

# Hans-Peter E Kohler

## List of Publications by Year in descending order

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126  
papers

7,653  
citations

38742

50  
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58581

82  
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133  
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133  
docs citations

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times ranked

7386  
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#	ARTICLE	IF	CITATIONS
1	Enzymatic synthesis and formation kinetics of mono- and di-hydroxylated chlorinated paraffins with the bacterial dehalogenase LinB from <i>Sphingobium indicum</i> . <i>Chemosphere</i> , 2022, 291, 132939.	8.2	7
2	Substrate-Specific Coupling of O <sub>2</sub> Activation to Hydroxylations of Aromatic Compounds by Rieske Non-heme Iron Dioxygenases. <i>ACS Catalysis</i> , 2022, 12, 6444-6456.	11.2	10
3	Elucidating the Role of O <sub>2</sub> Uncoupling in the Oxidative Biodegradation of Organic Contaminants by Rieske Non-heme Iron Dioxygenases. <i>ACS Environmental Au</i> , 2022, 2, 428-440.	7.0	7
4	Transformation of $\mu$ -HBCD with the <i>Sphingobium indicum</i> enzymes LinA1, LinA2 and LinATM, a triple mutant of LinA2. <i>Chemosphere</i> , 2021, 267, 129217.	8.2	6
5	Transformation of short-chain chlorinated paraffins by the bacterial haloalkane dehalogenase LinB – Formation of mono- and di-hydroxylated metabolites. <i>Chemosphere</i> , 2021, 262, 128288.	8.2	19
6	Transformation of short-chain chlorinated paraffins and olefins with the bacterial dehalogenase LinB from <i>Sphingobium indicum</i> – Kinetic models for the homologue-specific conversion of reactive and persistent material. <i>Chemosphere</i> , 2021, 283, 131199.	8.2	11
7	Quantification of Synthetic Polyesters from Biodegradable Mulch Films in Soils. <i>Environmental Science &amp; Technology</i> , 2020, 54, 266-275.	10.0	56
8	Enzyme Kinetics of Organic Contaminant Oxygenations. <i>Chimia</i> , 2020, 74, 108.	0.6	6
9	Dos and Do Nots When Assessing the Biodegradation of Plastics. <i>Environmental Science &amp; Technology</i> , 2019, 53, 9967-9969.	10.0	87
10	<i>Aminobacter</i> sp. MSH1 Mineralizes the Groundwater Micropollutant 2,6-Dichlorobenzamide through a Unique Chlorobenzoate Catabolic Pathway. <i>Environmental Science &amp; Technology</i> , 2019, 53, 10146-10156.	10.0	11
11	Kinetic Isotope Effects of the Enzymatic Transformation of $\gamma$ -Hexachlorocyclohexane by the Lindane Dehydrochlorinase Variants LinA1 and LinA2. <i>Environmental Science &amp; Technology</i> , 2019, 53, 2353-2363.	10.0	23
12	Assessing Aerobic Biotransformation of Hexachlorocyclohexane Isomers by Compound-Specific Isotope Analysis. <i>Environmental Science &amp; Technology</i> , 2019, 53, 7419-7431.	10.0	20
13	Modelling carbofuran biotransformation by <i>Novosphingobium</i> sp. KN65.2 in the presence of coincidental carbon and indigenous microbes. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 798-807.	2.4	7
14	Biotransformation of short-chain chlorinated paraffins (SCCPs) with LinA2: A HCH and HBCD converting bacterial dehydrohalogenase. <i>Chemosphere</i> , 2019, 226, 744-754.	8.2	31
15	Assessing the environmental transformation of nanoplastic through <sup>13</sup> C-labelled polymers. <i>Nature Nanotechnology</i> , 2019, 14, 301-303.	31.5	41
16	Photochemical Transformation of Poly(butylene adipate-co-terephthalate) and Its Effects on Enzymatic Hydrolyzability. <i>Environmental Science &amp; Technology</i> , 2019, 53, 2472-2481.	10.0	45
17	Labeling and Protecting N-Terminal Protein Positions by $\gamma$ -Peptidyl Aminopeptidase-Catalyzed Attachment of $\gamma$ -Amino Acid Residues – Insulin as a First Example. <i>Helvetica Chimica Acta</i> , 2018, 101, 1.6 e1700259.		3
18	Ion Trapping of Amines in Protozoa: A Novel Removal Mechanism for Micropollutants in Activated Sludge. <i>Environmental Science &amp; Technology</i> , 2018, 52, 52-60.	10.0	37

