

# Harry R Beller

## List of Publications by Year in descending order

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79  
papers

5,814  
citations

50170

46  
h-index

79541

73  
g-index

82  
all docs

82  
docs citations

82  
times ranked

5575  
citing authors

#	ARTICLE	IF	CITATIONS
1	A genomic catalog of Earth's microbiomes. <i>Nature Biotechnology</i> , 2021, 39, 499-509.	9.4	457
2	Anaerobic bacterial metabolism of hydrocarbons. <i>FEMS Microbiology Reviews</i> , 1998, 22, 459-473.	3.9	400
3	The Genome Sequence of the Obligately Chemolithoautotrophic, Facultatively Anaerobic Bacterium <i>Thiobacillus denitrificans</i> . <i>Journal of Bacteriology</i> , 2006, 188, 1473-1488.	1.0	306
4	A Real-Time Polymerase Chain Reaction Method for Monitoring Anaerobic, Hydrocarbon-Degrading Bacteria Based on a Catabolic Gene. <i>Environmental Science &amp; Technology</i> , 2002, 36, 3977-3984.	4.6	197
5	Anaerobic activation of toluene and o-xylene by addition to fumarate in denitrifying strain T. <i>Journal of Bacteriology</i> , 1997, 179, 670-676.	1.0	192
6	Isolation and characterization of a novel toluene-degrading, sulfate-reducing bacterium. <i>Applied and Environmental Microbiology</i> , 1996, 62, 1188-1196.	1.4	186
7	Engineering of <i>Ralstonia eutropha</i> H16 for Autotrophic and Heterotrophic Production of Methyl Ketones. <i>Applied and Environmental Microbiology</i> , 2013, 79, 4433-4439.	1.4	139
8	Anaerobic, Nitrate-Dependent Oxidation of U(IV) Oxide Minerals by the Chemolithoautotrophic Bacterium <i>Thiobacillus denitrificans</i> . <i>Applied and Environmental Microbiology</i> , 2005, 71, 2170-2174.	1.4	138
9	Genes Involved in Long-Chain Alkene Biosynthesis in <i>Micrococcus luteus</i> . <i>Applied and Environmental Microbiology</i> , 2010, 76, 1212-1223.	1.4	138
10	Microbial degradation of toluene under sulfate-reducing conditions and the influence of iron on the process. <i>Applied and Environmental Microbiology</i> , 1992, 58, 786-793.	1.4	138
11	Natural products as biofuels and bio-based chemicals: fatty acids and isoprenoids. <i>Natural Product Reports</i> , 2015, 32, 1508-1526.	5.2	131
12	Engineering of Bacterial Methyl Ketone Synthesis for Biofuels. <i>Applied and Environmental Microbiology</i> , 2012, 78, 70-80.	1.4	130
13	Metatranscriptomic evidence of pervasive and diverse chemolithoautotrophy relevant to C, S, N and Fe cycling in a shallow alluvial aquifer. <i>ISME Journal</i> , 2016, 10, 2106-2117.	4.4	119
14	The East River, Colorado, Watershed: A Mountainous Community Testbed for Improving Predictive Understanding of Multiscale Hydrological-Biogeochemical Dynamics. <i>Vadose Zone Journal</i> , 2018, 17, 1-25.	1.3	115
15	Metabolites Detected during Biodegradation of 1,3-C <sub>6</sub> -Benzene in Nitrate-Reducing and Methanogenic Enrichment Cultures. <i>Environmental Science &amp; Technology</i> , 2005, 39, 6681-6691.	4.6	112
16	Benzylsuccinate Formation as a Means of Anaerobic Toluene Activation by Sulfate-Reducing Strain PRTOL1. <i>Applied and Environmental Microbiology</i> , 1997, 63, 3729-3731.	1.4	111
17	Initial Reactions in Anaerobic Oxidation of m-Xylene by the Denitrifying Bacterium <i>Azoarcus</i> sp. Strain T. <i>Journal of Bacteriology</i> , 1999, 181, 6403-6410.	1.0	110
18	Lessons from Two Design-Build-Test-Learn Cycles of Dodecanol Production in <i>Escherichia coli</i> Aided by Machine Learning. <i>ACS Synthetic Biology</i> , 2019, 8, 1337-1351.	1.9	107

