Thomas C Harmon

List of Publications by Year
in descending order

50 papers	1,049 citations	471509 17 h-index	434195 31 g-index
51 all docs	51 docs citations	51 times ranked	1344 citing authors

#	Article	IF	Citations
1	Environmental sensor networks in ecological research. New Phytologist, 2009, 182, 589-607.	7.3	146
2	Nonaqueous Phase Liquid Dissolution in Porous Media: Current State of Knowledge and Research Needs. Transport in Porous Media, 2000, 38, 3-28.	2.6	77
3	Comparison of Intraparticle Sorption and Desorption Rates for a Halogenated Alkene in a Sandy Aquifer Material. Environmental Science & Technology, 1994, 28, 1650-1660.	10.0	72
4	Welcome to the Atta world: A framework for understanding the effects of leafâ€cutter ants on ecosystem functions. Functional Ecology, 2019, 33, 1386-1399.	3.6	61
5	Soil Sensor Technology: Life within a Pixel. BioScience, 2007, 57, 859-867.	4.9	53
6	A Sensitive Nitrate Ion-Selective Electrode from a Pencil Lead. An Analytical Laboratory Experiment. Journal of Chemical Education, 2005, 82, 439.	2.3	51
7	Dissolution of a well-defined trichloroethylene pool in saturated porous media: Experimental design and aquifer characterization. Water Resources Research, 2000, 36, 1687-1696.	4.2	45
8	Experimental design and model parameter estimation for locating a dissolving dense nonaqueous phase liquid pool in groundwater. Water Resources Research, 2002, 38, 15-1-15-9.	4.2	41
9	A Receding Horizon Control algorithm for adaptive management of soil moisture and chemical levels during irrigation. Environmental Modelling and Software, 2009, 24, 1112-1121.	4.5	34
10	Inverse modeling for locating dense nonaqueous pools in groundwater under steady flow conditions. Water Resources Research, 2000, 36, 1723-1735.	4.2	33
11	Long-lived solid state perchlorate ion selective sensor based on doped poly(3,4-ethylenedioxythiophene) (PEDOT) films. Analytica Chimica Acta, 2005, 551, 30-36.	5.4	31
12	Hydrogeologic influence on changes in snowmelt runoff with climate warming: Numerical experiments on a mid-elevation catchment in the Sierra Nevada, USA. Journal of Hydrology, 2016, 533, 332-342.	5.4	31
13	Cannabis and the Environment: What Science Tells Us and What We Still Need to Know. Environmental Science and Technology Letters, 2021, 8, 98-107.	8.7	28
14	High-Resolution River Hydraulic and Water Quality Characterization Using Rapidly Deployable Networked Infomechanical Systems (NIMS RD). Environmental Engineering Science, 2007, 24, 151-159.	1.6	26
15	Measuring and modeling the dissolution of nonideally shaped dense nonaqueous phase liquid pools in saturated porous media. Water Resources Research, 2002, 38, 8-1-8-14.	4.2	19
16	The Effect of Soil Type on the Electrodialytic Remediation of Lead-Contaminated Soil. Environmental Engineering Science, 2007, 24, 234-244.	1.6	18
17	A parylene-protected nitrate selective microsensor on a carbon fiber cross section. Sensors and Actuators B: Chemical, 2007, 123, 127-134.	7.8	17
18	The Role of the Ecosystem Engineer, the Leafâ€Cutter Ant <scp>Atta cephalotes</scp>, on Soil CO₂ Dynamics in a Wet Tropical Rainforest. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 260-273.	3.0	17

