Lawrence P Wackett

List of Publications by Citations

395 papers	6,355 citations	46 h-index	76 g-index
407 ext. papers	7,113 ext. citations	5.8 avg, IF	6.33 L-index

#	Paper	IF	Citations
395	Haloalkene oxidation by the soluble methane monooxygenase from Methylosinus trichosporium OB3b: mechanistic and environmental implications. *Biochemistry*, **1990**, 29, 6419-27	3.2	345
394	Reductive dechlorination catalyzed by bacterial transition-metal coenzymes. *Environmental Science & Technology*, **1991**, 25, 715-722	10.3	313
393	Complete nucleotide sequence and organization of the atrazine catabolic plasmid pADP-1 from Pseudomonas sp. strain ADP. *Journal of Bacteriology*, **2001**, 183, 5684-97	3.5	303
392	Engineering Deinococcus radiodurans for metal remediation in radioactive mixed waste environments. *Nature Biotechnology*, **2000**, 18, 85-90	44.5	264
391	The atrazine catabolism genes atzABC are widespread and highly conserved. *Journal of Bacteriology*, **1998**, 180, 1951-4	3.5	206
390	Benzylic monooxygenation catalyzed by toluene dioxygenase from Pseudomonas putida. *Biochemistry*, **1988**, 27, 1360-7	3.2	185
389	Molecular basis of a bacterial consortium: interspecies catabolism of atrazine. *Applied and Environmental Microbiology*, **1998**, 64, 178-84	4.8	167
388	Arthrobacter aurescens TC1 metabolizes diverse s-triazine ring compounds. *Applied and Environmental Microbiology*, **2002**, 68, 5973-80	4.8	162
387	Engineering a recombinant Deinococcus radiodurans for organopollutant degradation in radioactive mixed waste environments. *Nature Biotechnology*, **1998**, 16, 929-33	44.5	147
386	The University of Minnesota Biocatalysis/Biodegradation Database: the first decade. *Nucleic Acids Research*, **2006**, 34, D517-21	20.1	136
385	Rapid hydrolysis of atrazine to hydroxyatrazine by soil bacteria. *Environmental Science & Technology*, **1993**, 27, 1943-1946	10.3	131
384	Field-scale remediation of atrazine-contaminated soil using recombinant Escherichia coli expressing atrazine chlorohydrolase. *Environmental Microbiology*, **2000**, 2, 91-8	5.2	122
383	Manganese(II)-dependent extradiol-cleaving catechol dioxygenase from Arthrobacter globiformis CM-2. *Biochemistry*, **1996**, 35, 160-70	3.2	120
382	Microbial genomics and the periodic table. *Applied and Environmental Microbiology*, **2004**, 70, 647-55	4.8	109
381	Melamine deaminase and atrazine chlorohydrolase: 98 percent identical but functionally different. *Journal of Bacteriology*, **2001**, 183, 2405-10	3.5	108
380	Widespread head-to-head hydrocarbon biosynthesis in bacteria and role of OleA. *Applied and Environmental Microbiology*, **2010**, 76, 3850-62	4.8	96
379	Novel enzyme activities and functional plasticity revealed by recombining highly homologous enzymes. *Chemistry and Biology*, **2001**, 8, 891-8		91

