Hans-Peter E Kohler

List of Publications by Year
in descending order

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126 papers	7,653 citations	38720 50 h-index	58549 82 g-index
133 all docs	133 docs citations	133 times ranked	7386 citing authors

#	Article	IF	Citations
1	Enzymatic synthesis and formation kinetics of mono- and di-hydroxylated chlorinated paraffins with the bacterial dehalogenase LinB from Sphingobium indicum. Chemosphere, 2022, 291, 132939.	4.2	7
2	Substrate-Specific Coupling of O₂ Activation to Hydroxylations of Aromatic Compounds by Rieske Non-heme Iron Dioxygenases. ACS Catalysis, 2022, 12, 6444-6456.	5.5	10
3	Elucidating the Role of O₂ Uncoupling in the Oxidative Biodegradation of Organic Contaminants by Rieske Non-heme Iron Dioxygenases. ACS Environmental Au, 2022, 2, 428-440.	3.3	7
4	Transformation of Îµ-HBCD with the Sphingobium Indicum enzymes LinA1, LinA2 and LinATM, a triple mutant of LinA2. Chemosphere, 2021, 267, 129217.	4.2	6
5	Transformation of short-chain chlorinated paraffins by the bacterial haloalkane dehalogenase LinB â€“ Formation of mono- and di-hydroxylated metabolites. Chemosphere, 2021, 262, 128288.	4.2	19
6	Transformation of short-chain chlorinated paraffins and olefins with the bacterial dehalogenase LinB from Sphingobium Indicum â€“ Kinetic models for the homologue-specific conversion of reactive and persistent material. Chemosphere, 2021, 283, 131199.	4.2	11
7	Quantification of Synthetic Polyesters from Biodegradable Mulch Films in Soils. Environmental Science & Technology, 2020, 54, 266-275.	4.6	56
8	Enzyme Kinetics of Organic Contaminant Oxygenations. Chimia, 2020, 74, 108.	0.3	6
9	Dos and Do Nots When Assessing the Biodegradation of Plastics. Environmental Science & Technology, 2019, 53, 9967-9969.	4.6	87
10	Aminobacter sp. MSH1 Mineralizes the Groundwater Micropollutant 2,6-Dichlorobenzamide through a Unique Chlorobenzoate Catabolic Pathway. Environmental Science & Technology, 2019, 53, 10146-10156.	4.6	11
11	Kinetic Isotope Effects of the Enzymatic Transformation of Î³-Hexachlorocyclohexane by the Lindane Dehydrochlorinase Variants LinA1 and LinA2. Environmental Science & Technology, 2019, 53, 2353-2363.	4.6	23
12	Assessing Aerobic Biotransformation of Hexachlorocyclohexane Isomers by Compound-Specific Isotope Analysis. Environmental Science & Technology, 2019, 53, 7419-7431.	4.6	20
13	Modelling carbofuran biotransformation byNovosphingobiumsp. KN65.2 in the presence of coincidental carbon and indigenous microbes. Environmental Science: Water Research and Technology, 2019, 5, 798-807.	1.2	7
14	Biotransformation of short-chain chlorinated paraffins (SCCPs) with LinA2: A HCH and HBCD converting bacterial dehydrohalogenase. Chemosphere, 2019, 226, 744-754.	4.2	31
15	Assessing the environmental transformation of nanoplastic through 13C-labelled polymers. Nature Nanotechnology, 2019, 14, 301-303.	15.6	41
16	Photochemical Transformation of Poly(butylene adipate-co-terephthalate) and Its Effects on Enzymatic Hydrolyzability. Environmental Science & Technology, 2019, 53, 2472-2481.	4.6	45
17	Labeling and Protecting Nâ€Terminal Protein Positions by Î²â€Peptidyl Aminopeptidaseâ€Catalyzed Attachment of Î²â€Aminoâ€Acid Residues â€“ Insulin as a First Example. Helvetica Chimica Acta, 2018, 101,1.0 e1700259.		3