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19	Volatilization of Solid-Phase Polycyclic Aromatic Hydrocarbons from Model Mixtures and Lampblack-Contaminated Soils. Journal of Chemical & Engineering Data, 2001, 46, 944-949.	1.9	15
20	Integration of Swimming-Related Synaptic Excitation and Inhibition by olig2⁺Eurydendroid Neurons in Larval Zebrafish Cerebellum. Journal of Neuroscience, 2020, 40, 3063-3074.	3.6	15
21	Aqueous Solubility Depression for Hydrophobic Organic Chemicals in the Presence of Partially Miscible Organic Solvents. Environmental Science & Technology, 1997, 31, 384-389.	10.0	14
22	Autonomous Robotic Sensing Experiments at San Joaquin River. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	14
23	Lowâ€cost soil <scp>CO</scp>₂ efflux and point concentration sensing systems for terrestrial ecology applications. Methods in Ecology and Evolution, 2015, 6, 1358-1362.	5.2	13
24	An Interactive Database Supporting Virtual Fieldwork in an Environmental Engineering Design Project. Journal of Engineering Education, 2002, 91, 167-176.	3.0	12
25	Watershed model calibration to the base flow recession curve with and without evapotranspiration effects. Water Resources Research, 2016, 52, 2919-2933.	4.2	12
26	Water residence time (age) and flow path exert synchronous effects on annual characteristics of dissolved organic carbon in terrestrial runoff. Science of the Total Environment, 2019, 656, 1223-1237.	8.0	11
27	Precipitationâ€drainage cycles lead to hot moments in soil carbon dioxide dynamics in a Neotropical wet forest. Global Change Biology, 2020, 26, 5303-5319.	9.5	11
28	Diel pattern driven by free convection controls leaf-cutter ant nest ventilation and greenhouse gas emissions in a Neotropical rain forest. Oecologia, 2020, 192, 591-601.	2.0	11
29	The effect of equilibration time on desorption rate measurements with chlorinated alkenes and aquifer particles. Environmental Progress, 1994, 13, 1-8.	0.7	10
30	The effect of multicomponent diffusion on NAPL dissolution from spherical ternary mixtures. Journal of Contaminant Hydrology, 2003, 67, 43-60.	3.3	10
31	ENSOâ€influenced Drought Drives Methane Flux Dynamics in a Tropical Wet Forest Soil. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 2267-2276.	3.0	10
32	Visual cortical contributions to associative cerebellar learning. Neurobiology of Learning and Memory, 2013, 104, 103-109.	1.9	9
33	Effects of Nonvolatile Organic Contamination on the Surface Areas and Adsorption Energetics of Porous Media. Langmuir, 2000, 16, 9819-9824.	3.5	8
34	High Resolution Synoptic Salinity Mapping To Identify Groundwaterâ€“Surface Water Discharges in Lowland Rivers. Environmental Science & Technology, 2015, 49, 4842-4850.	10.0	8
35	Carbon gas flux to and from inland waters: support for a global observation network. Limnology, 2020, 21, 429-442.	1.5	7
36	Developmental Changes in Hippocampal CA1 Single Neuron Firing and Theta Activity during Associative Learning. PLoS ONE, 2016, 11, e0164781.	2.5	7

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37	Transverse spatiotemporal variability of lowland river properties and effects on metabolic rate estimates. Water Resources Research, 2014, 50, 482-493.	4.2	6
38	Synoptic Sampling to Determine Distributed Groundwaterâ€Surface Water Nitrate Loading and Removal Potential Along a Lowland River. Water Resources Research, 2017, 53, 9479-9495.	4.2	6
39	Engaging stakeholders across a socio-environmentally diverse network of water research sites in North and South America. Environmental Development, 2021, 38, 100582.	4.1	6
40	Analyzing the Suitability of Remotely Sensed ET for Calibrating a Watershed Model of a Mediterranean Montane Forest. Remote Sensing, 2021, 13, 1258.	4.0	6
41	Correlation between soil apparent electroconductivity and plant hyperspectral reflectance in a managed wetland. International Journal of Remote Sensing, 2011, 32, 2563-2579.	2.9	5
42	Determining and Modeling Mass-Transfer Rate Limitations in Heterogeneous Aquifers. Water Science and Technology, 1992, 26, 71-77.	2.5	4
43	Mapping swamp timothy (Crypsis schoenoides) seed productivity using spectral values and vegetation indices in managed wetlands. International Journal of Remote Sensing, 2012, 33, 4902-4918.	2.9	4
44	Socioeconomic and Environmental Proxies for Comparing Freshwater Ecosystem Service Threats across International Sites: A Diagnostic Approach. Water (Switzerland), 2018, 10, 1578.	2.7	4
45	Estimating internal mass transfer rates in soils using scintillation fluid extraction. Separation and Purification Technology, 1996, 6, 155-164.	0.7	3
46	Autonomous real-time adaptive management of soil salinity using a receding horizon control algorithm: A pilot-scale demonstration. Journal of Environmental Management, 2011, 92, 2619-2627.	7.8	3
47	Seasonal ammonia losses from spray-irrigation with secondary-treated recycled water. Water Science and Technology, 2012, 65, 676-682.	2.5	2
48	Ontogeny of septohippocampal modulation of delay eyeblink conditioning. Developmental Psychobiology, 2015, 57, 168-176.	1.6	2
49	Longâ€Term Studies on the Effects of Nonvolatile Organic Compounds on Porous Media Surface Areas. Journal of Environmental Quality, 2002, 31, 1309-1315.	2.0	1
50	Response to Comment on â€œCannabis and the Environment: What Science Tells Us and What We Still Need to Knowâ€• Environmental Science and Technology Letters, 2021, 8, 486-486.	8.7	0