## Joel G Burken

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Predictive Relationships for Uptake of Organic Contaminants by Hybrid Poplar Trees. Environmental Science & Technology, 1998, 32, 3379-3385.	4.6	493
2	Uptake and Metabolism of Atrazine by Poplar Trees. Environmental Science & Technology, 1997, 31, 1399-1406.	4.6	317
3	The Water Footprint of Biofuels: A Drink or Drive Issue?. Environmental Science & Technology, 2009, 43, 3005-3010.	4.6	316
4	Unmanned Aerial System (UAS)-based phenotyping of soybean using multi-sensor data fusion and extreme learning machine. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 134, 43-58.	4.9	233
5	Phytoremediation: Plant Uptake of Atrazine and Role of Root Exudates. Journal of Environmental Engineering, ASCE, 1996, 122, 958-963.	0.7	192
6	Phytovolatilization of Organic Contaminants. Environmental Science & Technology, 2016, 50, 6632-6643.	4.6	191
7	Machine Learning: New Ideas and Tools in Environmental Science and Engineering. Environmental Science & Technology, 2021, 55, 12741-12754.	4.6	140
8	TCE Diffusion to the Atmosphere in Phytoremediation Applications. Environmental Science & Technology, 2003, 37, 2534-2539.	4.6	123
9	Engineered Struvite Precipitation: Impacts of Component-Ion Molar Ratios and pH. Journal of Environmental Engineering, ASCE, 2005, 131, 1433-1440.	0.7	120
10	Distribution and Volatilization of Organic Compounds Following Uptake by Hybrid Poplar Trees. International Journal of Phytoremediation, 1999, 1, 139-151.	1.7	81
11	Nine-month evaluation of runoff quality and quantity from an experiential green roof in Missouri, USA. Ecological Engineering, 2015, 78, 127-133.	1.6	80
12	Enhanced Degradation of TCE on a Superfund Site Using Endophyte-Assisted Poplar Tree Phytoremediation. Environmental Science & Technology, 2017, 51, 10050-10058.	4.6	73
13	VOCs Fate and Partitioning in Vegetation:Â Use of Tree Cores in Groundwater Analysis. Environmental Science & Technology, 2002, 36, 4663-4668.	4.6	69
14	Fate and transport of per- and polyfluoroalkyl substances (PFASs) in the vadose zone. Science of the Total Environment, 2021, 771, 145427.	3.9	69
15	Phytoforensics, Dendrochemistry, and Phytoscreening: New Green Tools for Delineating Contaminants from Past and Present. Environmental Science & Technology, 2011, 45, 6218-6226.	4.6	68
16	Plant Translocation of Organic Compounds: Molecular and Physicochemical Predictors. Environmental Science and Technology Letters, 2014, 1, 156-161.	3.9	66
17	Rhizosphere Competitiveness of Trichloroethylene-Degrading, Poplar-Colonizing Recombinant Bacteria. Applied and Environmental Microbiology, 2000, 66, 4673-4678.	1.4	64
18	Uptake and transformation of trichloroethylene by edible garden plants. Water Research, 1997, 31, 816-824.	5.3	61

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19	Effect of Seeding Materials and Mixing Strength on Struvite Precipitation. Water Environment Research, 2006, 78, 125-132.	1.3	58
20	Adsorption of arsenic(V) onto fly ash: A speciation-based approach. Chemosphere, 2008, 72, 381-388.	4.2	58
21	Fast Separation and Quantification Method for Nitroguanidine and 2,4-Dinitroanisole by Ultrafast Liquid Chromatography–Tandem Mass Spectrometry. Analytical Chemistry, 2012, 84, 3427-3432.	3.2	58
22	Using Tree Core Samples to Monitor Natural Attenuation and Plume Distribution After a PCE Spill. Environmental Science & Technology, 2008, 42, 1711-1717.	4.6	57
23	Using artificial neural network to investigate physiological changes and cerium oxide nanoparticles and cadmium uptake by Brassica napus plants. Environmental Pollution, 2019, 246, 381-389.	3.7	52