18	Ion Trapping of Amines in Protozoa: A Novel Removal Mechanism for Micropollutants in Activated Sludge. Environmental Science & Technology, 2018, 52, 52-60.	4.6	37

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19	Isolation of the (+)-Pinoresinol-Mineralizing Pseudomonas sp. Strain SG-MS2 and Elucidation of Its Catabolic Pathway. Applied and Environmental Microbiology, 2018, 84, .	1.4	15
20	Biodegradation of synthetic polymers in soils: Tracking carbon into CO ₂ and microbial biomass. Science Advances, 2018, 4, eaas9024.	4.7	284
21	Kinetics and stereochemistry of LinB-catalyzed Î´-HBCD transformation: Comparison of inÂvitro and in silico results. Chemosphere, 2018, 207, 118-129.	4.2	15
22	Catabolism of the groundwater micropollutant 2,6-dichlorobenzamide beyond 2,6-dichlorobenzoate is plasmid encoded in Aminobacter sp. MSH1. Applied Microbiology and Biotechnology, 2018, 102, 7963-7979.	1.7	15
23	High-Throughput Analysis of Enzymatic Hydrolysis of Biodegradable Polyesters by Monitoring Cohydrolysis of a Polyester-Embedded Fluorogenic Probe. Environmental Science & Technology, 2017, 51, 4358-4367.	4.6	35
24	Important amino acid residues of hexachlorocyclohexane dehydrochlorinases (LinA) for enantioselective transformation of hexachlorocyclohexane isomers. Biodegradation, 2017, 28, 171-180.	1.5	9
25	Biotransformation of hexabromocyclododecanes with hexachlorocyclohexane-transforming Sphingobium chinhatense strain IP26. Chemosphere, 2017, 182, 491-500.	4.2	22
26	Enzymatic Hydrolysis of Polyester Thin Films at the Nanoscale: Effects of Polyester Structure and Enzyme Active-Site Accessibility. Environmental Science & Technology, 2017, 51, 7476-7485.	4.6	89
27	FMNH2-dependent monooxygenases initiate catabolism of sulfonamides in Microbacterium sp. strain BR1 subsisting on sulfonamide antibiotics. Scientific Reports, 2017, 7, 15783.	1.6	66
28	Characterization of Substrate, Cosubstrate, and Product Isotope Effects Associated With Enzymatic Oxygenations of Organic Compounds Based on Compound-Specific Isotope Analysis. Methods in Enzymology, 2017, 596, 291-329.	0.4	9
29	Substrate and Enzyme Specificity of the Kinetic Isotope Effects Associated with the Dioxygenation of Nitroaromatic Contaminants. Environmental Science & Technology, 2016, 50, 6708-6716.	4.6	27
30	Laboratory and field scale bioremediation of hexachlorocyclohexane (HCH) contaminated soils by means of bioaugmentation and biostimulation. Biodegradation, 2016, 27, 179-193.	1.5	39
31	Systematic Exploration of Biotransformation Reactions of Amine-Containing Micropollutants in Activated Sludge. Environmental Science & Technology, 2016, 50, 2908-2920.	4.6	111
32	Enzymatic Hydrolysis of Polyester Thin Films: Real-Time Analysis of Film Mass Changes and Dissipation Dynamics. Environmental Science & Technology, 2016, 50, 197-206.	4.6	34
33	Stereochemistry of enzymatic transformations of (+)Î²- and (â^')Î²-HBCD with LinA2 â€“ A HCH-degrading bacterial enzyme of Sphingobium indicum B90A. Chemosphere, 2015, 122, 70-78.	4.2	18
34	Association of Biodiversity with the Rates of Micropollutant Biotransformations among Full-Scale Wastewater Treatment Plant Communities. Applied and Environmental Microbiology, 2015, 81, 666-675.	1.4	98
35	Degradation of sulfonamide antibiotics by Microbacterium sp. strain BR1 â€“ elucidating the downstream pathway. New Biotechnology, 2015, 32, 710-715.	2.4	37