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19	Isolation of the (+)-Pinoresinol-Mineralizing <i>Pseudomonas</i> sp. Strain SG-MS2 and Elucidation of Its Catabolic Pathway. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	15
20	Biodegradation of synthetic polymers in soils: Tracking carbon into CO <sub>2</sub> and microbial biomass. <i>Science Advances</i> , 2018, 4, eaas9024.	10.3	284
21	Kinetics and stereochemistry of LinB-catalyzed $\beta$ -HBCD transformation: Comparison of in vitro and in silico results. <i>Chemosphere</i> , 2018, 207, 118-129.	8.2	15
22	Catabolism of the groundwater micropollutant 2,6-dichlorobenzamide beyond 2,6-dichlorobenzoate is plasmid encoded in <i>Aminobacter</i> sp. MSH1. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 7963-7979.	3.6	15
23	High-Throughput Analysis of Enzymatic Hydrolysis of Biodegradable Polyesters by Monitoring Cohydrolysis of a Polyester-Embedded Fluorogenic Probe. <i>Environmental Science &amp; Technology</i> , 2017, 51, 4358-4367.	10.0	35
24	Important amino acid residues of hexachlorocyclohexane dehydrochlorinases (LinA) for enantioselective transformation of hexachlorocyclohexane isomers. <i>Biodegradation</i> , 2017, 28, 171-180.	3.0	9
25	Biotransformation of hexabromocyclododecanes with hexachlorocyclohexane-transforming <i>Sphingobium chinhatense</i> strain IP26. <i>Chemosphere</i> , 2017, 182, 491-500.	8.2	22
26	Enzymatic Hydrolysis of Polyester Thin Films at the Nanoscale: Effects of Polyester Structure and Enzyme Active-Site Accessibility. <i>Environmental Science &amp; Technology</i> , 2017, 51, 7476-7485.	10.0	89
27	FMNH <sub>2</sub> -dependent monooxygenases initiate catabolism of sulfonamides in <i>Microbacterium</i> sp. strain BR1 subsisting on sulfonamide antibiotics. <i>Scientific Reports</i> , 2017, 7, 15783.	3.3	66
28	Characterization of Substrate, Cosubstrate, and Product Isotope Effects Associated With Enzymatic Oxygenations of Organic Compounds Based on Compound-Specific Isotope Analysis. <i>Methods in Enzymology</i> , 2017, 596, 291-329.	1.0	9
29	Substrate and Enzyme Specificity of the Kinetic Isotope Effects Associated with the Dioxygenation of Nitroaromatic Contaminants. <i>Environmental Science &amp; Technology</i> , 2016, 50, 6708-6716.	10.0	27
30	Laboratory and field scale bioremediation of hexachlorocyclohexane (HCH) contaminated soils by means of bioaugmentation and biostimulation. <i>Biodegradation</i> , 2016, 27, 179-193.	3.0	39
31	Systematic Exploration of Biotransformation Reactions of Amine-Containing Micropollutants in Activated Sludge. <i>Environmental Science &amp; Technology</i> , 2016, 50, 2908-2920.	10.0	111
32	Enzymatic Hydrolysis of Polyester Thin Films: Real-Time Analysis of Film Mass Changes and Dissipation Dynamics. <i>Environmental Science &amp; Technology</i> , 2016, 50, 197-206.	10.0	34
33	Stereochemistry of enzymatic transformations of (+)- $\beta$ - and ( $\alpha$ )- $\beta$ -HBCD with LinA2 – A HCH-degrading bacterial enzyme of <i>Sphingobium indicum</i> B90A. <i>Chemosphere</i> , 2015, 122, 70-78.	8.2	18
34	Association of Biodiversity with the Rates of Micropollutant Biotransformations among Full-Scale Wastewater Treatment Plant Communities. <i>Applied and Environmental Microbiology</i> , 2015, 81, 666-675.	3.1	98
35	Degradation of sulfonamide antibiotics by <i>Microbacterium</i> sp. strain BR1 – elucidating the downstream pathway. <i>New Biotechnology</i> , 2015, 32, 710-715.	4.4	37
36	A Model Framework to Describe Growth-Linked Biodegradation of Trace-Level Pollutants in the Presence of Coincidental Carbon Substrates and Microbes. <i>Environmental Science &amp; Technology</i> , 2014, 48, 13358-13366.	10.0	19

