James A Nicell

List of Publications by Year
in descending order

87 papers	4,873 citations	81839 39 h-index	95218 68 g-index
90 all docs	90 docs citations	90 times ranked	4342 citing authors

#	Article	IF	Citations
1	Potential Applications of Enzymes in Waste Treatment. Journal of Chemical Technology and Biotechnology, 1997, 69, 141-153.	1.6	329
2	Leaching of the plasticizer di(2-ethylhexyl)phthalate (DEHP) from plastic containers and the question of human exposure. Applied Microbiology and Biotechnology, 2014, 98, 9967-9981.	1.7	316
3	A model of peroxidase activity with inhibition by hydrogen peroxide. Enzyme and Microbial Technology, 1997, 21, 302-310.	1.6	217
4	Assessment and regulation of odour impacts. Atmospheric Environment, 2009, 43, 196-206.	1.9	211
5	Removal of phenols from a foundry wastewater using horseradish peroxidase. Water Research, 1996, 30, 954-964.	5.3	181
6	Plasticizer metabolites in the environment. Water Research, 2004, 38, 3693-3698.	5.3	168
7	Impact of reaction conditions on the laccase-catalyzed conversion of bisphenol A. Bioresource Technology, 2006, 97, 1431-1442.	4.8	158
8	Model development for horseradish peroxidase catalyzed removal of aqueous phenol. Biotechnology and Bioengineering, 1997, 54, 251-261.	1.7	153
9	Detoxification of phenolic solutions with horseradish peroxidase and hydrogen peroxide. Water Research, 2002, 36, 4041-4052.	5.3	138
10	Characterization of soybean peroxidase for the treatment of aqueous phenols. Bioresource Technology, 1999, 70, 69-79.	4.8	123
11	Characterization of Trametes versicolor laccase for the transformation of aqueous phenol. Bioresource Technology, 2008, 99, 7825-7834.	4.8	107
12	How Green is Your Plasticizer?. Polymers, 2018, 10, 834.	2.0	102
13	Treatment of aqueous phenol with soybean peroxidase in the presence of polyethylene glycol. Bioresource Technology, 2000, 73, 139-146.	4.8	100
14	Designing green plasticizers: Influence of molecule geometry and alkyl chain length on the plasticizing effectiveness of diester plasticizers in PVC blends. Polymer, 2016, 89, 18-27.	1.8	100
15	Reactor development for peroxidase catalyzed polymerization and precipitation of phenols from wastewater. Water Research, 1993, 27, 1629-1639.	5.3	99
16	Kinetics of horseradish peroxidase-catalysed polymerization and precipitation of aqueous 4-chlorophenol. Journal of Chemical Technology and Biotechnology, 1994, 60, 203-215.	1.6	94
17	Enzyme catalyzed polymerization and precipitation of aromatic compounds from aqueous solution. Canadian Journal of Civil Engineering, 1993, 20, 725-735.	0.7	88
18	Characterization of tyrosinase for the treatment of aqueous phenols. Bioresource Technology, 2000, 74, 191-199.	4.8	85

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19	Efficacy of mediators for enhancing the laccase-catalyzed oxidation of aqueous phenol. Enzyme and Microbial Technology, 2007, 41, 353-361.	1.6	85
20	Biodegradation of plasticizers by Rhodococcus rhodochrous. Biodegradation, 2002, 13, 343-352.	1.5	77
21	Refined sewer epidemiology mass balances and their application to heroin, cocaine and ecstasy. Environment International, 2011, 37, 1236-1252.	4.8	75
22	Laccase-catalysed oxidation of aqueous triclosan. Journal of Chemical Technology and Biotechnology, 2006, 81, 1344-1352.	1.6	72
23	Plasticizers and their degradation products in the process streams of a large urban physicochemical sewage treatment plant. Water Research, 2008, 42, 153-162.	5.3	71
24	Treatment of aqueous pentachlorophenol by horseradish peroxidase and hydrogen peroxide. Water Research, 2000, 34, 1629-1637.	5.3	68
25	Origin of 2-ethylhexanol as a VOC. Environmental Pollution, 2006, 140, 181-185.	3.7	67
26	Laccase-catalyzed oxidation of bisphenol A with the aid of additives. Process Biochemistry, 2006, 41, 1029-1037.	1.8	66
27	Assessment of soluble products of peroxidase-catalyzed polymerization of aqueous phenol. Enzyme and Microbial Technology, 1999, 25, 185-193.	1.6	65
28	Color and Toxicity Removal following Tyrosinase-Catalyzed Oxidation of Phenols. Biotechnology Progress, 2000, 16, 533-540.	1.3	63
29	Biodegradation of a synthetic co-polyester by aerobic mesophilic microorganisms. Polymer Degradation and Stability, 2008, 93, 1479-1485.	2.7	63
30	Metabolites from the biodegradation of di-ester plasticizers by Rhodococcus rhodochrous. Science of the Total Environment, 2006, 366, 286-294.	3.9	62
31	Sewer epidemiology mass balances for assessing the illicit use of methamphetamine, amphetamine and tetrahydrocannabinol. Science of the Total Environment, 2012, 421-422, 144-162.	3.9	62
32	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
33	Treatment of a foul condensate from kraft pulping with horseradish peroxidase and hydrogen peroxide. Water Research, 2001, 35, 485-495.	5.3	54
34	Influence of windbreaks on livestock odour dispersion plume in the field. Agriculture, Ecosystems and Environment, 2006, 116, 263-272.	2.5	46
35	Distribution and characteristics of wastewater treatment plants within the global river network. Earth System Science Data, 2022, 14, 559-577.	3.7	45
36	Biodegradation of plasticizers by Rhodotorula rubra. Environmental Toxicology and Chemistry, 2003, 22, 1244-1251.	2.2	42

