

# Neil R Thomson

## List of Publications by Year in descending order

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33  
papers

617  
citations

567144

15  
h-index

610775

24  
g-index

33  
all docs

33  
docs citations

33  
times ranked

735  
citing authors

#	ARTICLE	IF	CITATIONS
1	Treatment of Organic Compounds by Activated Persulfate Using Nanoscale Zerovalent Iron. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 13564-13571.	1.8	162
2	Reducing the computational cost of automatic calibration through model preemption. <i>Water Resources Research</i> , 2010, 46, .	1.7	38
3	Carbon isotope fractionation of 1,1,1-trichloroethane during base-catalyzed persulfate treatment. <i>Journal of Hazardous Materials</i> , 2013, 260, 61-66.	6.5	30
4	Permanganate Treatment of an Emplaced DNAPL Source. <i>Ground Water Monitoring and Remediation</i> , 2007, 27, 74-85.	0.6	29
5	Persulfate injection into a gasoline source zone. <i>Journal of Contaminant Hydrology</i> , 2013, 150, 35-44.	1.6	28
6	Estimation of the Maximum Consumption of Permanganate by Aquifer Solids Using a Modified Chemical Oxygen Demand Test. <i>Journal of Environmental Engineering, ASCE</i> , 2008, 134, 353-361.	0.7	27
7	Persulfate Treatment of Dissolved Gasoline Compounds. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2013, 17, 9-15.	1.2	26
8	Field Trials of Chaotic Advection to Enhance Reagent Delivery. <i>Ground Water Monitoring and Remediation</i> , 2019, 39, 23-39.	0.6	22
9	Quantitative global sensitivity analysis of the RZWQM to warrant a robust and effective calibration. <i>Journal of Hydrology</i> , 2014, 511, 567-579.	2.3	21
10	Natural Persulfate Activation for Anthracene Remediation in Tropical Environments. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	1.1	21
11	Infiltration of Sulfate to Enhance Sulfate-Reducing Biodegradation of Petroleum Hydrocarbons. <i>Ground Water Monitoring and Remediation</i> , 2018, 38, 73-87.	0.6	21
12	Sensing Coated Iron-Oxide Nanoparticles with Spectral Induced Polarization (SIP): Experiments in Natural Sand Packed Flow-Through Columns. <i>Environmental Science &amp; Technology</i> , 2018, 52, 14256-14265.	4.6	19
13	Hydrogen Peroxide Persistence in the Presence of Aquifer Materials. <i>Soil and Sediment Contamination</i> , 2010, 19, 602-616.	1.1	17
14	Integrated Plume Treatment Using Persulfate Coupled with Microbial Sulfate Reduction. <i>Ground Water Monitoring and Remediation</i> , 2018, 38, 45-61.	0.6	17
15	Targeted nanoparticle binding & detection in petroleum hydrocarbon impacted porous media. <i>Chemosphere</i> , 2019, 215, 353-361.	4.2	16
16	Environmental Applications of Nanotechnology: Nano-enabled Remediation Processes in Water, Soil and Air Treatment. <i>Water, Air, and Soil Pollution</i> , 2021, 232, 1.	1.1	14
17	Persulfate Interaction with Tropical Soils. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	1.1	13
18	Treatment of a Trichloroethylene Source Zone using Persulfate Activated by an Emplaced Nano-Pd@FeO Zone. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	1.1	12

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19	Carbon and Hydrogen Isotope Fractionation of Benzene, Toluene, and Xylene during Chemical Oxidation by Persulfate. <i>Ground Water Monitoring and Remediation</i> , 2018, 38, 62-72.	0.6	10
20	Surfactant Foam Selection for Enhanced Light Non-Aqueous Phase Liquids (LNAPL) Recovery in Contaminated Aquifers. <i>Transport in Porous Media</i> , 2020, 131, 65-84.	1.2	10
21	Factors affecting pluronic-coated iron oxide nanoparticle binding to petroleum hydrocarbon-impacted sediments. <i>Chemosphere</i> , 2020, 254, 126732.	4.2	10
22	Influence of Pluronic coating formulation on iron oxide nanoparticle transport in natural and oil-impacted sandy aquifer media. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 642-649.	0.9	9
23	The role of intra-NAPL diffusion on mass transfer from MGP residuals. <i>Journal of Contaminant Hydrology</i> , 2018, 213, 49-61.	1.6	7
24	Realistic expectations for the treatment of FMGP residuals by chemical oxidants. <i>Journal of Contaminant Hydrology</i> , 2018, 219, 1-17.	1.6	6
25	Intra-NAPL diffusion and dissolution of a MGP NAPL exposed to persulfate in a flow-through system. <i>Journal of Hazardous Materials</i> , 2019, 365, 366-374.	6.5	6
26	Use of steady-state hydraulic tomography to inform the selection of a chaotic advection system. <i>Journal of Contaminant Hydrology</i> , 2020, 229, 103559.	1.6	6
27	Spatiotemporal geo-electrical sensing of a Pluronic-coated cobalt ferrite nanoparticle slug in natural sand flow-through columns. <i>Science of the Total Environment</i> , 2021, 769, 144522.	3.9	5
28	Response of sulfate-reducing bacteria and supporting microbial community to persulfate exposure in a continuous flow system. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 1193-1203.	1.7	4
29	Evaluation of nutrient beneficial management practices on nitrate loading to groundwater in a Southern Ontario agricultural landscape. <i>Canadian Water Resources Journal</i> , 2020, 45, 90-107.	0.5	4
30	Laboratory Experiments to Evaluate the Effectiveness of Persulfate to Oxidize BTEX in Saline Environment and at Elevated Temperature Using Stable Isotopes. <i>Hydrology</i> , 2021, 8, 139.	1.3	2
31	Evidence of precipitate formation and byproduct transfer to nonaqueous phase liquids as a result of persulfate exposure. <i>Remediation</i> , 2022, 32, 211-219.	1.1	2
32	Transport and targeted binding of Pluronic-coated nanoparticles in unsaturated porous media. <i>Journal of Contaminant Hydrology</i> , 2022, 249, 104046.	1.6	2
33	Simple Resistivity Probe System for Real-Time Monitoring of Injected Reagents. <i>Ground Water Monitoring and Remediation</i> , 2020, 40, 54-66.	0.6	1