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19	Byproducts of Anaerobic Alkylbenzene Metabolism Useful as Indicators of in Situ Bioremediation. <i>Environmental Science &amp; Technology</i> , 1995, 29, 2864-2870.	4.6	106
20	Development of a broad-host synthetic biology toolbox for <i>Ralstonia eutropha</i> and its application to engineering hydrocarbon biofuel production. <i>Microbial Cell Factories</i> , 2013, 12, 107.	1.9	103
21	Water Table Dynamics and Biogeochemical Cycling in a Shallow, Variably-Saturated Floodplain. <i>Environmental Science &amp; Technology</i> , 2017, 51, 3307-3317.	4.6	100
22	Analysis of the Novel Benzylsuccinate Synthase Reaction for Anaerobic Toluene Activation Based on Structural Studies of the Product. <i>Journal of Bacteriology</i> , 1998, 180, 5454-5457.	1.0	93
23	Metabolic indicators for detecting in situ anaerobic alkylbenzene degradation. , 2000, 11, 125-139.		86
24	Metabolic by-products of anaerobic toluene degradation by sulfate-reducing enrichment cultures. <i>Applied and Environmental Microbiology</i> , 1992, 58, 3192-3195.	1.4	86
25	Anaerobic Toluene Activation by Benzylsuccinate Synthase in a Highly Enriched Methanogenic Culture. <i>Applied and Environmental Microbiology</i> , 2000, 66, 5503-5505.	1.4	82
26	Use of Liquid Chromatography/Tandem Mass Spectrometry To Detect Distinctive Indicators of In Situ RDX Transformation in Contaminated Groundwater. <i>Environmental Science &amp; Technology</i> , 2002, 36, 2060-2066.	4.6	82
27	Whole-Genome Transcriptional Analysis of Chemolithoautotrophic Thiosulfate Oxidation by <i>Thiobacillus denitrificans</i> under Aerobic versus Denitrifying Conditions. <i>Journal of Bacteriology</i> , 2006, 188, 7005-7015.	1.0	80
28	Aerobic Biodegradation of Methyl tert -Butyl Ether by Aquifer Bacteria from Leaking Underground Storage Tank Sites. <i>Applied and Environmental Microbiology</i> , 2001, 67, 5824-5829.	1.4	77
29	Analysis of Perchlorate in Groundwater by Electrospray Ionization Mass Spectrometry/Mass Spectrometry. <i>Environmental Science &amp; Technology</i> , 2000, 34, 1862-1864.	4.6	76
30	PCR Amplification-Independent Methods for Detection of Microbial Communities by the High-Density Microarray PhyloChip. <i>Applied and Environmental Microbiology</i> , 2011, 77, 6313-6322.	1.4	74
31	Physiological and Transcriptional Studies of Cr(VI) Reduction under Aerobic and Denitrifying Conditions by an Aquifer-Derived <i>Pseudomonad</i> . <i>Environmental Science &amp; Technology</i> , 2010, 44, 7491-7497.	4.6	73
32	Substrate range of benzylsuccinate synthase from <i>Azoarcus</i> sp. strain T. <i>FEMS Microbiology Letters</i> , 1999, 178, 147-153.	0.7	72
33	Anaerobic biotransformation of RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine) by aquifer bacteria using hydrogen as the sole electron donor. <i>Water Research</i> , 2002, 36, 2533-2540.	5.3	71
34	In Situ Transformation of Deuterated Toluene and Xylene to Benzylsuccinic Acid Analogues in BTEX-Contaminated Aquifers. <i>Environmental Science &amp; Technology</i> , 2002, 36, 4127-4134.	4.6	69
35	Biochemical and genetic evidence of benzylsuccinate synthase in toluene-degrading, ferric iron-reducing <i>Geobacter metallireducens</i> . <i>Biodegradation</i> , 2002, 13, 149-154.	1.5	69
36	Comparative Assessments of Benzene, Toluene, and Xylene Natural Attenuation by Quantitative Polymerase Chain Reaction Analysis of a Catabolic Gene, Signature Metabolites, and Compound-Specific Isotope Analysis. <i>Environmental Science &amp; Technology</i> , 2008, 42, 6065-6072.	4.6	68