24	Reducing arsenic accumulation in rice grain through iron oxide amendment. Ecotoxicology and Environmental Safety, 2015, 118, 55-61.	2.9	50
25	Filtration performances of non-medical materials as candidates for manufacturing facemasks and respirators. International Journal of Hygiene and Environmental Health, 2020, 229, 113582.	2.1	50
26	Mineralization and Uptake of Triazine Pesticide in Soilâ€Plant Systems. Journal of Environmental Engineering, ASCE, 1993, 119, 842-854.	0.7	49
27	Vapor-Phase Exchange of Perchloroethene between Soil and Plants. Environmental Science & Technology, 2005, 39, 1563-1568.	4.6	48
28	Phytotechnologies – Preventing Exposures, Improving Public Health. International Journal of Phytoremediation, 2013, 15, 889-899.	1.7	46
29	Lead and Zinc Removal by Laboratory-Scale Constructed Wetlands. Water Environment Research, 2001, 73, 37-44.	1.3	45
30	Phytoremediation of MTBE with Hybrid Poplar Trees. International Journal of Phytoremediation, 2004, 6, 157-167.	1.7	45
31	Determining Chemical Activity of (Semi)volatile Compounds by Headspace Solid-Phase Microextraction. Analytical Chemistry, 2007, 79, 2869-2876.	3.2	44
32	Phytoscreening for Chlorinated Solvents Using Rapid in Vitro SPME Sampling: Application to Urban Plume in Verl, Germany. Environmental Science & Technology, 2011, 45, 8276-8282.	4.6	41
33	Direct Measurement of VOC Diffusivities in Tree Tissues: Impacts on Tree-Based Phytoremediation and Plant Contamination. Environmental Science & amp; Technology, 2008, 42, 1268-1275.	4.6	39
34	A deeper look at plant uptake of environmental contaminants using intelligent approaches. Science of the Total Environment, 2019, 651, 561-569.	3.9	38
35	Modeling of TCE Diffusion to the Atmosphere and Distribution in Plant Stems. Environmental Science & amp; Technology, 2004, 38, 4580-4586.	4.6	36
36	Examining plant uptake and translocation of emerging contaminants using machine learning: Implications to food security. Science of the Total Environment, 2020, 698, 133999.	3.9	36

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37	Biotransformation of Various Substituted Aromatic Compounds to Chiral Dihydrodihydroxy Derivatives. Applied and Environmental Microbiology, 2001, 67, 3333-3339.	1.4	33
38	PHYTOREMEDIATION OF BTEX HYDROCARBONS: POTENTIAL IMPACTS OF DIURNAL GROUNDWATER FLUCTUATION ON MICROBIAL DEGRADATION. International Journal of Phytoremediation, 2009, 11, 509-523.	1.7	27
39	Phytomonitoring of Chlorinated Ethenes in Trees: A Four-Year Study of Seasonal Chemodynamics <i>in Planta</i> . Environmental Science & Technology, 2014, 48, 10634-10640.	4.6	26
40	Dendrochemical patterns of calcium, zinc, and potassium related to internal factors detected by energy dispersive X-ray fluorescence (EDXRF). Chemosphere, 2014, 95, 58-62.	4.2	26
41	Biological fixed-film systems. Water Environment Research, 1998, 70, 495-518.	1.3	22
42	Dendrochemistry of Multiple Releases of Chlorinated Solvents at a Former Industrial Site. Environmental Science & Technology, 2012, 46, 9541-9547.	4.6	22
43	Time-Weighted Average SPME Analysis for <i>in Planta</i> Determination of cVOCs. Environmental Science & Technology, 2012, 46, 3319-3325.	4.6	21
44	Investigating plant uptake of organic contaminants through transpiration stream concentration factor and neural network models. Science of the Total Environment, 2021, 751, 141418.	3.9	21
45	Simultaneous detection of perchlorate and bromate using rapid high-performance ion exchange chromatography–tandem mass spectrometry and perchlorate removal in drinking water. Environmental Science and Pollution Research, 2015, 22, 8594-8602.	2.7	20
