

# T Prabhakar Clement

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

2,940  
citations

201674

27  
h-index

168389

53  
g-index

72  
all docs

72  
docs citations

72  
times ranked

2917  
citing authors

#	ARTICLE	IF	CITATIONS
1	A modified Langmuir-Freundlich isotherm model for simulating pH-dependent adsorption effects. <i>Journal of Contaminant Hydrology</i> , 2012, 129-130, 46-53.	3.3	353
2	Does sea-level rise have an impact on saltwater intrusion?. <i>Advances in Water Resources</i> , 2011, 34, 1283-1291.	3.8	191
3	Laboratory-scale investigation of saltwater intrusion dynamics. <i>Water Resources Research</i> , 2007, 43, .	4.2	178
4	Improving the worthiness of the Henry problem as a benchmark for density-dependent groundwater flow models. <i>Water Resources Research</i> , 2004, 40, .	4.2	121
5	Impacts of the 2004 tsunami on groundwater resources in Sri Lanka. <i>Water Resources Research</i> , 2006, 42, .	4.2	115
6	Natural Attenuation of BTEX Compounds: Model Development and Field-Scale Application. <i>Ground Water</i> , 1999, 37, 707-717.	1.3	112
7	Generalized solution to multispecies transport equations coupled with a first-order reaction network. <i>Water Resources Research</i> , 2001, 37, 157-163.	4.2	103
8	Authorship Matrix: A Rational Approach to Quantify Individual Contributions and Responsibilities in Multi-Author Scientific Articles. <i>Science and Engineering Ethics</i> , 2014, 20, 345-361.	2.9	99
9	Long-term monitoring data to describe the fate of polycyclic aromatic hydrocarbons in Deepwater Horizon oil submerged off Alabama's beaches. <i>Science of the Total Environment</i> , 2015, 508, 46-56.	8.0	97
10	Nitrogen transformation and transport modeling in groundwater aquifers. <i>Ecological Modelling</i> , 2006, 192, 143-159.	2.5	96
11	Chemical fingerprinting of petroleum biomarkers in Deepwater Horizon oil spill samples collected from Alabama shoreline. <i>Marine Pollution Bulletin</i> , 2013, 70, 147-154.	5.0	93
12	Environmental impacts of the Chennai oil spill accident – A case study. <i>Science of the Total Environment</i> , 2018, 626, 795-806.	8.0	87
13	Crop Residue-Derived Char Influences Sorption, Desorption and Bioavailability of Atrazine in Soils. <i>Soil Science Society of America Journal</i> , 2009, 73, 967-974.	2.2	84
14	Experimental and numerical investigation of saltwater intrusion dynamics in flux-controlled groundwater systems. <i>Water Resources Research</i> , 2012, 48, .	4.2	83
15	Analytical solutions for sequentially coupled one-dimensional reactive transport problems – Part I: Mathematical derivations. <i>Advances in Water Resources</i> , 2008, 31, 203-218.	3.8	76
16	A case study for demonstrating the application of U.S. EPA's monitored natural attenuation screening protocol at a hazardous waste site. <i>Journal of Contaminant Hydrology</i> , 2002, 59, 133-162.	3.3	75
17	A novel approach for characterizing the mixing zone of a saltwater wedge. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	75
18	Laboratory and numerical investigation of transport processes occurring above and within a saltwater wedge. <i>Journal of Contaminant Hydrology</i> , 2013, 147, 14-24.	3.3	68