378	Biomass to fuels via microbial transformations. *Current Opinion in Chemical Biology*, **2008**, 12, 187-93	9.7	89
377	Metabolism of polyhalogenated compounds by a genetically engineered bacterium. *Nature*, **1994**, 368, 627-9	50.4	89
376	**2001**,		89
375	Reductive dehalogenation by cytochrome P450CAM: substrate binding and catalysis. *Biochemistry*, **1993**, 32, 9355-61	3.2	84
374	Mechanism and applications of Rieske non-heme iron dioxygenases. *Enzyme and Microbial Technology*, **2002**, 31, 577-587	3.8	82
373	Applied metagenomics. *Microbial Biotechnology*, **2013**, 6, 207-208	6.3	78
372	Product microbial disinfection and biotechnology. *Microbial Biotechnology*, **2015**, 8, 747-748	6.3	78
371	Methanotroph biotechnology. *Microbial Biotechnology*, **2014**, 7, 86-87	6.3	78
370	Preventing microbial adherence. *Microbial Biotechnology*, **2014**, 7, 638-639	6.3	78
369	Microbiology relevant to hydraulic fracturing and oil sands. *Microbial Biotechnology*, **2012**, 5, 773-774	6.3	78
368	Microbial bioremediation products. *Microbial Biotechnology*, **2013**, 6, 612-613	6.3	78
367	Wastewater treatment microbiology. *Microbial Biotechnology*, **2011**, 4, 428-429	6.3	78
366	Bacterial riboswitches. *Microbial Biotechnology*, **2011**, 4, 683-684	6.3	78
365	Biodegradation of atrazine in transgenic plants expressing a modified bacterial atrazine chlorohydrolase (atzA) gene. *Plant Biotechnology Journal*, **2005**, 3, 475-86	11.6	78
364	The University of Minnesota pathway prediction system: predicting metabolic logic. *Nucleic Acids Research*, **2008**, 36, W427-32	20.1	73
363	Rapid evolution of bacterial catabolic enzymes: a case study with atrazine chlorohydrolase. *Biochemistry*, **2001**, 40, 12747-53	3.2	72
362	The University of Minnesota Pathway Prediction System: multi-level prediction and visualization. *Nucleic Acids Research*, **2011**, 39, W406-11	20.1	70
361	Structure, function, and insights into the biosynthesis of a head-to-head hydrocarbon in Shewanella oneidensis strain MR-1. *Applied and Environmental Microbiology*, **2010**, 76, 3842-9	4.8	69

360	Microbial pathway prediction: a functional group approach. *Journal of Chemical Information and Computer Sciences*, **2003**, 43, 1051-7		66
359	Rat liver protein linking chemical and immunological detoxification systems. *Nature*, **1992**, 360, 269-70	50.4	63
358	Deinococcus radiodurans engineered for complete toluene degradation facilitates Cr(VI) reduction. *Microbiology (United Kingdom)*, **2006**, 152, 2469-2477	2.9	62
357	Substrate specificity of atrazine chlorohydrolase and atrazine-catabolizing bacteria. *Applied and Environmental Microbiology*, **2000**, 66, 4247-52	4.8	59
356	On the origins of cyanuric acid hydrolase: purification, substrates, and prevalence of AtzD from Pseudomonas sp. strain ADP. *Applied and Environmental Microbiology*, **2003**, 69, 3653-7	4.8	58
355	Biodegradation in Waters from Hydraulic Fracturing: Chemistry, Microbiology, and Engineering. *Journal of Environmental Engineering, ASCE*, **2014**, 140,	2	54
354	Allophanate hydrolase, not urease, functions in bacterial cyanuric acid metabolism. *Applied and Environmental Microbiology*, **2005**, 71, 4437-45	4.8	54
353	Purification and characterization of OleA from Xanthomonas campestris and demonstration of a non-decarboxylative Claisen condensation reaction. *Journal of Biological Chemistry*, **2011**, 286, 10930-8	5.4	53
352	Biosynthesis and chemical diversity of □lactone natural products. *Natural Product Reports*, **2019**, 36, 458-475	15.1	49
351	Cyanobacterial aldehyde deformylase oxygenation of aldehydes yields n-1 aldehydes and alcohols in addition to alkanes. *ACS Catalysis*, **2013**, 3, 2228-2238	13.1	48
350	Substrate specificity and colorimetric assay for recombinant TrzN derived from Arthrobacter aurescens TC1. *Applied and Environmental Microbiology*, **2005**, 71, 2214-20	4.8	48
349	Evolution of enzymes for the metabolism of new chemical inputs into the environment. *Journal of Biological Chemistry*, **2004**, 279, 41259-62	5.4	45
348	Genomic and biochemical studies demonstrating the absence of an alkane-producing phenotype in Vibrio furnissii M1. *Applied and Environmental Microbiology*, **2007**, 73, 7192-8	4.8	43
347	Purification and characterization of allophanate hydrolase (AtzF) from Pseudomonas sp. strain ADP. *Journal of Bacteriology*, **2005**, 187, 3731-8	3.5	43
346	Microbial-based motor fuels: science and technology. *Microbial Biotechnology*, **2008**, 1, 211-25	6.3	42
345	TrzN from Arthrobacter aurescens TC1 Is a zinc amidohydrolase. *Journal of Bacteriology*, **2006**, 188, 5859-64	3.5	42
344	□Lactone Synthetase Found in the Olefin Biosynthesis Pathway. *Biochemistry*, **2017**, 56, 348-351	3.2	38
343	MIF protein are theta-class glutathione S-transferase homologs. *Protein Science*, **1993**, 2, 2095-102	6.3	38

