

David C Mays

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,154
citations

623734

14
h-index

434195

31
g-index

38
all docs

38
docs citations

38
times ranked

1252
citing authors

#	ARTICLE	IF	CITATIONS
1	Changes in permeability caused by transient stresses: Field observations, experiments, and mechanisms. <i>Reviews of Geophysics</i> , 2012, 50, .	23.0	340
2	Hydrodynamic Aspects of Particle Clogging in Porous Media. <i>Environmental Science & Technology</i> , 2005, 39, 577-584.	10.0	169
3	Zinc Leaching from Tire Crumb Rubber. <i>Environmental Science & Technology</i> , 2012, 46, 12856-12863.	10.0	108
4	Infiltration and Clogging by Sand and Clay in a Pervious Concrete Pavement System. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012, 17, 68-73.	1.9	89
5	Hydrodynamic and Chemical Factors in Clogging by Montmorillonite in Porous Media. <i>Environmental Science & Technology</i> , 2007, 41, 5666-5671.	10.0	62
6	Plume spreading in groundwater by stretching and folding. <i>Water Resources Research</i> , 2012, 48, .	4.2	53
7	Engineered injection and extraction to enhance reaction for improved in situ remediation. <i>Water Resources Research</i> , 2013, 49, 3618-3625.	4.2	46
8	Information entropy to measure temporal and spatial complexity of unsaturated flow in heterogeneous media. <i>Water Resources Research</i> , 2002, 38, 49-1-49-11.	4.2	39
9	Chaotic advection and reaction during engineered injection and extraction in heterogeneous porous media. <i>Water Resources Research</i> , 2014, 50, 1433-1447.	4.2	39
10	Contrasting Clogging in Granular Media Filters, Soils, and Dead-End Membranes. <i>Journal of Environmental Engineering, ASCE</i> , 2010, 136, 475-480.	1.4	25
11	Modification of the Kozeny-Carman Equation To Quantify Formation Damage by Fines in Clean, Unconsolidated Porous Media. <i>SPE Reservoir Evaluation and Engineering</i> , 2014, 17, 466-472.	1.8	21
12	Colloid Deposit Morphology and Clogging in Porous Media: Fundamental Insights Through Investigation of Deposit Fractal Dimension. <i>Environmental Science & Technology</i> , 2015, 49, 12263-12270.	10.0	21
13	Washboards in unpaved highways as a complex dynamic system. <i>Complexity</i> , 2000, 5, 51-60.	1.6	20
14	Predicting nonpoint stormwater runoff quality from land use. <i>PLoS ONE</i> , 2018, 13, e0196782.	2.5	15
15	Contributions of Pore-Scale Mixing and Mechanical Dispersion to Reaction During Active Spreading by Radial Groundwater Flow. <i>Water Resources Research</i> , 2020, 56, e2019WR026276.	4.2	13
16	Effect of methane leakage on the greenhouse gas footprint of electricity generation. <i>Climatic Change</i> , 2015, 133, 169-178.	3.6	12
17	Static light scattering resolves colloid structure in index-matched porous media. <i>Journal of Colloid and Interface Science</i> , 2011, 363, 418-424.	9.4	9
18	Using the Quirk-Schofield Diagram to Explain Environmental Colloid Dispersion Phenomena. <i>Journal of Natural Resources and Life Sciences Education</i> , 2007, 36, 45-52.	0.2	9

#	ARTICLE	IF	CITATIONS
19	Groundwater Contamination, Subsurface Processes, and Remediation Methods: Overview of the Special Issue of Water on Groundwater Contamination and Remediation. <i>Water (Switzerland)</i> , 2018, 10, 1708.	2.7	7
20	One-Week Module on Stochastic Groundwater Modeling. <i>Journal of Geoscience Education</i> , 2010, 58, 101-109.	1.4	6
21	Measurement of colloidal phenomena during flow through refractive index matched porous media. <i>Review of Scientific Instruments</i> , 2015, 86, 113103.	1.3	5
22	Engineered Injection and Extraction for In Situ Remediation of Sorbing Solutes in Groundwater. <i>Journal of Environmental Engineering, ASCE</i> , 2015, 141, .	1.4	5
23	Roles of the Water Court and the State Engineer for water administration in Colorado. <i>Water Policy</i> , 2017, 19, 837-850.	1.5	5
24	Methods for Laser-Induced Fluorescence Imaging of Solute Plumes at the Darcy Scale in Quasi-Two-Dimensional, Refractive Index-Matched Porous Media. <i>Transport in Porous Media</i> , 2021, 136, 879-898.	2.6	5
25	Reply to comment by D. R. Lester et al. on "Plume spreading in groundwater by stretching and folding". <i>Water Resources Research</i> , 2013, 49, 1192-1194.	4.2	4
26	Information Content of Wastewater Flowmeter Data before and during a Surge. <i>Journal of Environmental Engineering, ASCE</i> , 2018, 144, 05018004.	1.4	4
27	Technical and administrative feasibility of alluvial aquifer storage and recovery on the South Platte River of northeastern Colorado. <i>Water Policy</i> , 2018, 20, 841-854.	1.5	4
28	Engineered Well Injection and Extraction to Enhance Mixing in Aquifers. , 2010, , .		3
29	Reuse of Treated Wastewater: From Technical Innovation to Legitimization. , 2020, , .		3
30	Wall Effect Mitigation Techniques for Experiments with Planar Walls. <i>Transport in Porous Media</i> , 2020, 132, 423-441.	2.6	3
31	Active Spreading: Hydraulics for Enhancing Groundwater Remediation. <i>Journal of Hydrologic Engineering - ASCE</i> , 2022, 27, .	1.9	3
32	Demonstration of Reversible Dispersion in a Darcy-Scale Push-Pull Laboratory Experiment. <i>Transport in Porous Media</i> , 0, , 1.	2.6	2
33	Application of the Indigenous evaluation framework to a university certificate program for building cultural awareness in science, technology, engineering, and mathematics. <i>Evaluation and Program Planning</i> , 2022, 92, 102066.	1.6	2
34	Modification of the Kozeny-Carman Equation to Quantify Formation Damage by Fines in Clean Unconsolidated Porous Media. , 2013, , .		1
35	Engineered Injection and Extraction for Remediation of Uranium-Contaminated Groundwater. , 2017, , .		1
36	Wildfire Impacts on Groundwater Aquifers: A Case Study of the 1996 Honey Boy Fire in Beaver County, Utah, USA. <i>Water (Switzerland)</i> , 2021, 13, 2279.	2.7	1

#	ARTICLE	IF	CITATIONS
37	Matrix Approach to Contaminant Transport Potential. Practice Periodical of Hazardous, Toxic and Radioactive Waste Management, 1998, 2, 120-122.	0.4	0
38	Naturally-Occurring Chaotic Advection in Groundwater and Surface-Water Systems. , 2017, , .		0