36	A Model Framework to Describe Growth-Linked Biodegradation of Trace-Level Pollutants in the Presence of Coincidental Carbon Substrates and Microbes. Environmental Science & Technology, 2014, 48, 13358-13366.	4.6	19

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37	LinA2, a HCH-converting bacterial enzyme that dehydrohalogenates HBCDs. Chemosphere, 2014, 107, 194-202.	4.2	33
38	Kinetics and Yields of Pesticide Biodegradation at Low Substrate Concentrations and under Conditions Restricting Assimilable Organic Carbon. Applied and Environmental Microbiology, 2014, 80, 1306-1313.	1.4	37
39	Emerging chemicals and the evolution of biodegradation capacities and pathways in bacteria. Current Opinion in Biotechnology, 2014, 27, 8-14.	3.3	82
40	Small ¹³C/¹²C Fractionation Contrasts with Large Enantiomer Fractionation in Aerobic Biodegradation of Phenoxy Acids. Environmental Science & Technology, 2014, 48, 5501-5511.	4.6	31
41	Isotope Effects of Enzymatic Dioxygenation of Nitrobenzene and 2-Nitrotoluene by Nitrobenzene Dioxygenase. Environmental Science & Technology, 2014, 48, 10750-10759.	4.6	24
42	Slow Biotransformation of Carbon Nanotubes by Horseradish Peroxidase. Environmental Science & Technology, 2014, 48, 4826-4834.	4.6	77
43	Genetic and metabolic analysis of the carbofuran catabolic pathway in Novosphingobium sp. KN65.2. Applied Microbiology and Biotechnology, 2014, 98, 8235-8252.	1.7	55
44	Column studies to assess the effects of climate variables on redox processes during riverbank filtration. Water Research, 2014, 61, 263-275.	5.3	32
45	Is biological treatment a viable alternative for micropollutant removal in drinking water treatment processes?. Water Research, 2013, 47, 5955-5976.	5.3	275
46	Stereochemistry of LinB-catalyzed biotransformation of Î´-HBCD to 1R,2R,5S,6R,9R,10S-pentabromocyclododecanol. Chemosphere, 2013, 90, 1911-1919.	4.2	27
47	NOM degradation during river infiltration: Effects of the climate variables temperature and discharge. Water Research, 2013, 47, 6585-6595.	5.3	39
48	Metabolomics of hexachlorocyclohexane (<scp>HCH</scp>) transformation: ratio of <scp>LinA</scp> to <scp>LinB</scp> determines metabolic fate of <scp>HCH</scp> isomers. Environmental Microbiology, 2013, 15, 1040-1049.	1.8	38
49	ipso -Hydroxylation and Subsequent Fragmentation: a Novel Microbial Strategy To Eliminate Sulfonamide Antibiotics. Applied and Environmental Microbiology, 2013, 79, 5550-5558.	1.4	105
50	Enantioselective Dehydrochlorination of Î´-Hexachlorocyclohexane and Î´-Pentachlorocyclohexene by LinA1 and LinA2 from Sphingobium indicum B90A. Applied and Environmental Microbiology, 2013, 79, 6180-6183.	1.4	8
51	Bacterial Î²â€Aminopeptidases: Structural Insights and Applications for Biocatalysis. Chemistry and Biodiversity, 2012, 9, 2388-2409.	1.0	12
52	The activity level of a microbial community function can be predicted from its metatranscriptome. ISME Journal, 2012, 6, 902-904.	4.4	70
53	Formation of Toxic 2-Nonyl-p-Benzoquinones from Î±-Tertiary 4-Nonylphenol Isomers during Microbial Metabolism of Technical Nonylphenol. Environmental Science & Technology, 2012, 46, 5979-5987.	4.6	13
54	Biotransformation of Hexabromocyclododecanes (HBCDs) with LinBâ€"An HCH-Converting Bacterial Enzyme. Environmental Science & Technology, 2012, 46, 6566-6574.	4.6	61