342	Use of the University of Minnesota Biocatalysis/Biodegradation Database for study of microbial degradation. *Microbial Informatics and Experimentation*, **2012**, 2, 1		36
341	Stable isotope probing in biodegradation research. *Trends in Biotechnology*, **2004**, 22, 153-4	15.1	36
340	Questioning our perceptions about evolution of biodegradative enzymes. *Current Opinion in Microbiology*, **2009**, 12, 244-51	7.9	32
339	Engineering microbes to produce biofuels. *Current Opinion in Biotechnology*, **2011**, 22, 388-93	11.4	31
338	Silica gel-encapsulated AtzA biocatalyst for atrazine biodegradation. *Applied Microbiology and Biotechnology*, **2012**, 96, 231-40	5.7	29
337	Bacterial ammeline metabolism via guanine deaminase. *Journal of Bacteriology*, **2010**, 192, 1106-12	3.5	27
336	In Silico Identification of Bioremediation Potential: Carbamazepine and Other Recalcitrant Personal Care Products. *Environmental Science & Technology*, **2017**, 51, 880-888	10.3	26
335	Purification and characterization of TrzF: biuret hydrolysis by allophanate hydrolase supports growth. *Applied and Environmental Microbiology*, **2006**, 72, 2491-5	4.8	26
334	Enzymatic degradation of chlorodiamino-s-triazine. *Applied and Environmental Microbiology*, **2002**, 68, 4672-5	4.8	26
333	Stimulus-responsive self-assembly of protein-based fractals by computational design. *Nature Chemistry*, **2019**, 11, 605-614	17.6	25
332	Defining sequence space and reaction products within the cyanuric acid hydrolase (AtzD)/barbiturase protein family. *Journal of Bacteriology*, **2012**, 194, 4579-88	3.5	25
331	Directed evolution of new enzymes and pathways for environmental biocatalysis. *Annals of the New York Academy of Sciences*, **1998**, 864, 142-52	6.5	25
330	X-ray structure and mutational analysis of the atrazine Chlorohydrolase TrzN. *Journal of Biological Chemistry*, **2010**, 285, 30606-14	5.4	24
329	Crystal structures of Xanthomonas campestris OleA reveal features that promote head-to-head condensation of two long-chain fatty acids. *Biochemistry*, **2012**, 51, 4138-46	3.2	23
328	Silicon alkoxide cross-linked silica nanoparticle gels for encapsulation of bacterial biocatalysts. *Journal of Materials Chemistry A*, **2013**, 1, 11051	13	22
327	C29 olefinic hydrocarbons biosynthesized by Arthrobacter species. *Applied and Environmental Microbiology*, **2009**, 75, 1774-7	4.8	22
326	Plasmid localization and organization of melamine degradation genes in Rhodococcus sp. strain Mel. *Applied and Environmental Microbiology*, **2012**, 78, 1397-403	4.8	21
325	Adsorption and Biodegradation of Aromatic Chemicals by Bacteria Encapsulated in a Hydrophobic Silica Gel. *ACS Applied Materials & Interfaces*, **2017**, 9, 26848-26858	9.5	20