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37	Risk assessment of down-the-drain chemicals at large spatial scales: Model development and application to contaminants originating from urban areas in the Saint Lawrence River Basin. Science of the Total Environment, 2016, 541, 825-838.	3.9	42
38	Calibration of conceptual rainfallâ€“runoff models using global optimisation methods with hydrologic process-based parameter constraints. Journal of Hydrology, 2007, 334, 455-466.	2.3	41
39	Human Health Relevance of Pharmaceutically Active Compounds in Drinking Water. AAPS Journal, 2015, 17, 558-585.	2.2	41
40	Biocatalytic oxidation of bisphenol A in a reverse micelle system using horseradish peroxidase. Bioresource Technology, 2008, 99, 4428-4437.	4.8	40
41	Risks associated with the environmental release of pharmaceuticals on the U.S. Food and Drug Administration â€œflush listâ€• Science of the Total Environment, 2017, 609, 1023-1040.	3.9	39
42	Expressions to relate population responses to odor concentration. Atmospheric Environment, 2003, 37, 4955-4964.	1.9	38
43	Designing greener plasticizers: Effects of alkyl chain length and branching on the biodegradation of maleate based plasticizers. Chemosphere, 2015, 134, 106-112.	4.2	38
44	Interaction of metabolites with R. rhodochrous during the biodegradation of di-ester plasticizers. Chemosphere, 2006, 65, 1510-1517.	4.2	31
45	Toxicity of soluble products from the peroxidase-catalysed polymerization of substituted phenolic compounds. Journal of Chemical Technology and Biotechnology, 2000, 75, 98-106.	1.6	29
46	Impact of dissolved wastewater constituents on peroxidase-catalyzed treatment of phenol. Journal of Chemical Technology and Biotechnology, 2002, 77, 419-428.	1.6	29
47	Horseradish peroxidaseâ€catalysed oxidation of aqueous natural and synthetic oestrogens. Journal of Chemical Technology and Biotechnology, 2007, 82, 818-830.	1.6	28
48	Reactor Models for Horseradish Peroxidaseâ€“Catalyzed Aromatic Removal. Journal of Environmental Engineering, ASCE, 1998, 124, 794-802.	0.7	27
49	Environmental applications of enzymes. Interdisciplinary Environmental Review, 2001, 3, 14.	0.1	27
50	Mechanisms of biodegradation of dibenzoate plasticizers. Chemosphere, 2009, 77, 258-263.	4.2	27
51	A simplified model of peroxidase-catalyzed phenol removal from aqueous solution. Journal of Chemical Technology and Biotechnology, 1999, 74, 669-674.	1.6	26
52	Kinetics of peroxidase interactions in the presence of a protective additive. , 1998, 72, 23.		26
53	Estimating the eco-toxicological risk of estrogens in China's rivers using a high-resolution contaminant fate model. Water Research, 2018, 145, 707-720.	5.3	25
54	Kinetics of peroxidase interactions in the presence of a protective additive. Journal of Chemical Technology and Biotechnology, 1999, 72, 23-32.	1.6	23