46	Directional Phytoscreening: Contaminant Gradients in Trees for Plume Delineation. Environmental Science & Technology, 2013, 47, 9069-9076.	4.6	17
47	Transport and survival of GFP-tagged root-colonizing microbes: Implications for rhizodegradation. European Journal of Soil Biology, 2007, 43, 224-232.	1.4	16
48	Remote Sensing of Explosives-Induced Stress in Plants: Hyperspectral Imaging Analysis for Remote Detection of Unexploded Threats. Remote Sensing, 2019, 11, 1827.	1.8	14
49	Amendment-assisted revegetation of mine tailings: improvement of tailings quality and biomass production. International Journal of Phytoremediation, 2019, 21, 425-434.	1.7	13
50	Lignin and Lipid Impact on Sorption and Diffusion of Trichloroethylene in Tree Branches for Determining Contaminant Fate during Plant Sampling and Phytoremediation. Environmental Science & Technology, 2009, 43, 5732-5738.	4.6	11
51	Plants as Bio-Indicators of Subsurface Conditions: Impact of Groundwater Level on BTEX Concentrations in Trees. International Journal of Phytoremediation, 2013, 15, 257-267.	1.7	11
52	In planta passive sampling devices for assessing subsurface chlorinated solvents. Chemosphere, 2014, 104, 149-154.	4.2	11
53	Phytoremediation removal rates of benzene, toluene, and chlorobenzene. International Journal of Phytoremediation, 2018, 20, 666-674.	1.7	11
54	Quantification of toluene phytoextraction rates and microbial biodegradation functional profiles at a fractured bedrock phytoremediation site. Science of the Total Environment, 2020, 707, 135890	3.9	10

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55	Phytoscreening with SPME: Variability Analysis. International Journal of Phytoremediation, 2015, 17, 1115-1122.	1.7	8
56	Tree Sampling as a Method to Assess Vapor Intrusion Potential at a Site Characterized by VOC-Contaminated Groundwater and Soil. Environmental Science & Technology, 2017, 51, 10369-10378.	4.6	8
57	Establishment of Regional Phytoremediation Buffer Systems for Ecological Restoration in the Great Lakes Basin, USA. II. New Clones Show Exceptional Promise. Forests, 2021, 12, 474.	0.9	8
58	Plants as Bio-Indicators of Subsurface Conditions: Impact of Groundwater Level on Btex Concentrations in Trees. International Journal of Phytoremediation, 2013, 15, 900-910.	1.7	7
59	Phytoscreening: A Comparison of In Planta Portable <scp>GCâ€MS</scp> and In Vitro Analyses. Ground Water Monitoring and Remediation, 2014, 34, 49-56.	0.6	7
60	Determining the effectiveness of soil treatment on plant stress using smart-phone cameras. , 2016, , .		7
61	Establishment of Regional Phytoremediation Buffer Systems for Ecological Restoration in the Great Lakes Basin, USA. I. Genotype × Environment Interactions. Forests, 2021, 12, 430.	0.9	7
62	Natural treatment and on-site processes. Water Environment Research, 1998, 70, 540-550.	1.3	6
63	Benzene Toxicity and Removal in Laboratory Phytoremediation Studies. Practice Periodical of Hazardous, Toxic and Radioactive Waste Management, 2001, 5, 161-171.	0.4	6
64	Phytoremediation of Volatile Organic Compounds. , 2006, , 199-216.		6
65	Waterjet injection of powdered activated carbon for sediment remediation. Journal of Soils and Sediments, 2011, 11, 1115-1124.	1.5	6
66	Special issue on the 6th International Phytotechnologies Conference, St. Louis, Missouri, 2009: Conference Review. International Journal of Phytoremediation, 2011, 13, 1-3.	1.7	6
67	Plant tissue analysis for explosive compounds in phytoremediation and phytoforensics. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2012, 47, 2219-2229.	0.9	6
68	Using in situ solid phase microextraction (SPME) for depth profiling in sediments treated with activated carbon. Journal of Soils and Sediments, 2014, 14, 1013-1020.	1.5	6