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37	LinA2, a HCH-converting bacterial enzyme that dehydrohalogenates HBCDs. <i>Chemosphere</i> , 2014, 107, 194-202.	8.2	33
38	Kinetics and Yields of Pesticide Biodegradation at Low Substrate Concentrations and under Conditions Restricting Assimilable Organic Carbon. <i>Applied and Environmental Microbiology</i> , 2014, 80, 1306-1313.	3.1	37
39	Emerging chemicals and the evolution of biodegradation capacities and pathways in bacteria. <i>Current Opinion in Biotechnology</i> , 2014, 27, 8-14.	6.6	82
40	Small <sup>13</sup> C/ <sup>12</sup> C Fractionation Contrasts with Large Enantiomer Fractionation in Aerobic Biodegradation of Phenoxy Acids. <i>Environmental Science &amp; Technology</i> , 2014, 48, 5501-5511.	10.0	31
41	Isotope Effects of Enzymatic Dioxygenation of Nitrobenzene and 2-Nitrotoluene by Nitrobenzene Dioxygenase. <i>Environmental Science &amp; Technology</i> , 2014, 48, 10750-10759.	10.0	24
42	Slow Biotransformation of Carbon Nanotubes by Horseradish Peroxidase. <i>Environmental Science &amp; Technology</i> , 2014, 48, 4826-4834.	10.0	77
43	Genetic and metabolic analysis of the carbofuran catabolic pathway in <i>Novosphingobium</i> sp. KN65.2. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 8235-8252.	3.6	55
44	Column studies to assess the effects of climate variables on redox processes during riverbank filtration. <i>Water Research</i> , 2014, 61, 263-275.	11.3	32
45	Is biological treatment a viable alternative for micropollutant removal in drinking water treatment processes?. <i>Water Research</i> , 2013, 47, 5955-5976.	11.3	275
46	Stereochemistry of LinB-catalyzed biotransformation of $\hat{\gamma}$ -HBCD to 1R,2R,5S,6R,9R,10S-pentabromocyclododecanol. <i>Chemosphere</i> , 2013, 90, 1911-1919.	8.2	27
47	NOM degradation during river infiltration: Effects of the climate variables temperature and discharge. <i>Water Research</i> , 2013, 47, 6585-6595.	11.3	39
48	Metabolomics of hexachlorocyclohexane ( $\langle \text{HCH} \rangle$ ) transformation: ratio of $\langle \text{LinA} \rangle$ to $\langle \text{LinB} \rangle$ determines metabolic fate of $\langle \text{HCH} \rangle$ isomers. <i>Environmental Microbiology</i> , 2013, 15, 1040-1049.	3.8	38
49	<i>ipso</i> -Hydroxylation and Subsequent Fragmentation: a Novel Microbial Strategy To Eliminate Sulfonamide Antibiotics. <i>Applied and Environmental Microbiology</i> , 2013, 79, 5550-5558.	3.1	105
50	Enantioselective Dehydrochlorination of $\hat{\gamma}$ -Hexachlorocyclohexane and $\hat{\gamma}$ -Pentachlorocyclohexene by LinA1 and LinA2 from <i>Sphingobium indicum</i> B90A. <i>Applied and Environmental Microbiology</i> , 2013, 79, 6180-6183.	3.1	8
51	Bacterial $\hat{\gamma}$ -Amino peptidases: Structural Insights and Applications for Biocatalysis. <i>Chemistry and Biodiversity</i> , 2012, 9, 2388-2409.	2.1	12
52	The activity level of a microbial community function can be predicted from its metatranscriptome. <i>ISME Journal</i> , 2012, 6, 902-904.	9.8	70
53	Formation of Toxic 2-Nonyl- <i>p</i> -Benzoquinones from $\hat{\pm}$ -Tertiary 4-Nonylphenol Isomers during Microbial Metabolism of Technical Nonylphenol. <i>Environmental Science &amp; Technology</i> , 2012, 46, 5979-5987.	10.0	13
54	Biotransformation of Hexabromocyclododecanes (HBCDs) with LinB – An HCH-Converting Bacterial Enzyme. <i>Environmental Science &amp; Technology</i> , 2012, 46, 6566-6574.	10.0	61