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55	Enzymatic Conversion of Îµ-Hexachlorocyclohexane and a Heptachlorocyclohexane Isomer, Two Neglected Components of Technical Hexachlorocyclohexane. Environmental Science & Technology, 2012, 46, 4051-4058.	4.6	35
56	Crystal Structures of BapA Complexes with Î²â€Lactamâ€Derived Inhibitors Illustrate Substrate Specificity and Enantioselectivity of Î²â€Aminopeptidases. ChemBioChem, 2012, 13, 2137-2145.	1.3	5
57	Autoproteolytic and Catalytic Mechanisms for the Î²-Aminopeptidase BapAâ€"A Member of the Ntn Hydrolase Family. Structure, 2012, 20, 1850-1860.	1.6	14
58	An unexpected gene cluster for downstream degradation of alkylphenols in Sphingomonas sp. strain TTNP3. Applied Microbiology and Biotechnology, 2012, 93, 1315-1324.	1.7	10
59	Purification and characterization of hydroquinone dioxygenase from Sphingomonas sp. strain TTNP3. AMB Express, 2011, 1, 8.	1.4	27
60	Occurrence and sources of selected phenolic endocrine disruptors in Ria de Aveiro, Portugal. Environmental Science and Pollution Research, 2010, 17, 834-843.	2.7	129
61	Anaerobic testosterone degradation in Steroidobacter denitrificans â€“ Identification of transformation products. Environmental Pollution, 2010, 158, 2572-2581.	3.7	51
62	Simple enzymatic procedure for <scp>l</scp>â€carnosine synthesis: wholeâ€cell biocatalysis and efficient biocatalyst recycling. Microbial Biotechnology, 2010, 3, 74-83.	2.0	34
63	Î²â€Aminopeptidaseâ€Catalyzed Biotransformations of Î²²â€Dipeptides: Kinetic Resolution and Enzymatic Coupling. ChemBioChem, 2010, 11, 1129-1136.	1.3	18
64	The Missing Link in Linear Alkylbenzenesulfonate Surfactant Degradation: 4-Sulfoacetophenone as a Transient Intermediate in the Degradation of 3-(4-Sulfophenyl)Butyrate by Comamonas testosteroni KF-1. Applied and Environmental Microbiology, 2010, 76, 196-202.	1.4	14
65	Biochemistry of Microbial Degradation of Hexachlorocyclohexane and Prospects for Bioremediation. Microbiology and Molecular Biology Reviews, 2010, 74, 58-80.	2.9	331
66	Transformation of Î²-Lactam Antibacterial Agents during Aqueous Ozonation: Reaction Pathways and Quantitative Bioassay of Biologically-Active Oxidation Products. Environmental Science & Technology, 2010, 44, 5940-5948.	4.6	92
67	High-Throughput Identification of Microbial Transformation Products of Organic Micropollutants. Environmental Science & Technology, 2010, 44, 6621-6627.	4.6	250
68	Structure-Based Interpretation of Biotransformation Pathways of Amide-Containing Compounds in Sludge-Seeded Bioreactors. Environmental Science & Technology, 2010, 44, 6628-6635.	4.6	93
69	Transformation of Î²-lactam Antibacterial Agents during Aqueous Ozonation: Reaction Pathways and Quantitative Bioassay of Biologically-Active Oxidation Products. Environmental Science & Technology, 2010, 44, 8790-8790.	4.6	6
70	Biotransformation of Selected Iodinated X-ray Contrast Media and Characterization of Microbial Transformation Pathways. Environmental Science & Technology, 2010, 44, 4998-5007.	4.6	109
71	Environmental fate of phenolic endocrine disruptors: field and laboratory studies. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 3941-3963.	1.6	50
72	Kinetic Resolution of Aliphatic Î²â€Amino Acid Amides by Î²â€Aminopeptidases. ChemBioChem, 2009, 10, 1558-1563.	3.3	40

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73	Mass flows of endocrine disruptors in the Glatt River during varying weather conditions. Environmental Pollution, 2009, 157, 714-723.	3.7	128
