Keith E Taylor

List of Publications by Year
in descending order

63 papers	2,681 citations	236612 25 h-index	182168 51 g-index
65 all docs	65 docs citations	65 times ranked	2159 citing authors

#	Article	IF	Citations
1	A Short Review of Techniques for Phenol Removal from Wastewater. Current Pollution Reports, 2016, 2, 157-167.	3.1	503
2	Removal of phenolic compounds from synthetic wastewater using soybean peroxidase. Water Research, 1999, 33, 3012-3018.	5.3	196
3	A Continuous System for Fe0Reduction of Nitrobenzene in Synthetic Wastewater. Environmental Science & Technology, 2001, 35, 3231-3236.	4.6	145
4	Phenol Conversion and Dimeric Intermediates in Horseradish Peroxidase-Catalyzed Phenol Removal from Water. Environmental Science & Technology, 1994, 28, 2154-2160.	4.6	124
5	A model for the Protective Effect of Additives on the Activity of Horseradish Peroxidase in the Removal of Phenol. Enzyme and Microbial Technology, 1998, 22, 315-322.	1.6	114
6	Laccase-catalyzed removal of bisphenol-A from water: Protective effect of PEG on enzyme activity. Water Research, 2005, 39, 4309-4316.	5.3	105
7	Optimization of the reaction conditions for enzymatic removal of phenol from wastewater in the presence of polyethylene glycol. Water Research, 1993, 27, 1701-1706.	5.3	104
8	Enzyme Catalyzed Polymerization and Precipitation of Aromatic Compounds from Wastewater. Water Science and Technology, 1992, 25, 157-164.	1.2	95
9	Enzyme catalyzed polymerization and precipitation of aromatic compounds from aqueous solution. Canadian Journal of Civil Engineering, 1993, 20, 725-735.	0.7	88
10	Comparison of additives in the removal of phenolic compounds by peroxidase-catalyzed polymerization. Water Research, 1997, 31, 2699-2704.	5.3	83
11	A new peroxidase color reaction: Oxidative coupling of 3-methyl-2-benzothiazolinone hydrazone (MBTH) with its formaldehyde azine. Application to glucose and choline oxidases. Analytical Biochemistry, 1983, 129, 329-336.	1.1	72
12	Comparison of soybean peroxidase with laccase in the removal of phenol from synthetic and refinery wastewater samples. Journal of Chemical Technology and Biotechnology, 2009, 84, 761-769.	1.6	64
13	Enzymatic removal of selected aromatic contaminants from wastewater by a fungal peroxidase fromCoprinus macrorhizus in batch reactors. Journal of Chemical Technology and Biotechnology, 1994, 61, 179-182.	1.6	58
14	Immobilized enzyme catalyzed removal of 4-chlorophenol from aqueous solution. Water Research, 1993, 27, 883-890.	5.3	50
15	Enzyme-Catalyzed Removal of Phenol from Refinery Wastewater: Feasibility Studies. Water Environment Research, 2001, 73, 165-172.	1.3	50
16	Nicotinamide coenzyme regeneration by dihydropyridine and pyridinium compounds. Journal of the American Chemical Society, 1976, 98, 5689-5694.	6.6	46
17	Optimization of phenol removal by a fungal peroxidase from Coprinus macrorhizus using batch, continuous, and discontinuous semibatch reactors. Enzyme and Microbial Technology, 1994, 16, 120-124.	1.6	38
18	Crude soybean hull peroxidase treatment of phenol in synthetic and real wastewater: Enzyme economy enhanced by Triton X-100. Enzyme and Microbial Technology, 2014, 55, 65-71.	1.6	34

