Riyadh I Al-Raoush

List of Publications by Year
in descending order

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43 papers	1,397 citations	331259 21 h-index	329751 37 g-index
43 all docs	43 docs citations	43 times ranked	1387 citing authors

#	Article	IF	Citations
1	Comparison of Network Generation Techniques for Unconsolidated Porous Media. Soil Science Society of America Journal, 2003, 67, 1687-1700.	1.2	155
2	A pore-scale investigation of a multiphase porous media system. Journal of Contaminant Hydrology, 2005, 77, 67-89.	1.6	144
3	Quantifying Morphology of Sands Using 3D Imaging. Journal of Materials in Civil Engineering, 2015, 27, .	1.3	107
4	3D characterization of sand particle-to-particle contact and morphology. Computers and Geotechnics, 2016, 74, 26-35.	2.3	79
5	Enhanced treatment of petroleum refinery wastewater by short-term applied voltage in single chamber microbial fuel cell. Bioresource Technology, 2018, 253, 16-21.	4.8	73
6	Impact of Wettability on Pore-Scale Characteristics of Residual Nonaqueous Phase Liquids. Environmental Science & Technology, 2009, 43, 4796-4801.	4.6	71
7	Microstructure characterization of granular materials. Physica A: Statistical Mechanics and Its Applications, 2007, 377, 545-558.	1.2	59
8	A microfluidic pore model to study the migration of fine particles in single-phase and multi-phase flows in porous media. Microsystem Technologies, 2018, 24, 1071-1080.	1.2	50
9	Influence of Particle Morphology on 3D Kinematic Behavior and Strain Localization of Sheared Sand. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	1.5	49
10	Cylindrical graphite based microbial fuel cell for the treatment of industrial wastewaters and bioenergy generation. Bioresource Technology, 2018, 247, 753-758.	4.8	46
11	Biological anodic oxidation and cathodic reduction reactions for improved bioelectrochemical treatment of petroleum refinery wastewater. Journal of Cleaner Production, 2018, 190, 44-52.	4.6	41
12	Removal of petroleum hydrocarbons and sulfates from produced water using different bioelectrochemical reactor configurations. Science of the Total Environment, 2019, 665, 820-827.	3.9	40
13	TORT3D: A MATLAB code to compute geometric tortuosity from 3D images of unconsolidated porous media. Powder Technology, 2017, 320, 99-107.	2.1	38
14	Experimental investigation of the influence of grain geometry on residual NAPL using synchrotron microtomography. Journal of Contaminant Hydrology, 2014, 159, 1-10.	1.6	36
15	Review on the production of medium and small chain fatty acids through waste valorization and CO2 fixation. Bioresource Technology, 2020, 309, 123400.	4.8	36
16	Comprehensive literature review on CH4-CO2 replacement in microscale porous media. Journal of Petroleum Science and Engineering, 2018, 171, 48-62.	2.1	34
17	3D measurements of hydrate surface area during hydrate dissociation in porous media using dynamic 3D imaging. Fuel, 2020, 265, 116978.	3.4	30
18	Change in Microstructure Parameters of Porous Media Over Representative Elementary Volume for Porosity. Particulate Science and Technology, 2012, 30, 1-16.	1.1	28

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19	A microbial fuel cell configured for the remediation of recalcitrant pollutants in soil environment. RSC Advances, 2019, 9, 41409-41418.	1.7	25
20	Integrating electrochemical and bioelectrochemical systems for energetically sustainable treatment of produced water. Fuel, 2021, 285, 119104.	3.4	25
21	Induced bioelectrochemical metabolism for bioremediation of petroleum refinery wastewater: Optimization of applied potential and flow of wastewater. Bioresource Technology, 2018, 260, 227-232.	4.8	23
22	Micro Shear Bands: Precursor for Strain Localization in Sheared Granular Materials. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	1.5	22
23	Pore-scale simulation of fine particles migration in porous media using coupled CFD-DEM. Powder Technology, 2022, 398, 117130.	2.1	22
24	Sorption of benzene and naphthalene on (semi)-arid coastal soil as a function of salinity and temperature. Journal of Contaminant Hydrology, 2018, 219, 61-71.	1.6	18
25	Colloid retention and mobilization mechanisms under different physicochemical conditions in porous media: A micromodel study. Powder Technology, 2021, 377, 163-173.	2.1	18
26	Three-Dimensional Evaluation of Sand Particle Fracture Using Discrete-Element Method and Synchrotron Microcomputed Tomography Images. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	1.5	16
27	3D synchrotron computed tomography study on the influence of fines on gas driven fractures in Sandy Sediments. Geomechanics for Energy and the Environment, 2020, 23, 100105.	1.2	13
28	Effects of soaking process on CH4â€“CO2 replacement efficiency for hydrate-bearing sediments. Journal of Petroleum Science and Engineering, 2021, 196, 107772.	2.1	12
29	Characterization of Cellobiohydrolases from Schizophyllum commune KMJ820. Indian Journal of Microbiology, 2020, 60, 160-166.	1.5	11
30	Sewage enhanced bioelectrochemical degradation of petroleum hydrocarbons in soil environment through bioelectro-stimulation. Biotechnology Reports (Amsterdam, Netherlands), 2020, 27, e00478.	2.1	10
31	Effects of Fine-Grained Particlesâ€™ Migration and Clogging in Porous Media on Gas Production from Hydrate-Bearing Sediments. Geofluids, 2019, 2019, 1-11.	0.3	9
32	Impact of electric potential and magnetic fields on power generation in microbial fuel cells treating food waste leachate. Journal of Water Process Engineering, 2021, 40, 101841.	2.6	9
33	Sorption and Desorption of the Model Aromatic Hydrocarbons Naphthalene and Benzene: Effects of Temperature and Soil Composition. Frontiers in Environmental Chemistry, 2020, 1, .	0.7	8
34	Release of colloids in saturated porous media under transient hydro-chemical conditions: A pore-scale study. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 614, 126188.	2.3	8
35	New model for estimating geometric tortuosity of variably saturated porous media using 3D synchrotron microcomputed tomography imaging. Soil Science Society of America Journal, 2021, 85, 1867-1879.	1.2	8
36	Biodegradation Kinetics of Benzene and Naphthalene in the Vadose and Saturated Zones of a (Semi)-arid Saline Coastal Soil Environment. Geofluids, 2019, 2019, 1-15.	0.3	6

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37	Discrepancy in the Critical State Void Ratio of Poorly Graded Sand due to Shear Strain Localization. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, 04020066.	1.5	5
38	3D Quantum Cuts for automatic segmentation of porous media in tomography images. Computers and Geosciences, 2022, 159, 105017.	2.0	4
39	Enhancement of Naphthalene Degradation by a Sequential Sulfate Injection Scenario in a (Semi)-Arid Coastal Soil: a Flow-Through Reactor Experiment. Water, Air, and Soil Pollution, 2020, 231, 1.	1.1	3
40	Effects of dissolved organic phase composition and salinity on the engineered sulfate application in a flow-through system. Environmental Science and Pollution Research, 2020, 27, 11842-11854.	2.7	3
41	Groundwater pollution by petroleumderived contaminants in coastal semiarid environment. , 2018, , .		2
42	Impact of Fines Type on Gas Flow Using 3D Micro-Computed Tomography. , 2019, , .		1
43	Gas Driven Fracture during Gas Production using HeleShaw Cell. , 2018, , .		0