74	Isomer-Specific Determination of 4-Nonylphenols Using Comprehensive Two-Dimensional Gas Chromatography/Time-of-Flight Mass Spectrometry. Environmental Science & Technology, 2009, 43, 9306-9313.	4.6	64
75	Oxidation of Antibacterial Compounds by Ozone and Hydroxyl Radical: Elimination of Biological Activity during Aqueous Ozonation Processes. Environmental Science & Technology, 2009, 43, 2498-2504.	4.6	233
76	Isomer-Specific Degradation and Endocrine Disrupting Activity of Nonylphenols. Environmental Science & Technology, 2008, 42, 6399-6408.	4.6	107
77	Occurrence and Mass Flows of Fluorochemicals in the Glatt Valley Watershed, Switzerland. Environmental Science & Technology, 2008, 42, 6369-6377.	4.6	159
78	Temporal Trends, Congener Patterns, and Sources of Octa-, Nona-, and Decabromodiphenyl Ethers (PBDE) and Hexabromocyclododecanes (HBCD) in Swiss Lake Sediments. Environmental Science & Technology, 2008, 42, 6378-6384.	4.6	100
79	New Metabolites in the Degradation of Î±- and Î³-Hexachlorocyclohexane (HCH): Pentachlorocyclohexenes Are Hydroxylated to Cyclohexenols and Cyclohexenediols by the Haloalkane Dehalogenase LinB from Sphingobium indicum B90A. Journal of Agricultural and Food Chemistry, 2008, 56, 6594-6603.	2.4	41
80	ipso-Substitution â€“ A Novel Pathway for Microbial Metabolism of Endocrine-Disrupting 4-Nonylphenols, 4-Alkoxyphenols, and Bisphenol A. Chimia, 2008, 62, 358.	0.3	22
81	Elucidation of the ipso -Substitution Mechanism for Side-Chain Cleavage of Î±-Quaternary 4-Nonylphenols and 4- t -Butoxyphenol in Sphingobium xenophagum Bayram. Applied and Environmental Microbiology, 2007, 73, 3320-3326.	1.4	40
82	Description of Sphingosinicella xenopeptidilytica sp. nov., a Î²-peptide-degrading species, and emended descriptions of the genus Sphingosinicella and the species Sphingosinicella microcystinivorans. International Journal of Systematic and Evolutionary Microbiology, 2007, 57, 107-113.	0.8	41
83	The historical record of PCB and PCDD/F deposition at Greifensee, a lake of the Swiss plateau, between 1848 and 1999. Chemosphere, 2007, 67, 1754-1761.	4.2	61
84	Hydroxylated Metabolites of Î²- and Î´-Hexachlorocyclohexane:Â Bacterial Formation, Stereochemical Configuration, and Occurrence in Groundwater at a Former Production Site. Environmental Science & Technology, 2007, 41, 4292-4298.	4.6	51
85	Enzymeâ€Catalyzed Formation of Î²â€Peptides: Î²â€Peptidyl Aminopeptidases BapA and DmpA Acting as Î²â€Peptideâ€Synthesizing Enzymes. Chemistry and Biodiversity, 2007, 4, 2016-2030.	1.0	39
86	ipsoâ€Substitution: A General Biochemical and Biodegradation Mechanism to Cleave Î±â€Quaternary Alkylphenols and Bisphenol A. Chemistry and Biodiversity, 2007, 4, 2123-2137.	1.0	25
87	Benzotriazole and Tolyltriazole as Aquatic Contaminants. 1. Input and Occurrence in Rivers and Lakes. Environmental Science & Technology, 2006, 40, 7186-7192.	4.6	250
88	Anaerobic degradation of brominated flame retardants in sewage sludge. Chemosphere, 2006, 64, 311-317.	4.2	189
89	Bacterial ?-peptidyl aminopeptidases with unique substrate specificities for ?-oligopeptides and mixed ?,?-oligopeptides. FEBS Journal, 2006, 273, 5261-5272.	2.2	43
90	Selective hydrolysis of the nitrile group of cis-dihydrodiols from aromatic nitriles. Journal of Molecular Catalysis B: Enzymatic, 2006, 38, 76-83.	1.8	17