324	Use of silica-encapsulated Pseudomonas sp. strain NCIB 9816-4 in biodegradation of novel hydrocarbon ring structures found in hydraulic fracturing waters. *Applied and Environmental Microbiology*, **2014**, 80, 4968-76	4.8	19
323	Manufacturing of bioreactive nanofibers for bioremediation. *Biotechnology and Bioengineering*, **2014**, 111, 1483-93	4.9	19
322	A New Family of Biuret Hydrolases Involved in S-Triazine Ring Metabolism. *ACS Catalysis*, **2011**, 2011, 1075-1082	13.1	19
321	Modelling and optimization of a bioremediation system utilizing silica gel encapsulated whole-cell biocatalyst. *Chemical Engineering Journal*, **2015**, 259, 574-580	14.7	18
320	Characteristic isotope fractionation patterns in s-triazine degradation have their origin in multiple protonation options in the s-triazine hydrolase TrzN. *Environmental Science & Technology*, **2015** , 49, 3490-8	10.3	18
319	Substrate Trapping in Crystals of the Thiolase OleA Identifies Three Channels That Enable Long Chain Olefin Biosynthesis. *Journal of Biological Chemistry*, **2016**, 291, 26698-26706	5.4	18
318	Simulation of the Bottleneck Controlling Access into a Rieske Active Site: Predicting Substrates of Naphthalene 1,2-Dioxygenase. *Journal of Chemical Information and Modeling*, **2017**, 57, 550-561	6.1	17
317	Novel biocatalysis by database mining. *Current Opinion in Biotechnology*, **2004**, 15, 280-4	11.4	17
316	Global analysis of adenylate-forming enzymes reveals lactone biosynthesis pathway in pathogenic. *Journal of Biological Chemistry*, **2020**, 295, 14826-14839	5.4	16
315	Active Multienzyme Assemblies for Long-Chain Olefinic Hydrocarbon Biosynthesis. *Journal of Bacteriology*, **2017**, 199,	3.5	15
314	Ancient Evolution and Recent Evolution Converge for the Biodegradation of Cyanuric Acid and Related Triazines. *Applied and Environmental Microbiology*, **2016**, 82, 1638-1645	4.8	14
313	Thermostable cyanuric acid hydrolase from Moorella thermoacetica ATCC 39073. *Applied and Environmental Microbiology*, **2009**, 75, 6986-91	4.8	14
312	Bacterial Cyanuric Acid Hydrolase for Water Treatment. *Applied and Environmental Microbiology*, **2015**, 81, 6660-8	4.8	13
311	Microbial Degradation of s-Triazine Herbicides **2008**, 301-328		13
310	Enhanced biodegradation of atrazine by bacteria encapsulated in organically modified silica gels. *Journal of Colloid and Interface Science*, **2018**, 510, 57-68	9.3	12
309	The ever-expanding limits of enzyme catalysis and biodegradation: polyaromatic, polychlorinated, polyfluorinated, and polymeric compounds. *Biochemical Journal*, **2020**, 477, 2875-2891	3.8	12
308	Dehalogenation in environmental biotechnology. *Current Opinion in Biotechnology*, **1994**, 5, 260-5	11.4	11
307	Solving the Conundrum: Widespread Proteins Annotated for Urea Metabolism in Bacteria Are Carboxyguanidine Deiminases Mediating Nitrogen Assimilation from Guanidine. *Biochemistry*, **2020**, 59, 3258-3270	3.2	11