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37	Genome Sequence of the Fleming Strain of <i>Micrococcus luteus</i> , a Simple Free-Living Actinobacterium. <i>Journal of Bacteriology</i> , 2010, 192, 841-860.	1.0	68
38	Genomic and Physiological Characterization of the Chromate-Reducing, Aquifer-Derived Firmicute <i>Pelosinus</i> sp. Strain HCF1. <i>Applied and Environmental Microbiology</i> , 2013, 79, 63-73.	1.4	65
39	Identification of intermediates formed during anaerobic benzene degradation by an iron-reducing enrichment culture. <i>Environmental Microbiology</i> , 2008, 10, 1703-1712.	1.8	63
40	Reoxidation of Chromium(III) Products Formed under Different Biogeochemical Regimes. <i>Environmental Science &amp; Technology</i> , 2017, 51, 4918-4927.	4.6	60
41	Differential Isotopic Fractionation during Cr(VI) Reduction by an Aquifer-Derived Bacterium under Aerobic versus Denitrifying Conditions. <i>Applied and Environmental Microbiology</i> , 2012, 78, 2462-2464.	1.4	57
42	" Genome-enabled studies of anaerobic, nitrate-dependent iron oxidation in the chemolithoautotrophic bacterium <i>Thiobacillus denitrificans</i> ". <i>Frontiers in Microbiology</i> , 2013, 4, 249.	1.5	54
43	Substantial improvements in methyl ketone production in <i>E. coli</i> and insights on the pathway from in vitro studies. <i>Metabolic Engineering</i> , 2014, 26, 67-76.	3.6	53
44	Biogeochemistry and natural attenuation of nitrate in groundwater at an explosives test facility. <i>Applied Geochemistry</i> , 2004, 19, 1483-1494.	1.4	52
45	Monoterpene <i>thermometer</i> ™ of tropical forest atmosphere response to climate warming. <i>Plant, Cell and Environment</i> , 2017, 40, 441-452.	2.8	52
46	Analysis of Benzylsuccinates in Groundwater by Liquid Chromatography/Tandem Mass Spectrometry and Its Use for Monitoring In Situ BTEX Biodegradation. <i>Environmental Science &amp; Technology</i> , 2002, 36, 2724-2728.	4.6	50
47	Discovery of enzymes for toluene synthesis from anoxic microbial communities. <i>Nature Chemical Biology</i> , 2018, 14, 451-457.	3.9	47
48	Optimization of the IPP-bypass mevalonate pathway and fed-batch fermentation for the production of isoprenol in <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2019, 56, 85-96.	3.6	46
49	Biochemical and Structural Studies of NADH-Dependent FabG Used To Increase the Bacterial Production of Fatty Acids under Anaerobic Conditions. <i>Applied and Environmental Microbiology</i> , 2014, 80, 497-505.	1.4	42
50	The Snowmelt Niche Differentiates Three Microbial Life Strategies That Influence Soil Nitrogen Availability During and After Winter. <i>Frontiers in Microbiology</i> , 2020, 11, 871.	1.5	32
51	Methyl ketone production by <i>Pseudomonas putida</i> is enhanced by plant-derived amino acids. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1909-1922.	1.7	29
52	In vitro Characterization of Phenylacetate Decarboxylase, a Novel Enzyme Catalyzing Toluene Biosynthesis in an Anaerobic Microbial Community. <i>Scientific Reports</i> , 2016, 6, 31362.	1.6	27
53	Engineering <i>E. coli</i> for simultaneous glucose-xylose utilization during methyl ketone production. <i>Microbial Cell Factories</i> , 2018, 17, 12.	1.9	27
54	Investigation of Proposed Ladderane Biosynthetic Genes from Anammox Bacteria by Heterologous Expression in <i>E. coli</i> . <i>PLoS ONE</i> , 2016, 11, e0151087.	1.1	26