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19	Laccase-catalyzed removal of 2,4-dimethylphenol from synthetic wastewater: Effect of polyethylene glycol and dissolved oxygen. Chemosphere, 2008, 71, 1709-1717.	4.2	33
20	Soybean peroxidase for industrial wastewater treatment: a mini review. Journal of Environmental Engineering and Science, 2014, 9, 181-186.	0.3	32
21	A procedure for the direct determination of micromolar quantities of lecithin employing enzymes as reagents. Microchemical Journal, 1979, 24, 239-258.	2.3	30
22	Dihydroxyacetone Reductase from Mucor javanicus. 1. Isolation and Properties. FEBS Journal, 1977, 75, 423-432.	0.2	28
23	Soybean peroxidase-catalyzed removal of phenylenediamines and benzenediols from water. Enzyme and Microbial Technology, 2009, 45, 253-260.	1.6	28
24	Dihydroxyacetone Reductase from Mucor javanicus. 2. Identification of the Physiological Substrate and Reactivity towards Related Compounds. FEBS Journal, 1977, 75, 433-439.	0.2	27
25	A simple lab-scale extraction of soybean hull peroxidase shows wide variation among cultivars. Industrial Crops and Products, 2013, 48, 13-18.	2.5	26
26	Soybean peroxidase trapped in product precipitate during phenol polymerization retains activity and may be recycled. Journal of Chemical Technology and Biotechnology, 2013, 88, 1429-1435.	1.6	26
27	Effect of H₂O₂ addition mode on enzymatic removal of phenol from wastewater in the presence of polyethylene glycol. Canadian Journal of Chemical Engineering, 1994, 72, 881-886.	0.9	25
28	Removal of Nitroaromatics from Synthetic Wastewater Using Two-Step Zero-Valent Iron Reduction and Peroxidase-Catalyzed Oxidative Polymerization. Water Environment Research, 2002, 74, 280-287.	1.3	25
29	Soybean Peroxidase-Catalyzed Oxidative Polymerization of Phenols in Coal-Tar Wastewater: Comparison of Additives. Environmental Engineering Science, 2010, 27, 967-975.	0.8	25
30	Removal of dinitrotoluenes from water via reduction with iron and peroxidase-catalyzed oxidative polymerization: A comparison between Arthromyces ramosus peroxidase and soybean peroxidase. Chemosphere, 2007, 67, 1485-1491.	4.2	23
31	Kinetic model-aided reactor design for peroxidase-catalyzed removal of phenol in the presence of polyethylene glycol. Journal of Chemical Technology and Biotechnology, 1999, 74, 519-526.	1.6	22
32	The determination of lecithin and total choline-containing phospholipids in amniotic fluid employing enzymes as reagents. Microchemical Journal, 1980, 25, 153-168.	2.3	21
33	Enzymatic Treatment of Sulfonated Aromatic Amines Generated from Reductive Degradation of Reactive Azo Dyes. Water Environment Research, 2007, 79, 351-356.	1.3	21
34	Oligomerization of 3-substituted quinolines by catalytic activity of soybean peroxidase as a wastewater treatment. Product formation and computational studies. Chemical Engineering Journal, 2019, 364, 340-348.	6.6	15
35	Removal of Selected Pharmaceuticals and Personal Care Products from Wastewater using Soybean Peroxidase. Environmental Management, 2019, 63, 408-415.	1.2	15
36	A continuous spectrophotometric method for monitoring phospholipase D-catalyzed reactions of physiological substrates. Journal of Proteomics, 1991, 23, 217-226.	2.4	14