306	Expanding the cyanuric acid hydrolase protein family to the fungal kingdom. *Journal of Bacteriology* , **2013**, 195, 5233-41	3.5	10
305	Cloning, purification, crystallization and preliminary X-ray diffraction of the OleC protein from Stenotrophomonas maltophilia involved in head-to-head hydrocarbon biosynthesis. *Acta Crystallographica Section F: Structural Biology Communications*, **2010**, 66, 1108-10		10
304	Engineering of a silica encapsulation platform for hydrocarbon degradation using Pseudomonas sp. NCIB 9816-4. *Biotechnology and Bioengineering*, **2016**, 113, 513-21	4.9	10
303	Enhancement of biocatalyst activity and protection against stressors using a microbial exoskeleton. *Scientific Reports*, **2019**, 9, 3158	4.9	9
302	Global biogeochemical cycles. *Environmental Microbiology*, **2016**, 18, 1088-1089	5.2	9
301	Methodological Advances to Study Contaminant Biotransformation: New Prospects for Understanding and Reducing Environmental Persistence?. *ACS ES&T Water*, **2021**, 1, 1541-1554		9
300	Long-term preservation of silica gel-encapsulated bacterial biocatalysts by desiccation. *Journal of Sol-Gel Science and Technology*, **2015**, 74, 823-833	2.3	8
299	Silica Gel for Enhanced Activity and Hypochlorite Protection of Cyanuric Acid Hydrolase in Recombinant Escherichia□coli. *MBio*, **2015**, 6, e01477-15	7.8	8
298	Cyanuric acid hydrolase from Azorhizobium caulinodans ORS 571: crystal structure and insights into a new class of Ser-Lys dyad proteins. *PLoS ONE*, **2014**, 9, e99349	3.7	8
297	Bio-based and biodegradable plastics: An annotated selection of World Wide Web sites relevant to the topics in microbial biotechnology. *Microbial Biotechnology*, **2019**, 12, 1492-1493	6.3	7
296	Production of monodisperse silica gel microspheres for bioencapsulation by extrusion into an oil cross-flow. *Journal of Microencapsulation*, **2016**, 33, 412-420	3.4	7
295	Silica ecosystem for synergistic biotransformation. *Scientific Reports*, **2016**, 6, 27404	4.9	7
294	Machine learning-based prediction of activity and substrate specificity for OleA enzymes in the thiolase superfamily. *Synthetic Biology*, **2020**, 5,	3.3	6
293	Microbial biodegradation of biuret: defining biuret hydrolases within the isochorismatase superfamily. *Environmental Microbiology*, **2018**, 20, 2099-2111	5.2	6
292	Mechanism of a Standalone □Lactone Synthetase: New Continuous Assay for a Widespread ANL Superfamily Enzyme. *ChemBioChem*, **2019**, 20, 1701-1711	3.8	5
291	Purification and characterization of the mutant enzyme W117Y of the dichloromethane dehalogenase from Methylophilus sp. strain DM11. *Annals of the New York Academy of Sciences*, **1998**, 864, 210-3	6.5	5
290	Evolution of New Enzymes and Pathways: Soil Microbes Adapt to s-Triazine Herbicides. *ACS Symposium Series*, **2003**, 37-48	0.4	5
289	OleA Glu117 is key to condensation of two fatty-acyl coenzyme A substrates in long-chain olefin biosynthesis. *Biochemical Journal*, **2017**, 474, 3871-3886	3.8	4

288	Soil DNA and the microbial metagenome. An annotated selection of World Wide Web sites relevant to the topics in Environmental Microbiology Web alert. *Environmental Microbiology*, **2001**, 3, 352-3	5.2	4
287	Cyanuric Acid Biodegradation via Biuret: Physiology, Taxonomy, and Geospatial Distribution. *Applied and Environmental Microbiology*, **2020**, 86,	4.8	4
286	Structure of the Cyanuric Acid Hydrolase TrzD Reveals Product Exit Channel. *Scientific Reports*, **2017**, 7, 45277	4.9	3
285	Assay Reveals Microbial OleA Thiolases Initiating Hydrocarbon and Lactone Biosynthesis. *MBio*, **2020**, 11,	7.8	3
284	The role of OleA His285 in orchestration of long-chain acyl-coenzyme A substrates. *FEBS Letters*, **2018**, 592, 987-998	3.8	3
283	Microbial acid fermentation products: An annotated selection of World Wide Web sites relevant to the topics in microbial biotechnology. *Microbial Biotechnology*, **2018**, 11, 268-269	6.3	3
282	Bioremediation of oil spills. *Microbial Biotechnology*, **2012**, 5, 450-451	6.3	3
281	Microbial strain collections and information. *Microbial Biotechnology*, **2014**, 7, 371-372	6.3	3
280	Crystallization and preliminary X-ray diffraction studies of cyanuric acid hydrolase from Azorhizobium caulinodans. *Acta Crystallographica Section F: Structural Biology Communications*, **2013**, 69, 880-3		3
279	Microbes and antibiotics. *Microbial Biotechnology*, **2013**, 6, 740-741	6.3	3
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277	Unexpected Mechanism of Biodegradation and Defluorination of 2,2-Difluoro-1,3-Benzodioxole by Pseudomonas putida F1. *MBio*, **2021**, e0300121	7.8	3
276	Natural product databases: An annotated selection of World Wide Web sites relevant to the topics in microbial biotechnology. *Microbial Biotechnology*, **2018**, 11, 797-798	6.3	3
275	Nothing lasts forever: understanding microbial biodegradation of polyfluorinated compounds and perfluorinated alkyl substances. *Microbial Biotechnology*, **2021**,	6.3	3
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271	Hydrocarbon Biosynthesis in Microorganisms **2015**, 13-31		2

