

# Kelvin B Gregory

## List of Publications by Year in descending order

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48  
papers

5,797  
citations

172457

29  
h-index

206112

48  
g-index

49  
all docs

49  
docs citations

49  
times ranked

6806  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transformations of Nanomaterials in the Environment. <i>Environmental Science &amp; Technology</i> , 2012, 46, 6893-6899.	10.0	967
2	Water Management Challenges Associated with the Production of Shale Gas by Hydraulic Fracturing. <i>Elements</i> , 2011, 7, 181-186.	0.5	736
3	Graphite electrodes as electron donors for anaerobic respiration. <i>Environmental Microbiology</i> , 2004, 6, 596-604.	3.8	659
4	Spatial and Temporal Correlation of Water Quality Parameters of Produced Waters from Devonian-Age Shale following Hydraulic Fracturing. <i>Environmental Science &amp; Technology</i> , 2013, 47, 2562-2569.	10.0	341
5	Adsorbed Polymer and NOM Limits Adhesion and Toxicity of Nano Scale Zerovalent Iron to <i>E. coli</i> . <i>Environmental Science &amp; Technology</i> , 2010, 44, 3462-3467.	10.0	304
6	Remediation and Recovery of Uranium from Contaminated Subsurface Environments with Electrodes. <i>Environmental Science &amp; Technology</i> , 2005, 39, 8943-8947.	10.0	303
7	Sulfidation of Silver Nanoparticles Decreases <i>Escherichia coli</i> Growth Inhibition. <i>Environmental Science &amp; Technology</i> , 2012, 46, 6992-7000.	10.0	263
8	Impact of Nanoscale Zero Valent Iron on Geochemistry and Microbial Populations in Trichloroethylene Contaminated Aquifer Materials. <i>Environmental Science &amp; Technology</i> , 2010, 44, 3474-3480.	10.0	187
9	Microbial Community Changes in Hydraulic Fracturing Fluids and Produced Water from Shale Gas Extraction. <i>Environmental Science &amp; Technology</i> , 2013, 47, 13141-13150.	10.0	149
10	Co-precipitation of Radium with Barium and Strontium Sulfate and Its Impact on the Fate of Radium during Treatment of Produced Water from Unconventional Gas Extraction. <i>Environmental Science &amp; Technology</i> , 2014, 48, 4596-4603.	10.0	148
11	Growth with high planktonic biomass in <i>Shewanella oneidensis</i> fuel cells. <i>FEMS Microbiology Letters</i> , 2008, 278, 29-35.	1.8	139
12	Abiotic Transformation of Hexahydro-1,3,5-trinitro-1,3,5-triazine by Fe <sup>0</sup> Bound to Magnetite. <i>Environmental Science &amp; Technology</i> , 2004, 38, 1408-1414.	10.0	135
13	Exploring the impact of pore size distribution on the performance of carbon electrodes for capacitive deionization. <i>Journal of Colloid and Interface Science</i> , 2014, 430, 93-99.	9.4	121
14	Microbial communities in flowback water impoundments from hydraulic fracturing for recovery of shale gas. <i>FEMS Microbiology Ecology</i> , 2013, 86, 567-580.	2.7	113
15	Regional Variation in Water-Related Impacts of Shale Gas Development and Implications for Emerging International Plays. <i>Environmental Science &amp; Technology</i> , 2014, 48, 8298-8306.	10.0	111
16	Effect of Bare and Coated Nanoscale Zerovalent Iron on <i>tceA</i> and <i>vcrA</i> Gene Expression in <i>Dehalococcoides</i> spp.. <i>Environmental Science &amp; Technology</i> , 2010, 44, 7647-7651.	10.0	91
17	Microbial Bioavailability of Covalently Bound Polymer Coatings on Model Engineered Nanomaterials. <i>Environmental Science &amp; Technology</i> , 2011, 45, 5253-5259.	10.0	84
18	Mechanistic insights into the use of oxide nanoparticles coated asymmetric electrodes for capacitive deionization. <i>Electrochimica Acta</i> , 2013, 90, 573-581.	5.2	83