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91	Enzymatic Degradation ofÎ²- and MixedÎ±,Î²-Oligopeptides. Chemistry and Biodiversity, 2006, 3, 1325-1348.	1.0	55
92	Purification and Characterization of Two Enantioselective Î±-Ketoglutarate-Dependent Dioxygenases, RdpA and SdpA, from Sphingomonas herbicidovorans MH. Applied and Environmental Microbiology, 2006, 72, 4853-4861.	1.4	52
93	Haloalkane Dehalogenase LinB Is Responsible for Î²- and Î´-Hexachlorocyclohexane Transformation in Sphingobium indicum B90A. Applied and Environmental Microbiology, 2006, 72, 5720-5727.	1.4	90
94	Anaerobic Degradation of Decabromodiphenyl Ether. Environmental Science & Technology, 2005, 39, 1078-1083.	4.6	317
95	Bacterial Cell Penetration by Î²3-Oligohomoarginines: Indications for Passive Transfer through the Lipid Bilayer. ChemBioChem, 2005, 6, 982-985.	1.3	40
96	Differential Degradation of Nonylphenol Isomers by Sphingomonas xenophaga Bayram. Applied and Environmental Microbiology, 2005, 71, 1123-1129.	1.4	106
97	A Novel Î²-Peptidyl Aminopeptidase (BapA) from Strain 3-2W4 Cleaves Peptide Bonds of Synthetic Î²-Tri- and Î²-Dipeptides. Journal of Bacteriology, 2005, 187, 5910-5917.	1.0	37
98	A Novel Metabolic Pathway for Degradation of 4-Nonylphenol Environmental Contaminants by Sphingomonas xenophaga Bayram. Journal of Biological Chemistry, 2005, 280, 15526-15533.	1.6	87
99	Enantioselective Transformation of Î±-Hexachlorocyclohexane by the Dehydrochlorinases LinA1 and LinA2 from the Soil Bacterium Sphingomonas paucimobilis B90A. Applied and Environmental Microbiology, 2005, 71, 8514-8518.	1.4	93
100	Genetic Analysis of Phenoxyalkanoic Acid Degradation in Sphingomonas herbicidovorans MH. Applied and Environmental Microbiology, 2004, 70, 6066-6075.	1.4	54
101	Synthesis of 3-tert-butylcatechol by an engineered monooxygenase. Biotechnology and Bioengineering, 2003, 81, 518-524.	1.7	31
102	Crystallization and preliminary X-ray analysis of native and selenomethionine 2-hydroxybiphenyl 3-monooxygenase. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 741-743.	2.5	1
103	Occurrence and Fate of Antibiotics as Trace Contaminants in Wastewaters, Sewage Sludges, and Surface Waters. Chimia, 2003, 57, 485-491.	0.3	259
104	Changing the Substrate Reactivity of 2-Hydroxybiphenyl 3-Monooxygenase from Pseudomonas azelaica HBP1 by Directed Evolution. Journal of Biological Chemistry, 2002, 277, 5575-5582.	1.6	66
105	Hydroxylation of Indole by Laboratory-evolved 2-Hydroxybiphenyl 3-Monooxygenase. Journal of Biological Chemistry, 2002, 277, 34161-34167.	1.6	59
106	Leaching and Primary Biodegradation of Sulfonated Naphthalenes and Their Formaldehyde Condensates from Concrete Superplasticizers in Groundwater Affected by Tunnel Construction. Environmental Science & Technology, 2002, 36, 3284-3289.	4.6	28
107	On the Biodegradation of Î²-Peptides Part of the PhD thesis of J.V.S. Dissertation no. 14298, ETH ZÃ¼rich, 2001.. ChemBioChem, 2002, 3, 424.	1.3	71
108	Transcriptional Organization and Dynamic Expression of the hbpCAD Genes, Which Encode the First Three Enzymes for 2-Hydroxybiphenyl Degradation in Pseudomonas azelaica HBP1. Journal of Bacteriology, 2001, 183, 270-279.	1.0	37

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109	Biotransformation of Various Substituted Aromatic Compounds to Chiral Dihydrodihydroxy Derivatives. Applied and Environmental Microbiology, 2001, 67, 3333-3339.	1.4	33
