Ron Wever

List of Publications by Year
in descending order

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66	3,625	94433 37	133252 59
papers	citations	h-index	g-index

70	70	70	2233
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Selective aerobic oxidation reactions using a combination of photocatalytic water oxidation and enzymatic oxyfunctionalizations. Nature Catalysis, 2018, 1, 55-62.	34.4	272
2	Implications for the Catalytic Mechanism of the Vanadium-Containing Enzyme Chloroperoxidase from the Fungus Curvularia inaequalis by X-Ray Structures of the Native and Peroxide Form. Biological Chemistry, 1997, 378, 309-15.	2.5	253
3	Brominating activity of the seaweed Ascophyllum nodosum: impact on the biosphere. Environmental Science & Technology, 1991, 25, 446-449.	10.0	152
4	The chloroperoxidase from the fungus Curvularia inaequalis; a novel vanadium enzyme. BBA - Proteins and Proteomics, 1993, 1161, 249-256.	2.1	139
5	Electron paramagnetic resonance studies on conformational states and metal ion exchange properties of vanadium bromoperoxidase. Biochemistry, 1988, 27, 1629-1635.	2.5	127
6	Enantioselective Sulfoxidation Catalyzed by Vanadium Haloperoxidases. Inorganic Chemistry, 1998, 37, 6780-6784.	4.0	123
7	X-ray crystal structures of active site mutants of the vanadium-containing chloroperoxidase from the fungus Curvularia inaequalis. Journal of Biological Inorganic Chemistry, 1999, 4, 209-219.	2.6	117
8	Heterologous Expression of the Vanadium-containing Chloroperoxidase from Curvularia inaequalis in Saccharomyces cerevisiae and Site-directed Mutagenesis of the Active Site Residues His496, Lys353, Arg360, and Arg490. Journal of Biological Chemistry, 1999, 274, 23820-23827.	3.4	110
9	Isolation procedure and some properties of the bromoperoxidase from the seaweed Ascophyllum nodosum. BBA - Proteins and Proteomics, 1985, 830, 181-186.	2.1	107
10	The role of vanadium haloperoxidases in the formation of volatile brominated compounds and their impact on the environment. Dalton Transactions, 2013, 42, 11778.	3.3	106
11	Human eosinophil peroxidase: a novel isolation procedure, spectral properties and chlorinating activity. FEBS Letters, 1981, 123, 327-331.	2.8	80
12	Laboratory-evolved Vanadium Chloroperoxidase Exhibits 100-Fold Higher Halogenating Activity at Alkaline pH. Journal of Biological Chemistry, 2006, 281, 9738-9744.	3.4	77
13	51V Solid-State Magic Angle Spinning NMR Spectroscopy of Vanadium Chloroperoxidase. Journal of the American Chemical Society, 2006, 128, 5190-5208.	13.7	76
14	Peroxidase and Phosphatase Activity of Active-site Mutants of Vanadium Chloroperoxidase from the Fungus Curvularia inaequalis. Journal of Biological Chemistry, 2000, 275, 11650-11657.	3.4	74
15	Antiarthritic drugs containing thiol groups scavenge hypochlorite and inhibit its formation by myeloperoxidase from human leukocytes. A therapeutic mechanism of these drugs in rheumatoid arthritis?. Arthritis and Rheumatism, 1985, 28, 1228-1233.	6.7	73
16	Sulfoxidation mechanism of vanadium bromoperoxidase fromAscophyllum nodosum. FEBS Journal, 2001, 268, 132-138.	0.2	71
17	14N-coordination to VO2+in reduced vanadium bromoperoxidase, an electron spin echo study. FEBS Letters, 1988, 235, 93-97.	2.8	63
18	Vanadium Chloroperoxidase as a Catalyst for Hydrogen Peroxide Disproportionation to Singlet Oxygen in Mildly Acidic Aqueous Environment. Advanced Synthesis and Catalysis, 2003, 345, 849-858.	4.3	58