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55	Enzymatic Conversion of $\beta$ -Hexachlorocyclohexane and a Heptachlorocyclohexane Isomer, Two Neglected Components of Technical Hexachlorocyclohexane. <i>Environmental Science &amp; Technology</i> , 2012, 46, 4051-4058.	10.0	35
56	Crystal Structures of BapA Complexes with $\beta$ -Lactam-Derived Inhibitors Illustrate Substrate Specificity and Enantioselectivity of $\beta$ -Aminoamidases. <i>ChemBioChem</i> , 2012, 13, 2137-2145.	2.6	5
57	Autoproteolytic and Catalytic Mechanisms for the $\beta$ -Aminoamidase BapA—A Member of the Ntn Hydrolase Family. <i>Structure</i> , 2012, 20, 1850-1860.	3.3	14
58	An unexpected gene cluster for downstream degradation of alkylphenols in <i>Sphingomonas</i> sp. strain TTNP3. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 1315-1324.	3.6	10
59	Purification and characterization of hydroquinone dioxygenase from <i>Sphingomonas</i> sp. strain TTNP3. <i>AMB Express</i> , 2011, 1, 8.	3.0	27
60	Occurrence and sources of selected phenolic endocrine disruptors in Ria de Aveiro, Portugal. <i>Environmental Science and Pollution Research</i> , 2010, 17, 834-843.	5.3	129
61	Anaerobic testosterone degradation in <i>Steroidobacter denitrificans</i> — Identification of transformation products. <i>Environmental Pollution</i> , 2010, 158, 2572-2581.	7.5	51
62	Simple enzymatic procedure for L-carnosine synthesis: whole-cell biocatalysis and efficient biocatalyst recycling. <i>Microbial Biotechnology</i> , 2010, 3, 74-83.	4.2	34
63	$\beta$ -Aminoamidase-Catalyzed Biotransformations of $\beta$ -Dipeptides: Kinetic Resolution and Enzymatic Coupling. <i>ChemBioChem</i> , 2010, 11, 1129-1136.	2.6	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 <i>Comamonas testosteroni</i> KF-1. <i>Applied and Environmental Microbiology</i> , 2010, 76, 196-202.	3.1	14
65	Biochemistry of Microbial Degradation of Hexachlorocyclohexane and Prospects for Bioremediation. <i>Microbiology and Molecular Biology Reviews</i> , 2010, 74, 58-80.	6.6	331
66	Transformation of $\beta$ -Lactam Antibacterial Agents during Aqueous Ozonation: Reaction Pathways and Quantitative Bioassay of Biologically-Active Oxidation Products. <i>Environmental Science &amp; Technology</i> , 2010, 44, 5940-5948.	10.0	92
67	High-Throughput Identification of Microbial Transformation Products of Organic Micropollutants. <i>Environmental Science &amp; Technology</i> , 2010, 44, 6621-6627.	10.0	250
68	Structure-Based Interpretation of Biotransformation Pathways of Amide-Containing Compounds in Sludge-Seeded Bioreactors. <i>Environmental Science &amp; Technology</i> , 2010, 44, 6628-6635.	10.0	93
69	Transformation of $\beta$ -lactam Antibacterial Agents during Aqueous Ozonation: Reaction Pathways and Quantitative Bioassay of Biologically-Active Oxidation Products. <i>Environmental Science &amp; Technology</i> , 2010, 44, 8790-8790.	10.0	6
70	Biotransformation of Selected Iodinated X-ray Contrast Media and Characterization of Microbial Transformation Pathways. <i>Environmental Science &amp; Technology</i> , 2010, 44, 4998-5007.	10.0	109
71	Environmental fate of phenolic endocrine disruptors: field and laboratory studies. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 3941-3963.	3.4	50
72	Kinetic Resolution of Aliphatic $\beta$ -Amino Acid Amides by $\beta$ -Aminoamidases. <i>ChemBioChem</i> , 2009, 10, 1558-1566.	2.6	40