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19	Effect of Applied Voltage, Initial Concentration, and Natural Organic Matter on Sequential Reduction/Oxidation of Nitrobenzene by Graphite Electrodes. <i>Environmental Science &amp; Technology</i> , 2012, 46, 6174-6181.	10.0	71
20	Impacts of Pristine and Transformed Ag and Cu Engineered Nanomaterials on Surficial Sediment Microbial Communities Appear Short-Lived. <i>Environmental Science &amp; Technology</i> , 2016, 50, 2641-2651.	10.0	63
21	Microbial electricity generation via microfluidic flow control. <i>Biotechnology and Bioengineering</i> , 2011, 108, 2061-2069.	3.3	62
22	Energy Consumption and Recovery in Capacitive Deionization Using Nanoporous Activated Carbon Electrodes. <i>Journal of the Electrochemical Society</i> , 2015, 162, E282-E288.	2.9	52
23	The Functional Potential of Microbial Communities in Hydraulic Fracturing Source Water and Produced Water from Natural Gas Extraction Characterized by Metagenomic Sequencing. <i>PLoS ONE</i> , 2014, 9, e107682.	2.5	51
24	Selective oxidation of bromide in wastewater brines from hydraulic fracturing. <i>Water Research</i> , 2013, 47, 3723-3731.	11.3	50
25	<i>In Situ</i> Measurement of CuO and Cu(OH) <sub>2</sub> Nanoparticle Dissolution Rates in Quiescent Freshwater Mesocosms. <i>Environmental Science and Technology Letters</i> , 2016, 3, 375-380.	8.7	50
26	Hexahydro-1,3,5-trinitro-1,3,5-triazine Transformation by Biologically Reduced Ferrihydrite: Evolution of Fe Mineralogy, Surface Area, and Reaction Rates. <i>Environmental Science &amp; Technology</i> , 2005, 39, 5183-5189.	10.0	45
27	Microbial Dynamics and Control in Shale Gas Production. <i>Environmental Science and Technology Letters</i> , 2014, 1, 465-473.	8.7	44
28	Biogenic Cyanide Production Promotes Dissolution of Gold Nanoparticles in Soil. <i>Environmental Science &amp; Technology</i> , 2019, 53, 1287-1295.	10.0	38
29	Guest Comment: Transformations of Nanomaterials in the Environment Focus Issue. <i>Environmental Science &amp; Technology</i> , 2012, 46, 6891-6892.	10.0	32
30	Current perspective on produced water management challenges during hydraulic fracturing for oil and gas recovery. <i>Environmental Chemistry</i> , 2015, 12, 261.	1.5	28
31	Bioaugmentation of Fe(0) for the Remediation of Chlorinated Aliphatic Hydrocarbons. <i>Environmental Engineering Science</i> , 2000, 17, 169-181.	1.6	26
32	Redox Control and Hydrogen Production in Sediment Caps Using Carbon Cloth Electrodes. <i>Environmental Science &amp; Technology</i> , 2010, 44, 8209-8215.	10.0	25
33	Microbial-Catalyzed Reductive Dechlorination of Polychlorinated Biphenyls in Hudson and Grasse River Sediment Microcosms: Determination of Dechlorination Preferences and Identification of Rare Ortho Removal Pathways. <i>Environmental Science &amp; Technology</i> , 2016, 50, 12767-12778.	10.0	25
34	Suggested Reporting Parameters for Investigations of Wastewater from Unconventional Shale Gas Extraction. <i>Environmental Science &amp; Technology</i> , 2013, 47, 13220-13221.	10.0	24
35	Changes in Carbon Electrode Morphology Affect Microbial Fuel Cell Performance with <i>Shewanella oneidensis</i> MR-1. <i>Energies</i> , 2015, 8, 1817-1829.	3.1	23
36	Comprehensive Assessment of Bacterial Communities and Analysis of PCB Congeners in PCB-Contaminated Sediment with Depth. <i>Journal of Environmental Engineering, ASCE</i> , 2012, 138, 1167-1178.	1.4	19

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37	Disruption of Autolysis in <i>Bacillus subtilis</i> using TiO <sub>2</sub> Nanoparticles. <i>Scientific Reports</i> , 2017, 7, 44308.	3.3	19
38	Reduction in sulfate inhibition of microbial dechlorination of polychlorinated biphenyls in Hudson and Grasse River sediments through fatty acid supplementation. <i>Chemosphere</i> , 2019, 233, 81-91.	8.2	19
39	Sulfide removal from livestock biogas by <i>Azospirillum</i> -like anaerobic phototrophic bacteria consortium. <i>International Biodeterioration and Biodegradation</i> , 2014, 86, 248-251.	3.9	15
40	Comparative Study of Effects of CO <sub>2</sub> Concentration and pH on Microbial Communities from a Saline Aquifer, a Depleted Oil Reservoir, and a Freshwater Aquifer. <i>Environmental Engineering Science</i> , 2016, 33, 806-816.	1.6	14
41	Photochemical transformations of thiolated polyethylene glycol coatings on gold nanoparticles. <i>Environmental Science: Nano</i> , 2016, 3, 1090-1102.	4.3	14
42	Time-dependent bacterial transcriptional response to CuO nanoparticles differs from that of Cu <sup>2+</sup> and provides insights into CuO nanoparticle toxicity mechanisms. <i>Environmental Science: Nano</i> , 2017, 4, 2321-2335.	4.3	14
43	CO <sub>2</sub> concentration and pH alters subsurface microbial ecology at reservoir temperature and pressure. <i>RSC Advances</i> , 2014, 4, 17443-17453.	3.6	12
44	Effect of CO <sub>2</sub> (aq) Exposure on a Freshwater Aquifer Microbial Community from Simulated Geologic Carbon Storage Leakage. <i>Environmental Science and Technology Letters</i> , 2014, 1, 479-483.	8.7	11
45	Quorum Sensing Signals Form Complexes with Ag <sup>+</sup> and Cu <sup>2+</sup> Cations. <i>ACS Chemical Biology</i> , 2018, 13, 894-899.	3.4	8
46	Effects of Ferric Oxyhydroxide on Anaerobic Microbial Dechlorination of Polychlorinated Biphenyls in Hudson and Grasse River Sediment Microcosms: Dechlorination Extent, Preferences, Ortho Removal, and Its Enhancement. <i>Frontiers in Microbiology</i> , 2018, 9, 1574.	3.5	6
47	Microparticle transport and concentration with surface acoustic waves. <i>Proceedings of SPIE</i> , 2013, , .	0.8	2
48	Surface acoustic wave action on microfluidic channels and microparticles. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1