#	ARTICLE	IF	CITATIONS
19	Formation, Fate, and Impacts of Microscopic and Macroscopic Oilâ€‘Sediment Residues in Nearshore Marine Environments: A Critical Review. <i>Reviews of Geophysics</i> , 2017, 55, 1130-1157.	23.0	58
20	Evaluation of differential cytotoxic effects of the oil spill dispersant Corexit 9500. <i>Life Sciences</i> , 2014, 95, 108-117.	4.3	53
21	A Decomposition Method for Solving Coupled Multiâ€‘Species Reactive Transport Problems. <i>Transport in Porous Media</i> , 1999, 37, 327-346.	2.6	51
22	A kinetic approach for simulating redoxâ€‘controlled fringe and core biodegradation processes in groundwater: model development and application to a landfill site in Piedmont, Italy. <i>Hydrological Processes</i> , 2008, 22, 4905-4921.	2.6	42
23	Fate of Deepwater Horizon oil in Alabamaâ€™s beach system: Understanding physical evolution processes based on observational data. <i>Marine Pollution Bulletin</i> , 2015, 90, 95-105.	5.0	39
24	How long does it take for aquifer recharge or aquifer discharge processes to reach steady state?. <i>Journal of Hydrology</i> , 2013, 501, 241-248.	5.4	38
25	Weathering patterns of polycyclic aromatic hydrocarbons contained in submerged Deepwater Horizon oil spill residues when re-exposed to sunlight. <i>Science of the Total Environment</i> , 2016, 573, 189-202.	8.0	37
26	Complexities in Hindcasting Models-When Should We Say Enough Is Enough?. <i>Ground Water</i> , 2011, 49, 620-629.	1.3	33
27	Mathematical model for predicting microbial reduction and transport of arsenic in groundwater systems. <i>Water Research</i> , 2007, 41, 2079-2088.	11.3	28
28	Development of a scalable model for predicting arsenic transport coupled with oxidation and adsorption reactions. <i>Journal of Contaminant Hydrology</i> , 2008, 95, 30-41.	3.3	23
29	BPâ€™s Operation Deep Cleanâ€™ Could Dilution be the Solution to Beach Pollution?. <i>Environmental Science &amp; Technology</i> , 2011, 45, 4201-4202.	10.0	23
30	Impact of seasonal variations in hydrological stresses and spatial variations in geologic conditions on a TCE plume at an industrial complex in Wonju, Korea. <i>Hydrological Processes</i> , 2012, 26, 317-325.	2.6	22
31	A Tale of Two Recent Spillsâ€™ Comparison of 2014 Galveston Bay and 2010 Deepwater Horizon Oil Spill Residues. <i>PLoS ONE</i> , 2015, 10, e0118098.	2.5	22
32	Theoretical Solid/Solution Ratio Effects on Adsorption and Transport: Uranium(VI) and Carbonate. <i>Soil Science Society of America Journal</i> , 2007, 71, 329-335.	2.2	21
33	Effects of weathering on the dispersion of crude oil through oil-mineral aggregation. <i>Science of the Total Environment</i> , 2017, 587-588, 36-46.	8.0	21
34	Impacts of Climate Change and Urbanization on Groundwater Resources in a Barrier Island. <i>Journal of Environmental Engineering, ASCE</i> , 2016, 142, .	1.4	19
35	Environmental fate of petroleum biomarkers in Deepwater Horizon oil spill residues over the past 10 years. <i>Science of the Total Environment</i> , 2021, 791, 148056.	8.0	19
36	Development and application of an analytical method using gas chromatography/triple quadrupole mass spectrometry for characterizing alkylated chrysenes in crude oil samples. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 948-956.	1.5	18