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73	Mass flows of endocrine disruptors in the Glatt River during varying weather conditions. <i>Environmental Pollution</i> , 2009, 157, 714-723.	7.5	128
74	Isomer-Specific Determination of 4-Nonylphenols Using Comprehensive Two-Dimensional Gas Chromatography/Time-of-Flight Mass Spectrometry. <i>Environmental Science &amp; Technology</i> , 2009, 43, 9306-9313.	10.0	64
75	Oxidation of Antibacterial Compounds by Ozone and Hydroxyl Radical: Elimination of Biological Activity during Aqueous Ozonation Processes. <i>Environmental Science &amp; Technology</i> , 2009, 43, 2498-2504.	10.0	233
76	Isomer-Specific Degradation and Endocrine Disrupting Activity of Nonylphenols. <i>Environmental Science &amp; Technology</i> , 2008, 42, 6399-6408.	10.0	107
77	Occurrence and Mass Flows of Fluorochemicals in the Glatt Valley Watershed, Switzerland. <i>Environmental Science &amp; Technology</i> , 2008, 42, 6369-6377.	10.0	159
78	Temporal Trends, Congener Patterns, and Sources of Octa-, Nona-, and Decabromodiphenyl Ethers (PBDE) and Hexabromocyclododecanes (HBCD) in Swiss Lake Sediments. <i>Environmental Science &amp; Technology</i> , 2008, 42, 6378-6384.	10.0	100
79	New Metabolites in the Degradation of $\hat{1}\pm$ - and $\hat{1}^3$ -Hexachlorocyclohexane (HCH): Pentachlorocyclohexenes Are Hydroxylated to Cyclohexenols and Cyclohexenediols by the Haloalkane Dehalogenase LinB from <i>Sphingobium indicum</i> B90A. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 6594-6603.	5.2	41
80	ipso-Substitution â€“ A Novel Pathway for Microbial Metabolism of Endocrine-Disrupting 4-Nonylphenols, 4-Alkoxyphenols, and Bisphenol A. <i>Chimia</i> , 2008, 62, 358.	0.6	22
81	Elucidation of the ipso-Substitution Mechanism for Side-Chain Cleavage of $\hat{1}\pm$ -Quaternary 4-Nonylphenols and 4- t -Butoxyphenol in <i>Sphingobium xenophagum</i> Bayram. <i>Applied and Environmental Microbiology</i> , 2007, 73, 3320-3326.	3.1	40
82	Description of <i>Sphingosinicella xenopeptidilytica</i> sp. nov., a $\hat{1}^2$ -peptide-degrading species, and emended descriptions of the genus <i>Sphingosinicella</i> and the species <i>Sphingosinicella microcystinivorans</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2007, 57, 107-113.	1.7	41
83	The historical record of PCB and PCDD/F deposition at Greifensee, a lake of the Swiss plateau, between 1848 and 1999. <i>Chemosphere</i> , 2007, 67, 1754-1761.	8.2	61
84	Hydroxylated Metabolites of $\hat{1}^2$ - and $\hat{1}^3$ -Hexachlorocyclohexane: Bacterial Formation, Stereochemical Configuration, and Occurrence in Groundwater at a Former Production Site. <i>Environmental Science &amp; Technology</i> , 2007, 41, 4292-4298.	10.0	51
85	Enzymeâ€Catalyzed Formation of $\hat{1}^2$ -Peptides: $\hat{1}^2$ -Peptidyl Aminopeptidases BapA and DmpA Acting as $\hat{1}^2$ -Peptideâ€Synthesizing Enzymes. <i>Chemistry and Biodiversity</i> , 2007, 4, 2016-2030.	2.1	39
86	$\hat{1}^2$ -Substitution: A General Biochemical and Biodegradation Mechanism to Cleave $\hat{1}^2$ -Quaternary Alkylphenols and Bisphenol A. <i>Chemistry and Biodiversity</i> , 2007, 4, 2123-2137.	2.1	25
87	Benzotriazole and Tolyltriazole as Aquatic Contaminants. 1. Input and Occurrence in Rivers and Lakes. <i>Environmental Science &amp; Technology</i> , 2006, 40, 7186-7192.	10.0	250
88	Anaerobic degradation of brominated flame retardants in sewage sludge. <i>Chemosphere</i> , 2006, 64, 311-317.	8.2	189
89	Bacterial $\hat{1}^2$ -peptidyl aminopeptidases with unique substrate specificities for $\hat{1}^2$ -oligopeptides and mixed $\hat{1}^2$ -oligopeptides. <i>FEBS Journal</i> , 2006, 273, 5261-5272.	4.7	43
90	Selective hydrolysis of the nitrile group of cis-dihydrodiols from aromatic nitriles. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2006, 38, 76-83.	1.8	17

