

Peter K Kang

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,248
citations

394286

19
h-index

360920

35
g-index

40
all docs

40
docs citations

40
times ranked

867
citing authors

#	ARTICLE	IF	CITATIONS
1	Pore-scale intermittent velocity structure underpinning anomalous transport through 3D porous media. <i>Geophysical Research Letters</i> , 2014, 41, 6184-6190.	1.5	131
2	Impact of velocity correlation and distribution on transport in fractured media: Field evidence and theoretical model. <i>Water Resources Research</i> , 2015, 51, 940-959.	1.7	124
3	Emergence of anomalous transport in stressed rough fractures. <i>Earth and Planetary Science Letters</i> , 2016, 454, 46-54.	1.8	109
4	Spatial Markov Model of Anomalous Transport Through Random Lattice Networks. <i>Physical Review Letters</i> , 2011, 107, 180602.	2.9	96
5	Anomalous transport on regular fracture networks: Impact of conductivity heterogeneity and mixing at fracture intersections. <i>Physical Review E</i> , 2015, 92, 022148.	0.8	84
6	Continuous time random walks for the evolution of Lagrangian velocities. <i>Physical Review Fluids</i> , 2016, 1, .	1.0	84
7	Anomalous transport in disordered fracture networks: Spatial Markov model for dispersion with variable injection modes. <i>Advances in Water Resources</i> , 2017, 106, 80-94.	1.7	59
8	Linking Structural and Transport Properties in Three-Dimensional Fracture Networks. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 1185-1204.	1.4	57
9	Stress-Induced Anomalous Transport in Natural Fracture Networks. <i>Water Resources Research</i> , 2019, 55, 4163-4185.	1.7	46
10	Impact of surface porosity on water flux and structural parameter in forward osmosis. <i>Desalination</i> , 2018, 439, 46-57.	4.0	35
11	Anomalous Transport in Three-Dimensional Discrete Fracture Networks: Interplay Between Aperture Heterogeneity and Injection Modes. <i>Water Resources Research</i> , 2020, 56, e2020WR027378.	1.7	31
12	Sequential approach to joint flow-seismic inversion for improved characterization of fractured media. <i>Water Resources Research</i> , 2016, 52, 903-919.	1.7	29
13	Emergence of Stable Laws for First Passage Times in Three-Dimensional Random Fracture Networks. <i>Physical Review Letters</i> , 2019, 123, 248501.	2.9	28
14	Three-Dimensional Vortex-Induced Reaction Hot Spots at Flow Intersections. <i>Physical Review Letters</i> , 2020, 124, 144501.	2.9	28
15	Improved characterization of heterogeneous permeability in saline aquifers from transient pressure data during freshwater injection. <i>Water Resources Research</i> , 2017, 53, 4444-4458.	1.7	26
16	Continuous time random walks for non-local radial solute transport. <i>Advances in Water Resources</i> , 2015, 82, 16-26.	1.7	25
17	Anomalous transport through free-flow-porous media interface: Pore-scale simulation and predictive modeling. <i>Advances in Water Resources</i> , 2020, 135, 103467.	1.7	24
18	Roughness, inertia, and diffusion effects on anomalous transport in rough channel flows. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	23

#	ARTICLE	IF	CITATIONS
19	Potential impact of pore-scale incomplete mixing on biodegradation in aquifers: From batch experiment to field-scale modeling. <i>Advances in Water Resources</i> , 2019, 123, 1-11.	1.7	22
20	Evaluation of a real-time visualization system for scaling detection during DCMD, and its correlation with wetting. <i>Desalination</i> , 2019, 454, 59-70.	4.0	21
21	Well radius of influence and radius of investigation: What exactly are they and how to estimate them?. <i>Journal of Hydrology</i> , 2020, 583, 124646.	2.3	21
22	Predictability of anomalous transport on lattice networks with quenched disorder. <i>Physical Review E</i> , 2011, 83, 030101.	0.8	19
23	Origin of structural parameter inconsistency in forward osmosis models: A pore-scale CFD study. <i>Desalination</i> , 2017, 421, 47-60.	4.0	18
24	Recirculating flow-induced anomalous transport in meandering open-channel flows. <i>Advances in Water Resources</i> , 2020, 141, 103603.	1.7	16
25	Theoretical Analysis of Groundwater Flow Patterns Near Stagnation Points. <i>Water Resources Research</i> , 2019, 55, 1624-1650.	1.7	15
26	Impact of Confining Stress on Capillary Pressure Behavior During Drainage Through Rough Fractures. <i>Geophysical Research Letters</i> , 2019, 46, 7424-7436.	1.5	12
27	Spatiotemporal evolution of iron and sulfate concentrations during riverbank filtration: Field observations and reactive transport modeling. <i>Journal of Contaminant Hydrology</i> , 2020, 234, 103697.	1.6	8
28	Microfluidic pore model study of precipitates induced by the pore-scale mixing of an iron sulfate solution with simulated groundwater. <i>Chemosphere</i> , 2021, 271, 129857.	4.2	8
29	Machine learning to predict effective reaction rates in 3D porous media from pore structural features. <i>Scientific Reports</i> , 2022, 12, 5486.	1.6	8
30	Maximizing the value of pressure data in saline aquifer characterization. <i>Advances in Water Resources</i> , 2017, 109, 14-28.	1.7	7
31	Optimal fluid stretching for mixing-limited reactions in rough channel flows. <i>Journal of Fluid Mechanics</i> , 2021, 916, .	1.4	7
32	Pore-Scale Flow Effects on Solute Transport in Turbulent Channel Flows Over Porous Media. <i>Transport in Porous Media</i> , 2023, 146, 223-248.	1.2	6
33	Mixing-Induced Bimolecular Reactive Transport in Rough Channel Flows: Pore-Scale Simulation and Stochastic Upscaling. <i>Transport in Porous Media</i> , 0, , 1.	1.2	5
34	A Hybrid Optimization Methodology Identifying Optimal Operating Conditions for Carbon Dioxide Injection in Geologic Carbon Sequestration. <i>International Journal of Greenhouse Gas Control</i> , 2020, 98, 103067.	2.3	3
35	Evolution of the radius of investigation during recovery tests. <i>Journal of Hydrology</i> , 2020, 590, 125346.	2.3	3
36	Influence of hydrogeological and operational parameters on well pumping capacity. <i>Journal of Hydrology</i> , 2022, 608, 127643.	2.3	3

#	ARTICLE	IF	CITATIONS
37	Joint flow seismic inversion for characterizing fractured reservoirs: Theoretical approach and numerical modeling. , 2013, , .		2
38	Effects of variable-density flow on the value-of-information of pressure and concentration data for aquifer characterization. <i>Advances in Water Resources</i> , 2020, 135, 103468.	1.7	2
39	Identification of iron and sulfate release processes during riverbank filtration using chemical mass balance modeling. <i>Environmental Geochemistry and Health</i> , 2021, 43, 3583-3596.	1.8	2
40	Aquifer-scale mapping of injection capacity for potential aquifer storage and recovery sites: Methodology development and case studies in Minnesota, USA. <i>Journal of Hydrology: Regional Studies</i> , 2022, 40, 101048.	1.0	1