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37	Understanding the Changes in Hydraulic Conductivity Values of Coarse- and Fine-Grained Porous Media Mixtures. <i>Water (Switzerland)</i> , 2018, 10, 313.	2.7	18
38	Field and laboratory investigation of taromat deposits found on Ras Rakan Island and northern beaches of Qatar. <i>Science of the Total Environment</i> , 2020, 735, 139516.	8.0	17
39	Scaling of adsorption reactions: U(VI) experiments and modeling. <i>Applied Geochemistry</i> , 2009, 24, 2051-2060.	3.0	16
40	Investigation of transient freshwater storage in island aquifers. <i>Journal of Contaminant Hydrology</i> , 2019, 221, 98-107.	3.3	14
41	Laboratory and Numerical Investigation of Saltwater Intrusion Processes in a Circular Island Aquifer. <i>Water Resources Research</i> , 2020, 56, e2019WR025325.	4.2	14
42	Comparison of Numerical Techniques Used for Simulating Variable-Density Flow and Transport Experiments. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012, 17, 272-282.	1.9	13
43	Evaluation of behavioral parameters, hematological markers, liver and kidney functions in rodents exposed to Deepwater Horizon crude oil and Corexit. <i>Life Sciences</i> , 2018, 199, 34-40.	4.3	12
44	Development of a field testing protocol for identifying Deepwater Horizon oil spill residues trapped near Gulf of Mexico beaches. <i>PLoS ONE</i> , 2018, 13, e0190508.	2.5	12
45	An analytical framework for quantifying aquifer response time scales associated with transient boundary conditions. <i>Journal of Hydrology</i> , 2014, 519, 1642-1648.	5.4	11
46	A Three-Dimensional Analytical Tool for Modeling Reactive Transport. <i>Ground Water</i> , 2006, 44, 613-617.	1.3	10
47	A Scalable Surface Complexation Modeling Framework for Predicting Arsenate Adsorption on Goethite-Coated Sands. <i>Environmental Engineering Science</i> , 2010, 27, 147-158.	1.6	10
48	Fate of hopane biomarkers during in-situ burning of crude oil – A laboratory-scale study. <i>Marine Pollution Bulletin</i> , 2018, 133, 756-761.	5.0	10
49	Evaluating the neurotoxic effects of Deepwater Horizon oil spill residues trapped along Alabama's beaches. <i>Life Sciences</i> , 2016, 155, 161-166.	4.3	9
50	Understanding the thermal degradation patterns of hopane biomarker compounds present in crude oil. <i>Science of the Total Environment</i> , 2019, 667, 792-798.	8.0	9
51	Estimating Errors in Concentration Measurements Obtained from Image Analysis. <i>Vadose Zone Journal</i> , 2009, 8, 108-118.	2.2	8
52	Spatial analysis of aquifer response times for radial flow processes: Nondimensional analysis and laboratory-scale tests. <i>Journal of Hydrology</i> , 2016, 532, 1-8.	5.4	8
53	Understanding time scales of diffusive fluxes and the implication for steady state and steady shape conditions. <i>Geophysical Research Letters</i> , 2017, 44, 174-180.	4.0	8
54	Understanding the relative performance of SCAN, SIM, PMRM and MRM methods for quantifying polycyclic aromatic hydrocarbons in crude oil samples. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8765.	1.5	7

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55	Development of Silt Fence Tieback Design Methodology for Highway Construction Installations. Transportation Research Record, 2007, 2011, 21-28.	1.9	6
56	A perspective on the state of Deepwater Horizon oil spill related tarball contamination and its impacts on Alabama beaches. Current Opinion in Chemical Engineering, 2022, 36, 100799.	7.8	6
57	Characterisation of the hydrogeology of the Augustus River catchment, Western Australia. Hydrogeology Journal, 2004, 12, 209.	2.1	5
58	Using Parallel Genetic Algorithms for Estimating Model Parameters in Complex Reactive Transport Problems. Processes, 2019, 7, 640.	2.8	5
59	PySWR- A Python code for fitting soil water retention functions. Computers and Geosciences, 2021, 156, 104897.	4.2	4
60	A deterministic approach to evaluate and implement monitored natural attenuation for chlorinated solvents. Remediation, 2007, 17, 23-40.	2.4	3
61	Who Are Coauthors and What Should Be Their Responsibilities?. Environmental Science & Technology, 2015, 49, 3265-3266.	10.0	3
62	Performance evaluation of inertial pumps used for sampling groundwater from small-diameter wells. Environmental Earth Sciences, 2016, 75, 1.	2.7	3
63	A Comprehensive Performance Assessment of the Modified Philip-Dunne Infiltrometer. Water (Switzerland), 2019, 11, 1881.	2.7	3
64	PyTheisâ€”A Python Tool for Analyzing Pump Test Data. Water (Switzerland), 2021, 13, 2180.	2.7	3
65	Remediation of groundwater and soil environments: an emerging field of research in Korea. Geosciences Journal, 2007, 11, 93-94.	1.2	2
66	Benchmarking a Visual-Basic based multi-component one-dimensional reactive transport modeling tool. Computers and Geosciences, 2013, 50, 72-83.	4.2	2
67	A<sc>uthor's</sc> R<sc>eply</sc>. Ground Water, 2012, 50, 16-18.	1.3	0
68	Perspectives on Modeling Saltwater Intrusion Processes in Coastal Groundwater Aquifers. , 2018, , 73-109.		0
69	Characterization of Tar Balls Found along Alabama's Beaches 10 Years after the Deepwater Horizon Oil Spill. International Oil Spill Conference Proceedings, 2021, 2021, ,	0.1	0
70	A simple method for correcting the effects of initial soil moisture on Modified Philip-Dunne Infiltrometer drawdown curves. Groundwater for Sustainable Development, 2022, 18, 100775.	4.6	0