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19	Selective Oxidative Decarboxylation of Amino Acids to Produce Industrially Relevant Nitriles by Vanadium Chloroperoxidase. ChemSusChem, 2012, 5, 1199-1202.	6.8	58
20	The killing of newborn larvae ofTrichinella spiralis by eosinophil peroxidasein vitro. European Journal of Immunology, 1981, 11, 843-845.	2.9	57
21	The bromoperoxidase from the red alga Ceramium rubrum also contains vanadium as a prosthetic group. BBA - Proteins and Proteomics, 1987, 912, 287-291.	2.1	54
22	Continuousâ€Flow Reactorâ€Based Enzymatic Synthesis of Phosphorylated Compounds on a Large Scale. Chemistry - A European Journal, 2012, 18, 6604-6609.	3.3	54
23	Some structural aspects of vanadium bromoperoxidase from Ascophyllum nodosum. BBA - Proteins and Proteomics, 1990, 1040, 192-198.	2.1	53
24	Probing the scope of the sulfoxidation activity of vanadium bromoperoxidase from Ascophyllum nodosum. Tetrahedron: Asymmetry, 1999, 10, 4563-4572.	1.8	53
25	Bromoperoxidase activity of vanadate-substituted acid phosphatases fromShigella flexneriandSalmonella entericaser.typhimurium. FEBS Journal, 2002, 269, 2162-2167.	0.2	53
26	Chemoenzymatic Halogenation of Phenols by using the Haloperoxidase from Curvularia inaequalis. ChemCatChem, 2015, 7, 4035-4038.	3.7	52
27	Regioselective Phosphorylation of Carbohydrates and Various Alcohols by Bacterial Acid Phosphatases; Probing the Substrate Specificity of the Enzyme fromShigella flexneri. Advanced Synthesis and Catalysis, 2005, 347, 1155-1162.	4.3	51
28	Simple Enzymatic in situ Generation of Dihydroxyacetone Phosphate and Its Use in a Cascade Reaction for the Production of Carbohydrates:Â Increased Efficiency by Phosphate Cycling. Journal of Organic Chemistry, 2006, 71, 6244-6247.	3.2	51
29	A comparison of different (vanadium) bromoperoxidases; the bromoperoxidase from Corallina pilulifera is also a vanadium enzyme. BBA - Proteins and Proteomics, 1989, 998, 63-68.	2.1	50
30	Cofactor and Substrate Binding to Vanadium Chloroperoxidase Determined by UVâˆ'VIS Spectroscopy and Evidence for High Affinity for Pervanadateâ€. Biochemistry, 2000, 39, 1133-1141.	2.5	50
31	Synthesis of Carbohydrates in a Continuous Flow Reactor by Immobilized Phosphatase and Aldolase. ChemSusChem, 2012, 5, 2348-2353.	6.8	50
32	A new model for the membrane topology of glucose-6-phosphatase: the enzyme involved in von Gierke disease. FEBS Letters, 1997, 409, 317-319.	2.8	49
33	Synthesis of non-natural carbohydrates from glycerol and aldehydes in a one-pot four-enzyme cascade reaction. Green Chemistry, 2011, 13, 2895.	9.0	49
34	Cloning and expression of the gene for a vanadium-dependent bromoperoxidase from a marine macro-alga,Corallina pilulifera1. FEBS Letters, 1998, 428, 105-110.	2.8	47
35	Isolation, Characterization, and Primary Structure of the Vanadium Chloroperoxidase from the Fungus Embellisia didymospora. Journal of Biological Chemistry, 1998, 273, 23381-23387.	3.4	44
36	Kinetic characterization of active site mutants Ser402Ala and Phe397His of vanadium chloroperoxidase from the fungus Curvularia inaequalis. Inorganica Chimica Acta, 2003, 356, 288-296.	2.4	43

