied and Environmental Microbiology, 2015, 81, 470-480.	3.1	18
32	Cofactor Tail Length Modulates Catalysis of Bacterial F420-Dependent Oxidoreductases. Frontiers in Microbiology, 2017, 8, 1902.	3.5	15
33	Isolation of the (+)-Pinoresinol-Mineralizing Pseudomonas sp. Strain SG-MS2 and Elucidation of Its Catabolic Pathway. Applied and Environmental Microbiology, 2018, 84, .	3.1	15
34	Novel Acetate Binding Modes in [Na2Cu(CH3COO)4(H2O)]Â·H2O. Inorganic Chemistry, 2003, 42, 7037-7040.	4.0	13
35	Bioinspired electrocatalysts for oxygen reduction using recombinant silk films. Journal of Materials Chemistry A, 2017, 5, 10236-10243.	10.3	13
36	A Miniature Gas Sampling Interface with Open Microfluidic Channels: Characterization of Gas-to-Liquid Extraction Efficiency of Volatile Organic Compounds. Micromachines, 2019, 10, 486.	2.9	11

#	Article	IF	Citations
37	Rapid self-organized criticality: Fractal evolution in extreme environments. Physical Review E, 2004, 70, 036118.	2.1	10
38	Computer-Guided Surface Engineering for Enzyme Improvement. Scientific Reports, 2018, 8, 11998.	3.3	10
39	Bacterial catabolism of s-triazine herbicides: biochemistry, evolution and application. Advances in Microbial Physiology, 2020, 76, 129-186.	2.4	10
40	Cellular and Structural Basis of Synthesis of the Unique Intermediate Dehydro-F ₄₂₀ -0 in Mycobacteria. MSystems, 2020, 5, .	3.8	9
41	Adducts formed by tetrahedral anions and protonated forms of 1,4,7-triazacyclononane: competition with chloride anions. CrystEngComm, 2004, 6, 522.	2.6	8
42	Adduct Formation between Organic Oxoanions and Hexaazamacrocycles. Crystal Growth and Design, 2005, 5, 713-720.	3.0	8
43	Synthesis and activity of polyacetylene substituted 2-hydroxy acids, esters, and amides against microbes of clinical importance. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 4555-4557.	2.2	7
44	A Motif in the F Homomorph of Rabbit Haemorrhagic Disease Virus Polymerase Is Important for the Subcellular Localisation of the Protein and Its Ability to Induce Redistribution of Golgi Membranes. Viruses, 2017, 9, 202.	3.3	7
45	Decoding the Rich Biological Properties of Noble Gases: How Well Can We Predict Noble Gas Binding to Diverse Proteins?. ChemMedChem, 2018, 13, 1931-1938.	3.2	6
46	X-Ray Structure and Mutagenesis Studies of the N-Isopropylammelide Isopropylaminohydrolase, AtzC. PLoS ONE, 2015, 10, e0137700.	2.5	5
47	Design of silk proteins with increased heme binding capacity and fabrication of silk-heme materials. Journal of Inorganic Biochemistry, 2017, 177, 219-227.	3.5	5
48	(4-Bromophenyl)(5-dimethylamino-1,1-dioxo-2-phenyl-1,2-dihydro-1Î»6,2,4,6-thiatriazin-3-yl)methanone. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o3794-o3796.	0.2	2
49	Synthesis of Diyne Substituted 2-Hydroxy Acids, Esters, and Amides. Australian Journal of Chemistry, 2010, 63, 719.	0.9	1
50	A method for topical dosing of invertebrates with pesticide for use in feeding experiments. Ecotoxicology, 2021, 30, 381-386.	2.4	1
51	7-(Piperidin-1-yl)-2-propyl-4-oxa-5-thia-1,6,7a-triazaindene 5,5-dioxide, a derivative of a new ring system. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o4470-o4472.	0.2	0
52	7-(Piperidin-1-yl)-2-propyl-4-oxa-5-thia-1,6,7a-triazaindene 5,5-dioxide, a derivative of a new ring system. Corrigendum. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, e7-e7.	0.2	0