270	Rapid method using two microbial enzymes for detection of L-abrine in food as a marker for the toxic protein abrin. *Applied and Environmental Microbiology*, **2015**, 81, 1610-5	4.8	2
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268	Lactic acid bacteria: An annotated selection of World Wide Web sites relevant to the topics in microbial biotechnology. *Microbial Biotechnology*, **2016**, 9, 525-6	6.3	2
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266	Halophilic microorganisms: An annotated selection of World Wide Web sites relevant to the topics in environmental microbiology. *Environmental Microbiology Reports*, **2012**, 4, 467-8	3.7	2
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264	Microbial adhesion. *Environmental Microbiology Reports*, **2015**, 7, 164-165	3.7	2
263	Microbial Diversity: Catabolism of Organic Compounds Is Broadly Distributed **2014**, 39-69		2
262	Permeabilized microbes in biotechnology. *Microbial Biotechnology*, **2014**, 7, 485-486	6.3	2
261	Antibiosis in the environment. *Environmental Microbiology Reports*, **2014**, 6, 532-533	3.7	2
260	Bacteria in sand: an annotated selection of World Wide Web sites relevant to the topics in Environmental Microbiology. *Environmental Microbiology*, **2013**, 15, 2144-5	5.2	2
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257	Microbial biocatalysis and biodegradation informatics. *Nature Biotechnology*, **1997**, 15, 1406	44.5	2
256	Quorum sensing. *Environmental Microbiology*, **2008**, 10, 2899-2900	5.2	2
255	Environmental fate of pesticides. *Environmental Microbiology*, **2007**, 9, 3150-1	5.2	2
254	Pathways to discovering new microbial metabolism for functional genomics and biotechnology. *Advances in Applied Microbiology*, **2007**, 61, 219-32	4.9	2
253	Microbes in biocontrol. An annotated selection of World Wide Web sites relevant to the topics in Environmental Microbiology. *Environmental Microbiology*, **2000**, 2, 348	5.2	2

252	Atrazine Hydrolysis by a Bacterial Enzyme. *ACS Symposium Series*, **1998**, 82-87	0.4	2
251	Global analysis of adenylate-forming enzymes reveals □actone biosynthesis pathway in pathogenicNocardia		2
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244	Pseudomonas. *Environmental Microbiology*, **2015**, 17, 253-254	5.2	1
243	Engineering microbial consortia for biotechnology. *Microbial Biotechnology*, **2015**, 8, 361-362	6.3	1
242	Specialty chemicals from microbes. *Microbial Biotechnology*, **2015**, 8, 614-615	6.3	1
241	SARS-CoV-2: Environment and spread: An annotated selection of World Wide Web sites relevant to the topics in environmental microbiology. *Environmental Microbiology*, **2020**, 22, 2443-2444	5.2	1
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229	Fungal bioproducts. *Microbial Biotechnology*, **2015**, 8, 1013-1014	6.3	1
228	Design of porous silica gels for bioremediation of aromatic hydrocarbons **2015**,		1
227	Identifying Novel Microbial Catalysis by Enrichment Culture and Screening **2014**, 27-38		1
226	Physiological Processes: Enzymes, Emulsification, Uptake, and Chemotaxis **2014**, 95-113		1
225	Metabolic Logic and Pathway Maps **2014**, 135-155		1
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223	Industrial applications of microbial salt-tolerant enzymes. *Microbial Biotechnology*, **2012**, 5, 668-669	6.3	1
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220	Microbial responses to biocides. *Environmental Microbiology*, **2013**, 15, 3119-3120	5.2	1
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217	Microbial ethanol for fuel and food. An annotated selection of World Wide Web sites relevant to the topics in environmental microbiology. *Environmental Microbiology*, **2008**, 10, 278-9	5.2	1

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215	Predicting Microbial Biocatalysis and Biodegradation157-170		1
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213	Microbial seed treatments: An annotated selection of World Wide Web sites relevant to the topics in microbial biotechnology. *Microbial Biotechnology*, **2020**, 13, 299-300	6.3	1
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