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37	Phosphorylation and dephosphorylation of polyhydroxy compounds by class A bacterial acid phosphatases. Organic and Biomolecular Chemistry, 2003, 1, 2833.	2.8	40
38	Marine Vanadium-Dependent Haloperoxidases, Their Isolation, Characterization, and Application. Methods in Enzymology, 2018, 605, 141-201.	1.0	35
39	Thymol Bromination â€“ A Comparison between Enzymatic and Chemical Catalysis. European Journal of Inorganic Chemistry, 2015, 2015, 3519-3525.	2.0	34
40	X-ray structures of apo and tungstate derivatives of vanadium chloroperoxidase from the fungus Curvularia inaequalis. Inorganica Chimica Acta, 1998, 273, 160-166.	2.4	33
41	Vanadium Chloroperoxidases: The Missing Link in the Formation of Chlorinated Compounds and Chloroform in the Terrestrial Environment?. Chemistry - an Asian Journal, 2017, 12, 1997-2007.	3.3	33
42	Ozone destruction by algae in the Arctic atmosphere. Nature, 1988, 335, 501-501.	27.8	32
43	⁵¹V NMR Crystallography of Vanadium Chloroperoxidase and Its Directed Evolution P395D/L241V/T343A Mutant: Protonation Environments of the Active Site. Journal of the American Chemical Society, 2015, 137, 5618-5628.	13.7	30
44	Vanadium K-edge XAS studies on the native and peroxo-forms of vanadium chloroperoxidase from Curvularia inaequalis. Journal of Inorganic Biochemistry, 2010, 104, 657-664.	3.5	27
45	Vanadium - an element involved in the biosynthesis of halogenated compounds and nitrogen fixation. FEBS Letters, 1987, 216, 1-3.	2.8	26
46	Crystal Structure of a Trapped Phosphate Intermediate in Vanadium Apochloroperoxidase Catalyzing a Dephosphorylation Reaction. Biochemistry, 2008, 47, 929-934.	2.5	26
47	Expression of the vanadium-dependent bromoperoxidase gene from a marine macro-alga Corallina pilulifera in Saccharomyces cerevisiae and characterization of the recombinant enzyme. Phytochemistry, 2002, 60, 595-601.	2.9	25
48	Improvement of an Acid Phosphatase/DHAPâ€Dependent Aldolase Cascade Reaction by Using Directed Evolution. ChemBioChem, 2009, 10, 2230-2235.	2.6	25
49	Enzymatic Sulfation of Phenolic Hydroxy Groups of Various Plant Metabolites by an Arylsulfotransferase. European Journal of Organic Chemistry, 2015, 2015, 534-541.	2.4	25
50	Sulfation of Various Alcoholic Groups by an Arylsulfate Sulfotransferase from Desulfitobacterium hafniense and Synthesis of Estradiol Sulfate. Advanced Synthesis and Catalysis, 2012, 354, 3501-3508.	4.3	24
51	The regulation of the vanadium chloroperoxidase from Curvularia inaequalis. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1997, 1352, 73-84.	2.4	21
52	Preparation of silybin and isosilybin sulfates by sulfotransferase from Desulfitobacterium hafniense. Journal of Molecular Catalysis B: Enzymatic, 2013, 89, 24-27.	1.8	21
53	Dissolving Lignin in Water through Enzymatic Sulfation with Aryl Sulfotransferase. ChemSusChem, 2017, 10, 2267-2273.	6.8	17
54	Exploiting Acid Phosphatases in the Synthesis of Phosphorylated Monoalcohols and Diols. European Journal of Organic Chemistry, 2016, 2016, 45-50.	2.4	16

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55	Inhibition of vanadium chloroperoxidase from the fungus Curvularia inaequalis by hydroxylamine, hydrazine and azide and inactivation by phosphate. Journal of Inorganic Biochemistry, 2004, 98, 625-631.	3.5	14
56	Singlet oxygenation in microemulsion catalysed by vanadium chloroperoxidase. Journal of Molecular Catalysis B: Enzymatic, 2009, 56, 259-264.	1.8	14
57	Chemoenzymatic Halocyclization of 4-Pentenoic Acid at Preparative Scale. ACS Sustainable Chemistry and Engineering, 2020, 8, 2602-2607.	6.7	14
58	Characterization of molybdenum and vanadium centres in enzymes by X-ray absorption spectroscopy. Polyhedron, 1989, 8, 1649-1652.	2.2	13
59	Structure and Function of Vanadium Haloperoxidases. , 2012, , 95-125.		12
60	Substrate Engineering and its Synthetic Utility in the Sulfation of Primary Aliphatic Alcohol Groups by a Bacterial Arylsulfotransferase. Advanced Synthesis and Catalysis, 2015, 357, 2629-2632.	4.3	11
61	Towards Preparative Chemoenzymatic Oxidative Decarboxylation of Glutamic Acid. ChemCatChem, 2020, 12, 2180-2183.	3.7	11
62	Sulfation made easy: A new versatile donor for enzymatic sulfation by a bacterial arylsulfotransferase. Journal of Molecular Catalysis B: Enzymatic, 2016, 129, 43-46.	1.8	10
63	Optimization of the Kinetic Resolution of thedl-Phosphomonoesters of Threonine and Serine by Random Mutagenesis of the Acid Phosphatase fromSalmonella enterica. Advanced Synthesis and Catalysis, 2007, 349, 1349-1352.	4.3	9
64	Phosphorylation by Alkaline Phosphatase: Immobilization and Synthetic Potential. International Journal of Chemistry, 2013, 5, .	0.3	9
65	Efficient Regeneration of NADPH in a 3â€Enzyme Cascade Reaction by in situ Generation of Glucose 6â€Phosphate from Glucose and Pyrophosphate. Advanced Synthesis and Catalysis, 2011, 353, 2339-2344.	4.3	8
66	Sulfated phenolic acids in plants. Planta, 2022, 255, 124.	3.2	6