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37	Laccaseâ€Catalyzed Removal of Diphenylamine from Synthetic Wastewater. Water Environment Research, 2008, 80, 2118-2124.	1.3	14
38	Laccase-Catalyzed Removal of Phenol and Benzenediols from Wastewater. Journal of Hazardous, Toxic, and Radioactive Waste, 2011, 15, 13-20.	1.2	14
39	Additive Effect on Soybean Peroxidase-Catalyzed Removal of Anilines from Water. Environmental Engineering Science, 2016, 33, 133-139.	0.8	14
40	Oxidative coupling of various aromatic phenols and anilines in water using a laccase from <i>Trametes villosa</i> and insights into the â€˜PEG effectâ€™. Journal of Chemical Technology and Biotechnology, 2012, 87, 21-32.	1.6	13
41	Inactivation of Enzyme Laccase and Role of Cosubstrate Oxygen in Enzymatic Removal of Phenol from Water. Water Environment Research, 2007, 79, 858-867.	1.3	12
42	Soybean Peroxidaseâ€Catalyzed Removal of an Aromatic Thiol, 2â€Mercaptobenzothiazole, from Water. Water Environment Research, 2010, 82, 2285-2289.	1.3	12
43	Response Surface Methodology for Optimization of Enzyme-Catalyzed Azo Dye Decolorization. Journal of Environmental Engineering, ASCE, 2019, 145, .	0.7	12
44	Hydroxymethylbenzimidazole carboxylic acid models of the Asp-His-Ser charge relay system of serine proteases. Canadian Journal of Chemistry, 1977, 55, 1653-1657.	0.6	11
45	Soybean peroxidase-catalysed removal of benzidines from water. Journal of Environmental Engineering and Science, 2015, 10, 73-80.	0.3	9
46	Molecular and biochemical characterization of recombinant cel12B, cel8C, and peh28 overexpressed in Escherichia coli and their potential in biofuel production. Biotechnology for Biofuels, 2017, 10, 52.	6.2	8
47	A simple colorimetric method for analysis of aqueous phenylenediamines and aniline. Journal of Environmental Engineering and Science, 2005, 4, 423-427.	0.3	7
48	Soybean Peroxidase-Catalyzed Treatment of Azo Dyes with or without FeÂ° Pretreatment. Water Environment Research, 2018, 90, 675-684.	1.3	7
49	Enzymatic treatment for removal of hazardous aqueous arylamines, 4,4â€²-methylenedianiline and 4,4â€²-thiodianiline. Chemosphere, 2019, 235, 365-372.	4.2	7
50	Soybean Peroxidase Catalyzed Decoloration of Acid Azo Dyes. Journal of Health and Pollution, 2020, 10, 200307.	1.8	7
51	Soybean peroxidaseâ€catalyzed degradation of a sulfonated dye and its azoâ€cleavage product. Journal of Chemical Technology and Biotechnology, 2021, 96, 423-430.	1.6	6
52	Soybean peroxidase-catalyzed oligomerization of arylamines in water: optimization, kinetics, products and cost. Journal of Environmental Chemical Engineering, 2020, 8, 103871.	3.3	5
53	Enzymatic determination of phosphatidylcholine in human erythrocyte membranes. Microchemical Journal, 1982, 27, 583-591.	2.3	4
54	Recombinant E. coli Cellulases, Î²-Glucosidase, and Polygalacturonase Convert a Citrus Processing Waste into Biofuel Precursors. ACS Sustainable Chemistry and Engineering, 2018, 6, 7304-7312.	3.2	4

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55	Soybean Peroxidase-Induced Treatment of Dye-Derived Arylamines in Water. Water, Air, and Soil Pollution, 2018, 229, 1.	1.1	4
56	Removal of benzene from wastewater via Fenton pre-treatment followed by enzyme catalyzed polymerization. Water Science and Technology, 2011, 63, 1663-1668.	1.2	3
57	Phenolic Precipitates from Soybean Peroxidaseâ€“Catalyzed Wastewater Treatment: Concentrated Waste Serves to Concentrate Its Progenitor. Journal of Hazardous, Toxic, and Radioactive Waste, 2016, 20, 04015023.	1.2	3
58	Kinetics and thermodynamics of thermal inactivation for recombinant <i>Escherichia coli</i> cellulases, cel12B, cel8C, and polygalacturonase, peh28; biocatalysts for biofuel precursor production. Journal of Biochemistry, 2021, 169, 109-117.	0.9	2
59	On the use of 3-methyl-2-benzothiazolinone hydrazone to determine cell surface sialic acid: A simplified procedure and a caution. Microchemical Journal, 1985, 31, 275-280.	2.3	1
60	Sorption properties of peroxidase-catalysed polyphenolic resin enable aromaticsâ€™ capture. Journal of Environmental Engineering and Science, 2019, 14, 90-96.	0.3	1
61	Biocatalytic oligomerization of azoles; experimental and computational studies. Environmental Science: Water Research and Technology, 0, , .	1.2	1
62	Elimination of selected heterocyclic aromatic emerging contaminants from water using soybean peroxidase. Environmental Science and Pollution Research, 2021, 28, 37570-37579.	2.7	1
63	Synthesis and characterization of a synthetic heme-based oxygen carrier. Journal of Chemical Technology and Biotechnology, 2005, 80, 1026-1030.	1.6	0