69	Green Analysis: High Throughput Analysis of Emerging Pollutants in Plant Sap by Freeze–Thaw–Centrifugal Membrane Filtration Sample Preparation—HPLC-MS/MS Analysis. Journal of Agricultural and Food Chemistry, 2019, 67, 12927-12935.	2.4	6
70	Dendrochemical forensics as material evidence in courts: <i>How could trees lie?</i> . Environmental Forensics, 2023, 24, 21-27.	1.3	6
71	High throughput screening of native species for tailings eco-restoration using novel computer visualization for plant phenotyping. Science of the Total Environment, 2021, 780, 146490.	3.9	6
72	Natural Treatment and On-Site Processes. Water Environment Research, 1999, 71, 676-685.	1.3	5

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73	Phytoscreening for perchlorate: rapid analysis of tree sap. Environmental Science: Water Research and Technology, 2015, 1, 138-145.	1.2	5
74	Green Analysis: Rapid-Throughput Analysis of Volatile Contaminants in Plants by Freeze–Thaw–Equilibration Sample Preparation and SPME–GC-MS Analysis. Journal of Agricultural and Food Chemistry, 2021, 69, 5428-5434.	2.4	5
75	Phytomanagement of Pb/Zn/Cu tailings using biosolids-biochar or -humus combinations: Enhancement of bioenergy crop production, substrate functionality, and ecosystem services. Science of the Total Environment, 2022, 836, 155676.	3.9	5
76	Taprootâ,,¢ technology: Tree coring for fast, noninvasive plume delineations. Remediation, 2009, 19, 49-62.	1.1	4
77	Phytoforensics: Trees as bioindicators of potential indoor exposure via vapor intrusion. PLoS ONE, 2018, 13, e0193247.	1.1	4
78	Letter: Clarifying phytoremediation data. Environmental Science & amp; Technology, 2003, 37, 310A-310A.	4.6	3
79	Contaminant Gradients in Trees: Directional Tree Coring Reveals Boundaries of Soil and Soil-Gas Contamination with Potential Applications in Vapor Intrusion Assessment. Environmental Science & Technology, 2017, 51, 14055-14064.	4.6	3
80	Phytoremediation and Plant Metabolism of Explosives and Nitroaromatic Compounds. , 2000, , .		3
81	Today's Phytoremediation: Success Had Led to Growth. International Journal of Phytoremediation, 1999, 1, 111-113.	1.7	2
82	Development of a waterjet system for direct delivery of granular iron and activated carbon to remediate contaminated aqueous sediments. Remediation, 2011, 21, 103-119.	1.1	2
83	Distribution and Accumulation of Trichloroethylene and Trichloroacetic Acid in Hybrid Poplars. Journal of Environmental Engineering, ASCE, 2013, 139, 1162-1167.	0.7	2
84	Persistence and Microbial Source Tracking of <i>Escherichia coli</i> at a Swimming Beach at Lake of the Ozarks State Park, Missouri. Journal of the American Water Resources Association, 2016, 52, 508-522.	1.0	2
85	Natural Treatment and On-Site Processes. Water Environment Research, 2001, 73, 596-626.	1.3	1
86	Volatile organic compound fate in phytoremediation applications: natural and engineered systems. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2005, 60, 208-15.	0.6	1
87	Degradation and Uptake of Benzene in Laboratory Phytoremediation Studies. , 2000, , 476.		0
88	Use of In-Planta Solid Phase Sampling Devices to Delineate VOC Plumes. , 2009, , .		0
89	CONFERENCE REVIEW—4TH INTERNATIONAL PHYTOTECHNOLOGIES CONFERENCE, DENVER, CO, SEPTEMBER 24–26, 2007. International Journal of Phytoremediation, 2009, 11, 413-415.	1.7	0
90	Special Section on Natural Treatment Systems: More Than Just a Solution to Pollution. Journal of Environmental Engineering, ASCE, 2013, 139, 461-461.	0.7	0

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91	Resid Conversion. , 2005, , 2655-2662.		0