Kevin R Sowers

List of Publications by Year
in descending order

30 papers	1,668 citations	304743 22 h-index	552781 26 g-index
63 all docs	63 docs citations	63 times ranked	1024 citing authors

#	Article	IF	Citations
1	Identification of a microorganism that links its growth to the reductive dechlorination of 2,3,5,6â€chlorobiphenyl. Environmental Microbiology, 2001, 3, 699-709.	3.8	153
2	Identification of a Bacterium That Specifically Catalyzes the Reductive Dechlorination of Polychlorinated Biphenyls with Doubly Flanked Chlorines. Applied and Environmental Microbiology, 2002, 68, 807-812.	3.1	143
3	Dehalorespiration with Polychlorinated Biphenyls by an Anaerobic Ultramicrobacterium. Applied and Environmental Microbiology, 2008, 74, 2089-2094.	3.1	136
4	Microbial Reductive Dechlorination of Aroclor 1260 in Baltimore Harbor Sediment Microcosms Is Catalyzed by Three Phylotypes within the Phylum Chloroflexi. Applied and Environmental Microbiology, 2007, 73, 3009-3018.	3.1	125
5	Enhanced Reductive Dechlorination of Polychlorinated Biphenyl Impacted Sediment by Bioaugmentation with a Dehalorespiring Bacterium. Environmental Science & Technology, 2011, 45, 8772-8779.	10.0	122
6	Sequential Reductive Dechlorination of <i>meta</i> -Chlorinated Polychlorinated Biphenyl Congeners in Sediment Microcosms by Two Different <i>Chloroflexi</i> Phylotypes. Applied and Environmental Microbiology, 2005, 71, 8085-8090.	3.1	97
7	Remediation of Polychlorinated Biphenyl Impacted Sediment by Concurrent Bioaugmentation with Anaerobic Halorespiring and Aerobic Degrading Bacteria. Environmental Science & Technology, 2013, 47, 3807-3815.	10.0	83
8	Establishment of a Polychlorinated Biphenyl-Dechlorinating Microbial Consortium, Specific for Doubly Flanked Chlorines, in a Defined, Sediment-Free Medium. Applied and Environmental Microbiology, 2000, 66, 49-53.	3.1	75
9	A PCR-based specific assay reveals a population of bacteria within the Chloroflexi associated with the reductive dehalogenation of polychlorinated biphenyls. Microbiology (United Kingdom), 2005, 151, 2039-2046.	1.8	72
10	Microbial Dechlorination of 2,3,5,6-Tetrachlorobiphenyl under Anaerobic Conditions in the Absence of Soil or Sediment. Applied and Environmental Microbiology, 1998, 64, 2966-2969.	3.1	72
11	In situ treatment of PCBs by anaerobic microbial dechlorination in aquatic sediment: are we there yet?. Current Opinion in Biotechnology, 2013, 24, 482-488.	6.6	71
12	Comparative analysis of polychlorinated biphenyl-dechlorinating communities in enrichment cultures using three different molecular screening techniques. Environmental Microbiology, 2001, 3, 710-719.	3.8	68
13	Microbial Reductive Dechlorination of Aroclor 1260 in Anaerobic Slurries of Estuarine Sediments. Applied and Environmental Microbiology, 1998, 64, 1052-1058.	3.1	53
14	A Pilot-Scale Field Study: In Situ Treatment of PCB-Impacted Sediments with Bioamended Activated Carbon. Environmental Science & Technology, 2019, 53, 2626-2634.	10.0	52
15	Siteâ€specific microbial communities in three PCBâ€impacted sediments are associated with different <i>in situ</i> dechlorinating activities. Environmental Microbiology, 2008, 10, 1296-1309.	3.8	46
16	Effects of bioaugmentation on indigenous PCB dechlorinating activity in sediment microcosms. Water Research, 2011, 45, 3899-3907.	11.3	45
17	Synthesis of Cysteinyl-tRNACysby a Genome That Lacks the Normal Cysteine-tRNA Synthetaseâ€. Biochemistry, 2000, 39, 7792-7798.	2.5	44
18	Stimulatory and Inhibitory Effects of Organohalides on the Dehalogenating Activities of PCB-Dechlorinating Bacterium <i>o</i>-17. Environmental Science & Technology, 2006, 40, 5704-5709.	10.0	36

#	Article	IF	Citations
19	Mesocosm Studies on the Efficacy of Bioamended Activated Carbon for Treating PCB-Impacted Sediment. Environmental Science & Technology, 2017, 51, 10691-10699.	10.0	29
20	Evaluation of PCB dechlorination pathways in anaerobic sediment microcosms using an anaerobic dechlorination model. Journal of Hazardous Materials, 2015, 296, 120-127.	12.4	24
21	A comparative evaluation of anaerobic dechlorination of PCB-118 and Aroclor 1254 in sediment microcosms from three PCB-impacted environments. Journal of Hazardous Materials, 2018, 341, 328-335.	12.4	24
22	Potential risk reduction of Aroclor 1254 by microbial dechlorination in anaerobic Grasse River sediment microcosms. Journal of Hazardous Materials, 2017, 321, 879-887.	12.4	22
23	Kinetics and Threshold Level of 2,3,4,5-Tetrachlorobiphenyl Dechlorination by an Organohalide Respiring Bacterium. Environmental Science & Technology, 2014, 48, 4353-4360.	10.0	21
24	Assessment of PCB contamination, the potential for in situ microbial dechlorination and natural attenuation in an urban watershed at the East Coast of the United States. Science of the Total Environment, 2019, 683, 154-165.	8.0	16
25	â€œDehalobium chlorocoerciaâ€•DF-1â€”from Discovery to Application. , 2016, , 563-586.		13
26	Kinetics of PCB Microbial Dechlorination Explained by Freely Dissolved Concentration in Sediment Microcosms. Environmental Science & Technology, 2019, 53, 7432-7441.	10.0	13
27	Colonization and growth of dehalorespiring biofilms on carbonaceous sorptive amendments. Biofouling, 2019, 35, 50-58.	2.2	7
28	Molecular Genetics of Archaea. , 0, , 463-477.		1
29	MrpA Functions in Energy Conversion during Acetate-Dependent Growth of Methanosarcina acetivorans. Journal of Bacteriology, 2014, 196, 716-716.	2.2	0
30	Response to â€œComment on â€˜A Pilot-Scale Field Study: In Situ Treatment of PCB-Impacted Sediments with Bioamended Activated Carbonâ€™â€• Environmental Science & Technology, 2019, 53, 6104-6105.	10.0	0