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55	Analysis of anaerobic BTX biodegradation in a subarctic aquifer using isotopes and benzylsuccinates. <i>Journal of Contaminant Hydrology</i> , 2005, 81, 167-186.	1.6	25
56	Divergent Aquifer Biogeochemical Systems Converge on Similar and Unexpected Cr(VI) Reduction Products. <i>Environmental Science &amp; Technology</i> , 2014, 48, 10699-10706.	4.6	24
57	Anaerobic bacterial metabolism of hydrocarbons. , 0, .		18
58	The role of iron in enhancing anaerobic toluene degradation in sulfate-reducing enrichment cultures. <i>Microbial Ecology</i> , 1995, 30, 105-14.	1.4	17
59	Development of a Genetic System for the Chemolithoautotrophic Bacterium <i>Thiobacillus denitrificans</i> . <i>Applied and Environmental Microbiology</i> , 2007, 73, 3265-3271.	1.4	17
60	Biochemical production of ethanol and fatty acid ethyl esters from switchgrass: A comparative analysis of environmental and economic performance. <i>Biomass and Bioenergy</i> , 2013, 49, 49-62.	2.9	17
61	Identification of c-type cytochromes involved in anaerobic, bacterial U(IV) oxidation. <i>Biodegradation</i> , 2009, 20, 45-53.	1.5	16
62	Improving methyl ketone production in <i>Escherichia coli</i> by heterologous expression of NADH-dependent FabG. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1161-1172.	1.7	15
63	Metatranscriptomic Analysis Reveals Unexpectedly Diverse Microbial Metabolism in a Biogeochemical Hot Spot in an Alluvial Aquifer. <i>Frontiers in Microbiology</i> , 2017, 8, 40.	1.5	14
64	Methyl Ketones from Municipal Solid Waste Blends by One-Step Ionic-Liquid Pretreatment, Saccharification, and Fermentation. <i>ChemSusChem</i> , 2019, 12, 4313-4322.	3.6	14
65	Insight into the Mechanism of Phenylacetate Decarboxylase (PhdB), a Toluene-Producing Glycyl Radical Enzyme. <i>ChemBioChem</i> , 2020, 21, 663-671.	1.3	14
66	Generalized Schemes for High-Throughput Manipulation of the <i>Desulfovibrio vulgaris</i> Genome. <i>Applied and Environmental Microbiology</i> , 2011, 77, 7595-7604.	1.4	13
67	Hexachlorophene distributions in estuarine sediments. <i>Bulletin of Environmental Contamination and Toxicology</i> , 1988, 41, 645-650.	1.3	11
68	Characterization of Chromium Bioremediation Products in Flow-Through Column Sediments Using Micro-X-ray Fluorescence and X-ray Absorption Spectroscopy. <i>Journal of Environmental Quality</i> , 2015, 44, 729-738.	1.0	11
69	Structure of FabH and factors affecting the distribution of branched fatty acids in <i>Micrococcus luteus</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012, 68, 1320-1328.	2.5	9
70	Use of carbon stable isotopes to monitor biostimulation and electron donor fate in chromium-contaminated groundwater. <i>Chemosphere</i> , 2019, 235, 440-446.	4.2	7
71	Complete genome sequence of <i>Tolomonas auensis</i> type strain (TA 4T). <i>Standards in Genomic Sciences</i> , 2011, 5, 112-120.	1.5	6
72	Anaerobic Dissolution Rates of U(IV)-Oxide by Abiotic and Nitrate-Dependent Bacterial Pathways. <i>Environmental Science &amp; Technology</i> , 2020, 54, 8010-8021.	4.6	6

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73	Genetic Manipulation of the Obligate Chemolithoautotrophic Bacterium <i>Thiobacillus denitrificans</i> . <i>Methods in Molecular Biology</i> , 2012, 881, 99-136.	0.4	5
74	Functionalizing bacterial cell surfaces with a phage protein. <i>Chemical Communications</i> , 2013, 49, 910-912.	2.2	4
75	Definitive Alkene Identification Needed for in Vitro Studies with Ole (Olefin Biosynthesis) Proteins. <i>Journal of Biological Chemistry</i> , 2011, 286, 1e11.	1.6	3
76	Microbial ElectroCatalytic (MEC) Biofuel Production. , 2013, , 1091-1099.		2
77	Enhanced fatty acid production in engineered chemolithoautotrophic bacteria using reduced sulfur compounds as energy sources. <i>Metabolic Engineering Communications</i> , 2016, 3, 211-215.	1.9	1
78	Paired RNA Radiocarbon and Sequencing Analyses Indicate the Importance of Autotrophy in a Shallow Alluvial Aquifer. <i>Scientific Reports</i> , 2019, 9, 10370.	1.6	1
79	COMBINED RADIOCARBON AND SEQUENCING ANALYSES TO UNDERSTAND CARBON SOURCES IN GROUNDWATER SYSTEMS. , 2020, , .		0