

# Martin Keller

## List of Publications by Year in descending order

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49  
papers

10,756  
citations

126907

33  
h-index

254184

43  
g-index

49  
all docs

49  
docs citations

49  
times ranked

12306  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lignin Valorization: Improving Lignin Processing in the Biorefinery. <i>Science</i> , 2014, 344, 1246843.	12.6	2,994
2	The complete genome of the hyperthermophilic bacterium <i>Aquifex aeolicus</i> . <i>Nature</i> , 1998, 392, 353-358.	27.8	1,120
3	How biotech can transform biofuels. <i>Nature Biotechnology</i> , 2008, 26, 169-172.	17.5	984
4	Cultivating the uncultured. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 15681-15686.	7.1	721
5	Lignin content in natural <i>Populus</i> variants affects sugar release. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 6300-6305.	7.1	515
6	The genome of <i>Nanoarchaeum equitans</i> : Insights into early archaeal evolution and derived parasitism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 12984-12988.	7.1	488
7	Turning renewable resources into value-added polymer: development of lignin-based thermoplastic. <i>Green Chemistry</i> , 2012, 14, 3295.	9.0	341
8	<i>Ferroglobus placidus</i> gen. nov., sp. nov., a novel hyperthermophilic archaeum that oxidizes Fe <sup>2+</sup> at neutral pH under anoxic conditions. <i>Archives of Microbiology</i> , 1996, 166, 308-314.	2.2	312
9	Tapping into microbial diversity. <i>Nature Reviews Microbiology</i> , 2004, 2, 141-150.	28.6	272
10	A korarchaeal genome reveals insights into the evolution of the Archaea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 8102-8107.	7.1	253
11	Anaerobic respiration with elemental sulfur and with disulfides. <i>FEMS Microbiology Reviews</i> , 1998, 22, 353-381.	8.6	225
12	Targeted Access to the Genomes of Low-Abundance Organisms in Complex Microbial Communities. <i>Applied and Environmental Microbiology</i> , 2007, 73, 3205-3214.	3.1	225
13	Environmental Whole-Genome Amplification To Access Microbial Populations in Contaminated Sediments. <i>Applied and Environmental Microbiology</i> , 2006, 72, 3291-3301.	3.1	213
14	Exploring Nitrilase Sequence Space for Enantioselective Catalysis. <i>Applied and Environmental Microbiology</i> , 2004, 70, 2429-2436.	3.1	212
15	Mutant alcohol dehydrogenase leads to improved ethanol tolerance in <i>Clostridium thermocellum</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 13752-13757.	7.1	159
16	Salt Stress in <i>Desulfovibrio vulgaris</i> Hildenborough: an Integrated Genomics Approach. <i>Journal of Bacteriology</i> , 2006, 188, 4068-4078.	2.2	155
17	Unusual Microbial Xylanases from Insect Guts. <i>Applied and Environmental Microbiology</i> , 2004, 70, 3609-3617.	3.1	154
18	Environmental Proteomics: a Paradigm Shift in Characterizing Microbial Activities at the Molecular Level. <i>Microbiology and Molecular Biology Reviews</i> , 2009, 73, 62-70.	6.6	111