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55	A comprehensive kinetic model of laccaseâ€catalyzed oxidation of aqueous phenol. Biotechnology Progress, 2009, 25, 763-773.	1.3	23
56	Kinetic model of laccase-catalyzed oxidation of aqueous phenol. Biotechnology and Bioengineering, 2005, 91, 114-123.	1.7	21
57	Metabolites from the biodegradation of 1,6â€hexanediol dibenzoate, a potential green plasticizer, by Rhodococcus rhodochrous. Journal of Mass Spectrometry, 2009, 44, 662-671.	0.7	21
58	Rheology of Green Plasticizer/Poly(vinyl chloride) Blends via Timeâ€“Temperature Superposition. Processes, 2017, 5, 43.	1.3	21
59	Plasticizers and related toxic degradation products in wastewater sludges. Water Science and Technology, 2008, 57, 367-374.	1.2	20
60	Impact of the presence of solids on peroxidase-catalyzed treatment of aqueous phenol. Journal of Chemical Technology and Biotechnology, 2003, 78, 694-702.	1.6	19
61	Fully Renewable, Effective, and Highly Biodegradable Plasticizer: Di-n-heptyl Succinate. ACS Sustainable Chemistry and Engineering, 2020, 8, 12409-12418.	3.2	19
62	Highly Flexible Polylactide Food Packaging Plasticized with Nontoxic, Biosourced Glycerol Plasticizers. ACS Applied Polymer Materials, 2022, 4, 3608-3617.	2.0	19
63	Variable Stoichiometry during the Laccase-Catalyzed Oxidation of Aqueous Phenol. Biotechnology Progress, 2007, 23, 389-397.	1.3	16
64	Characterization of 1,5â€pentanediol dibenzoate as a potential â€œgreenâ€•plasticizer for poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.8	16
65	Designing Green Plasticizers: Linear Alkyl Diol Dibenzoate Plasticizers and a Thermally Reversible Plasticizer. Polymers, 2018, 10, 646.	2.0	15
66	BIODEGRADATION OF PLASTICIZERS BY RHODOTORULA RUBRA. Environmental Toxicology and Chemistry, 2003, 22, 1244.	2.2	15
67	Evaluation of Horseradish Peroxidase for the Treatment of Estrogenic Alkylphenols. Water Quality Research Journal of Canada, 2005, 40, 145-154.	1.2	14
68	A model of the transient kinetics of laccase-catalyzed oxidation of phenol at micromolar concentrations. Biochemical Engineering Journal, 2015, 99, 1-15.	1.8	13
69	Enzyme-Catalyzed Oxidation of 17Î²-Estradiol Using Immobilized Laccase fromTrametes versicolor. Enzyme Research, 2011, 2011, 1-11.	1.8	11
70	Biodegradation kinetics of dibenzoate plasticizers and their metabolites. Biochemical Engineering Journal, 2013, 70, 35-45.	1.8	11
71	Small molecule plasticizers for improved migration resistance: Investigation of branching and leaching behaviour in PVC blends. Materials Today Communications, 2021, 29, 102874.	0.9	11
72	Biodegradation of plasticizers by Rhodotorula rubra. Environmental Toxicology and Chemistry, 2003, 22, 1244-51.	2.2	11

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73	Livestock Odour Dispersion as Affected by Natural Windbreaks. Water, Air, and Soil Pollution, 2007, 182, 263-273.	1.1	10
74	Relative rates and mechanisms of biodegradation of diester plasticizers mediated by Rhodococcus rhodochrous. Canadian Journal of Chemical Engineering, 2009, 87, 499-506.	0.9	10
75	Modelling the transient kinetics of laccase-catalyzed oxidation of four aqueous phenolic substrates at low concentrations. Biochemical Engineering Journal, 2018, 132, 233-243.	1.8	9
76	Poly(Îµâ€caprolactone)â€based additives: Plasticization efficacy and migration resistance. Journal of Vinyl and Additive Technology, 2021, 27, 821-832.	1.8	9
77	Contraceptive Options and Their Associated Estrogenic Environmental Loads: Relationships and Trade-Offs. PLoS ONE, 2014, 9, e92630.	1.1	9
78	Assessing the risk of exogenously consumed pharmaceuticals in land-applied human urine. Water Science and Technology, 2010, 62, 1335-1345.	1.2	8
79	Effect of surfactants on plasticizer biodegradation by Bacillus subtilis ATCC 6633. Biodegradation, 2007, 18, 283-293.	1.5	7
80	Bioâ€based glycerol plasticizers for flexible poly(vinyl chloride) blends. Journal of Applied Polymer Science, 2022, 139, .	1.3	7
81	A pseudo-steady state model of the kinetics of laccase-catalysed oxidation of aqueous phenol. Journal of Chemical Technology and Biotechnology, 2006, 81, 1198-1208.	1.6	6
82	Laccase-Catalyzed Oxidation of Mixed Aqueous Phenolic Substrates at Low Concentrations. Catalysts, 2019, 9, 368.	1.6	6
83	A collective approach towards enhancing undergraduate engineering education. European Journal of Engineering Education, 2005, 30, 377-384.	1.5	4
84	Additives to prevent the formation of surface defects during poly(vinyl chloride) calendering. Polymer Engineering and Science, 2021, 61, 1209-1219.	1.5	3
85	Assessment of the Aquatic Release and Relevance of Selected Endogenous Chemicals: Androgens, Thyroids and Theirin VivoMetabolites. ACS Symposium Series, 2010, , 437-468.	0.5	1
86	Model development for horseradish peroxidase catalyzed removal of aqueous phenol. , 1997, 54, 251.		1
87	Optimal conditions for oxidative degradation of bisphenol A by Horseradish Peroxidase in aqueous phase. , 2011, , .		0