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91	Enzymatic Degradation of $\beta$ - and Mixed $\alpha$ , $\beta$ -Oligopeptides. <i>Chemistry and Biodiversity</i> , 2006, 3, 1325-1348.	2.1	55
92	Purification and Characterization of Two Enantioselective $\alpha$ -Ketoglutarate-Dependent Dioxygenases, RdpA and SdpA, from <i>Sphingomonas herbicidovorans</i> MH. <i>Applied and Environmental Microbiology</i> , 2006, 72, 4853-4861.	3.1	52
93	Haloalkane Dehalogenase LinB Is Responsible for $\beta$ - and $\alpha$ -Hexachlorocyclohexane Transformation in <i>Sphingobium indicum</i> B90A. <i>Applied and Environmental Microbiology</i> , 2006, 72, 5720-5727.	3.1	90
94	Anaerobic Degradation of Decabromodiphenyl Ether. <i>Environmental Science &amp; Technology</i> , 2005, 39, 1078-1083.	10.0	317
95	Bacterial Cell Penetration by $\beta$ -3-Oligohomoarginines: Indications for Passive Transfer through the Lipid Bilayer. <i>ChemBioChem</i> , 2005, 6, 982-985.	2.6	40
96	Differential Degradation of Nonylphenol Isomers by <i>Sphingomonas xenophaga</i> Bayram. <i>Applied and Environmental Microbiology</i> , 2005, 71, 1123-1129.	3.1	106
97	A Novel $\beta$ -Peptidyl Aminopeptidase (BapA) from Strain 3-2W4 Cleaves Peptide Bonds of Synthetic $\beta$ -Tri- and $\beta$ -Di-peptides. <i>Journal of Bacteriology</i> , 2005, 187, 5910-5917.	2.2	37
98	A Novel Metabolic Pathway for Degradation of 4-Nonylphenol Environmental Contaminants by <i>Sphingomonas xenophaga</i> Bayram. <i>Journal of Biological Chemistry</i> , 2005, 280, 15526-15533.	3.4	87
99	Enantioselective Transformation of $\alpha$ -Hexachlorocyclohexane by the Dehydrochlorinases LinA1 and LinA2 from the Soil Bacterium <i>Sphingomonas paucimobilis</i> B90A. <i>Applied and Environmental Microbiology</i> , 2005, 71, 8514-8518.	3.1	93
100	Genetic Analysis of Phenoxyalkanoic Acid Degradation in <i>Sphingomonas herbicidovorans</i> MH. <i>Applied and Environmental Microbiology</i> , 2004, 70, 6066-6075.	3.1	54
101	Synthesis of 3-tert-butylcatechol by an engineered monooxygenase. <i>Biotechnology and Bioengineering</i> , 2003, 81, 518-524.	3.3	31
102	Crystallization and preliminary X-ray analysis of native and selenomethionine 2-hydroxybiphenyl 3-monooxygenase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 741-743.	2.5	1
103	Occurrence and Fate of Antibiotics as Trace Contaminants in Wastewaters, Sewage Sludges, and Surface Waters. <i>Chimia</i> , 2003, 57, 485-491.	0.6	259
104	Changing the Substrate Reactivity of 2-Hydroxybiphenyl 3-Monooxygenase from <i>Pseudomonas azelaica</i> HBP1 by Directed Evolution. <i>Journal of Biological Chemistry</i> , 2002, 277, 5575-5582.	3.4	66
105	Hydroxylation of Indole by Laboratory-evolved 2-Hydroxybiphenyl 3-Monooxygenase. <i>Journal of Biological Chemistry</i> , 2002, 277, 34161-34167.	3.4	59
106	Leaching and Primary Biodegradation of Sulfonated Naphthalenes and Their Formaldehyde Condensates from Concrete Superplasticizers in Groundwater Affected by Tunnel Construction. <i>Environmental Science &amp; Technology</i> , 2002, 36, 3284-3289.	10.0	28
107	On the Biodegradation of $\beta$ -Peptides Part of the PhD thesis of J.V.S. Dissertation no. 14298, ETH Zürich, 2001.. <i>ChemBioChem</i> , 2002, 3, 424.	2.6	71
108	Transcriptional Organization and Dynamic Expression of the hbpCAD Genes, Which Encode the First Three Enzymes for 2-Hydroxybiphenyl Degradation in <i>Pseudomonas azelaica</i> HBP1. <i>Journal of Bacteriology</i> , 2001, 183, 270-279.	2.2	37