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19	A genomic analysis of the archaeal system <i>Ignicoccus hospitalis</i> - <i>Nanoarchaeum equitans</i> . <i>Genome Biology</i> , 2008, 9, R158.	8.8	104
20	Engineered microbial systems for enhanced conversion of lignocellulosic biomass. <i>Current Opinion in Biotechnology</i> , 2010, 21, 657-662.	6.6	93
21	<i>Caldicellulosiruptor obsidiansis</i> sp. nov., an Anaerobic, Extremely Thermophilic, Cellulolytic Bacterium Isolated from Obsidian Pool, Yellowstone National Park. <i>Applied and Environmental Microbiology</i> , 2010, 76, 1014-1020.	3.1	91
22	High-Throughput Cultivation of Microorganisms Using Microcapsules. <i>Methods in Enzymology</i> , 2005, 397, 124-130.	1.0	90
23	Capturing the uncultivated majority. <i>Current Opinion in Biotechnology</i> , 2006, 17, 236-240.	6.6	88
24	Global Proteome Discovery Using an Online Three-Dimensional LC-MS/MS. <i>Journal of Proteome Research</i> , 2005, 4, 801-808.	3.7	87
25	<i>Thermococcus alcaliphilus</i> sp. nov., a new hyperthermophilic archaeum growing on polysulfide at alkaline pH. <i>Archives of Microbiology</i> , 1995, 164, 390-395.	2.2	84
26	Use of Label-Free Quantitative Proteomics To Distinguish the Secreted Cellulolytic Systems of <i>Caldicellulosiruptor bescii</i> and <i>Caldicellulosiruptor obsidiansis</i> . <i>Applied and Environmental Microbiology</i> , 2011, 77, 4042-4054.	3.1	71
27	Impact of elevated nitrate on sulfate-reducing bacteria: a comparative Study of <i>Desulfovibrio vulgaris</i> . <i>ISME Journal</i> , 2010, 4, 1386-1397.	9.8	67
28	A Novel Unsaturated Archaeal Ether Core Lipid from the Hyperthermophile <i>Methanopyrus kandleri</i> . <i>Systematic and Applied Microbiology</i> , 1993, 16, 165-169.	2.8	66
29	Proteomic Characterization of Cellular and Molecular Processes that Enable the <i>Nanoarchaeum equitans</i> - <i>Ignicoccus hospitalis</i> Relationship. <i>PLoS ONE</i> , 2011, 6, e22942.	2.5	65
30	<i>Thermococcus acidaminovorans</i> sp. nov., a new hyperthermophilic alkalophilic archaeon growing on amino acids. <i>Extremophiles</i> , 1998, 2, 109-114.	2.3	56
31	Purification and properties of an extremely thermostable membrane-bound sulfur-reducing complex from the hyperthermophilic <i>Pyrodicticum abyssi</i> . <i>FEBS Journal</i> , 1998, 252, 486-491.	0.2	45
32	Complete Genome Sequence of the Cellulolytic Thermophile <i>Caldicellulosiruptor obsidiansis</i> OB47. <i>Journal of Bacteriology</i> , 2010, 192, 6099-6100.	2.2	39
33	Heterobimetallic Zeolite, InV-ZSM-5, Enables Efficient Conversion of Biomass Derived Ethanol to Renewable Hydrocarbons. <i>Scientific Reports</i> , 2015, 5, 16039.	3.3	38
34	Lipid analysis of <i>Methanopyrus kandleri</i> . <i>FEMS Microbiology Letters</i> , 1996, 136, 199-202.	1.8	35
35	Lignin-Derived Carbon Fiber as a Co-Product of Refining Cellulosic Biomass. <i>SAE International Journal of Materials and Manufacturing</i> , 0, 7, 115-121.	0.3	34
36	Label-free Quantitative Proteomics for the Extremely Thermophilic Bacterium <i>Caldicellulosiruptor obsidiansis</i> Reveal Distinct Abundance Patterns upon Growth on Cellobiose, Crystalline Cellulose, and Switchgrass. <i>Journal of Proteome Research</i> , 2011, 10, 5302-5314.	3.7	33

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37	Draft Genome Sequences for Clostridium thermocellum Wild-Type Strain YS and Derived Cellulose Adhesion-Defective Mutant Strain AD2. Journal of Bacteriology, 2012, 194, 3290-3291.	2.2	27
38	Bioenergy research: a new paradigm in multidisciplinary research. Journal of the Royal Society Interface, 2010, 7, 1391-1401.	3.4	21
39	Community Analysis of Plant Biomass-Degrading Microorganisms from Obsidian Pool, Yellowstone National Park. Microbial Ecology, 2015, 69, 333-345.	2.8	20
40	New Methods to Access Microbial Diversity for Small Molecule Discovery. , 2005, , 275-293.		15
41	[34] Hydrogen-sulfur oxidoreductase complex from Pyrodictium abyssi. Methods in Enzymology, 2001, 331, 442-451.	1.0	8
42	The DOE BioEnergy Science Centerâ€™a U.S. Department of Energy Bioenergy Research Center. In Vitro Cellular and Developmental Biology - Plant, 2009, 45, 193-198.	2.1	8
43	Controlled microfluidic production of alginate beads for in situ encapsulation of microbes. , 2009, , .		5
44	The Goals and Research of the BioEnergy Sciences Center (BESC): Developing Cost-effective and Sustainable Means of Producing Biofuels by Overcoming Biomass Recalcitrance. Bioenergy Research, 2009, 2, 177-178.	3.9	5
45	Microbial goods from single cells and metagenomes. Current Opinion in Microbiology, 2008, 11, 195-197.	5.1	4
46	Single Cell Whole Genome Amplification of Uncultivated Organisms. Microbiology Monographs, 2009, , 241-256.	0.6	2
47	Accessing Microbial Communities Relevant to Biofuels Production. , 2014, , 565-576.		1
48	The DOE BioEnergy Science Center-A U.S. Department of Energy Bioenergys Research Center. , 2011, , 9-18.		0
49	Single-Cell Genomics. , 0, , 267-278.		0