110	HbpR, a New Member of the XylR/DmpR Subclass within the NtrC Family of Bacterial Transcriptional Activators, Regulates Expression of 2-Hydroxybiphenyl Metabolism in Pseudomonas azelaica HBP1. Journal of Bacteriology, 2000, 182, 405-417.	1.0	69
111	Effect of Chirality on the Microbial Degradation and the Environmental Fate of Chiral Pollutants. Advances in Microbial Ecology, 2000, , 201-231.	0.1	8
112	Catalytic Mechanism of 2-Hydroxybiphenyl 3-Monooxygenase, a Flavoprotein from Pseudomonas azelaica HBP1. Journal of Biological Chemistry, 1999, 274, 33355-33365.	1.6	43
113	Aerobic biodegradation of chiral phenoxyalkanoic acid derivatives during incubations with activated sludge. FEMS Microbiology Ecology, 1999, 29, 197-204.	1.3	14
114	Fate of the herbicides mecoprop, dichlorprop, and 2,4-D in aerobic and anaerobic sewage sludge as determined by laboratory batch studies and enantiomer-specific analysis. Biodegradation, 1999, 10, 271-278.	1.5	56
115	An integrated process for the production of toxic catechols from toxic phenols based on a designer biocatalyst. , 1999, 62, 641-648.		75
116	cis -Chlorobenzene Dihydrodiol Dehydrogenase (TcbB) from Pseudomonas sp. Strain P51, Expressed in Escherichia coli DH5Î±(pTCB149), Catalyzes Enantioselective Dehydrogenase Reactions. Applied and Environmental Microbiology, 1999, 65, 5242-5246.	1.4	20
117	Preparative scale production of 3-substituted catechols using a novel monooxygenase from Pseudomonas azelaica HBP 1. Journal of Molecular Catalysis B: Enzymatic, 1998, 5, 87-93.	1.8	62
118	E. coli JM109 pHBP461, a recombinant biocatalyst for the regioselective monohydroxylation of ortho-substituted phenols to their corresponding 3-substituted catechols. Journal of Molecular Catalysis B: Enzymatic, 1998, 5, 311-316.	1.8	13
119	Changes in the Enantiomeric Ratio of (R)- to (S)-Mecoprop Indicate in Situ Biodegradation of This Chiral Herbicide in a Polluted Aquifer. Environmental Science & Technology, 1998, 32, 2070-2076.	4.6	84
120	Enantioselective Uptake and Degradation of the Chiral Herbicide Dichlorprop [(RS) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td Bacteriology, 1998, 180, 3368-3374.	1.0	67
121	Purification and Characterization of 2-Hydroxybiphenyl 3-Monooxygenase, a Novel NADH-dependent, FAD-containing Aromatic Hydroxylase from Pseudomonas azelaica HBP1. Journal of Biological Chemistry, 1997, 272, 24257-24265.	1.6	73
122	The Broad Substrate Chlorobenzene Dioxygenase and cis-Chlorobenzene Dihydrodiol Dehydrogenase of Pseudomonas sp. Strain P51 Are Linked Evolutionarily to the Enzymes for Benzene and Toluene Degradation. Journal of Biological Chemistry, 1996, 271, 4009-4016.	1.6	122
123	Degradation of 2-sec-butylphenol: 3-sec-butylcatechol,2-hydroxy-6-oxo-7-methylnona-2,4-dienoic acid, and 2-methylbutyric acid as intermediates. Biodegradation, 1993, 4, 81-89.	1.5	12
124	5'-Methylbenzimidazolyl-cobamides are the corrinoids from some sulfate-reducing and sulfur-metabolizing bacteria. FEBS Journal, 1988, 176, 461-469.	0.2	49
125	Isolation of cobamides from Methanothrix soehngenii: 5-methylbenzimidazole as the ?-ligand of the predominant cobamide. Archives of Microbiology, 1988, 150, 219-223.	1.0	13
126	Carbon monoxide dehydrogenase and acetate thiokinase inMethanothrix soehngenii. FEMS Microbiology Letters, 1984, 21, 287-292.	0.7	49