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109	Biotransformation of Various Substituted Aromatic Compounds to Chiral Dihydrodihydroxy Derivatives. <i>Applied and Environmental Microbiology</i> , 2001, 67, 3333-3339.	3.1	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 <i>Pseudomonas azelaica</i> HBP1. <i>Journal of Bacteriology</i> , 2000, 182, 405-417.	2.2	69
111	Effect of Chirality on the Microbial Degradation and the Environmental Fate of Chiral Pollutants. <i>Advances in Microbial Ecology</i> , 2000, , 201-231.	0.1	8
112	Catalytic Mechanism of 2-Hydroxybiphenyl 3-Monooxygenase, a Flavoprotein from <i>Pseudomonas azelaica</i> HBP1. <i>Journal of Biological Chemistry</i> , 1999, 274, 33355-33365.	3.4	43
113	Aerobic biodegradation of chiral phenoxyalkanoic acid derivatives during incubations with activated sludge. <i>FEMS Microbiology Ecology</i> , 1999, 29, 197-204.	2.7	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. <i>Biodegradation</i> , 1999, 10, 271-278.	3.0	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	<i>cis</i> -Chlorobenzene Dihydrodiol Dehydrogenase (TcbB) from <i>Pseudomonas</i> sp. Strain P51, Expressed in <i>Escherichia coli</i> DH5 $\alpha$ (pTCB149), Catalyzes Enantioselective Dehydrogenase Reactions. <i>Applied and Environmental Microbiology</i> , 1999, 65, 5242-5246.	3.1	20
117	Preparative scale production of 3-substituted catechols using a novel monooxygenase from <i>Pseudomonas azelaica</i> HBP 1. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1998, 5, 87-93.	1.8	62
118	<i>E. coli</i> JM109 pHBP461, a recombinant biocatalyst for the regioselective monohydroxylation of ortho-substituted phenols to their corresponding 3-substituted catechols. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 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. <i>Environmental Science &amp; Technology</i> , 1998, 32, 2070-2076.	10.0	84
120	Enantioselective Uptake and Degradation of the Chiral Herbicide Dichlorprop [( <i>R,S</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td <i>Bacteriology</i> , 1998, 180, 3368-3374.	2.2	67
121	Purification and Characterization of 2-Hydroxybiphenyl 3-Monooxygenase, a Novel NADH-dependent, FAD-containing Aromatic Hydroxylase from <i>Pseudomonas azelaica</i> HBP1. <i>Journal of Biological Chemistry</i> , 1997, 272, 24257-24265.	3.4	73
122	The Broad Substrate Chlorobenzene Dioxygenase and <i>cis</i> -Chlorobenzene Dihydrodiol Dehydrogenase of <i>Pseudomonas</i> sp. Strain P51 Are Linked Evolutionarily to the Enzymes for Benzene and Toluene Degradation. <i>Journal of Biological Chemistry</i> , 1996, 271, 4009-4016.	3.4	122
123	Degradation of 2- <i>sec</i> -butylphenol: 3- <i>sec</i> -butylcatechol, 2-hydroxy-6-oxo-7-methylnona-2,4-dienoic acid, and 2-methylbutyric acid as intermediates. <i>Biodegradation</i> , 1993, 4, 81-89.	3.0	12
124	5'-Methylbenzimidazolyl-cobamides are the corrinoids from some sulfate-reducing and sulfur-metabolizing bacteria. <i>FEBS Journal</i> , 1988, 176, 461-469.	0.2	49
125	Isolation of cobamides from <i>Methanothrix soehngenii</i> : 5-methylbenzimidazole as the $\gamma$ -ligand of the predominant cobamide. <i>Archives of Microbiology</i> , 1988, 150, 219-223.	2.2	13
126	Carbon monoxide dehydrogenase and acetate thiokinase in <i>Methanothrix soehngenii</i> . <i>FEMS Microbiology Letters</i> , 1984, 21, 287-292.	1.8	49