

Riyadh I Al-Raoush

List of Publications by Citations

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41
papers

966
citations

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h-index

30
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43
ext. papers

1,170
ext. citations

5.1
avg, IF

5.13
L-index

#	Paper	IF	Citations
41	Comparison of Network Generation Techniques for Unconsolidated Porous Media. <i>Soil Science Society of America Journal</i> , 2003 , 67, 1687-1700	2.5	124
40	A pore-scale investigation of a multiphase porous media system. <i>Journal of Contaminant Hydrology</i> , 2005 , 77, 67-89	3.9	123
39	Quantifying Morphology of Sands Using 3D Imaging. <i>Journal of Materials in Civil Engineering</i> , 2015 , 27, 04014275	3	70
38	3D characterization of sand particle-to-particle contact and morphology. <i>Computers and Geotechnics</i> , 2016 , 74, 26-35	4.4	62
37	Impact of wettability on pore-scale characteristics of residual nonaqueous phase liquids. <i>Environmental Science & Technology</i> , 2009 , 43, 4796-801	10.3	59
36	Enhanced treatment of petroleum refinery wastewater by short-term applied voltage in single chamber microbial fuel cell. <i>Bioresource Technology</i> , 2018 , 253, 16-21	11	55
35	Microstructure characterization of granular materials. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007 , 377, 545-558	3.3	46
34	Cylindrical graphite based microbial fuel cell for the treatment of industrial wastewaters and bioenergy generation. <i>Bioresource Technology</i> , 2018 , 247, 753-758	11	42
33	Influence of Particle Morphology on 3D Kinematic Behavior and Strain Localization of Sheared Sand. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017 , 143, 04016097	3.4	35
32	Biological anodic oxidation and cathodic reduction reactions for improved bioelectrochemical treatment of petroleum refinery wastewater. <i>Journal of Cleaner Production</i> , 2018 , 190, 44-52	10.3	28
31	Experimental investigation of the influence of grain geometry on residual NAPL using synchrotron microtomography. <i>Journal of Contaminant Hydrology</i> , 2014 , 159, 1-10	3.9	28
30	Comprehensive literature review on CH ₄ -CO ₂ replacement in microscale porous media. <i>Journal of Petroleum Science and Engineering</i> , 2018 , 171, 48-62	4.4	27
29	A microfluidic pore model to study the migration of fine particles in single-phase and multi-phase flows in porous media. <i>Microsystem Technologies</i> , 2018 , 24, 1071-1080	1.7	24
28	TORT3D: A MATLAB code to compute geometric tortuosity from 3D images of unconsolidated porous media. <i>Powder Technology</i> , 2017 , 320, 99-107	5.2	24
27	Change in Microstructure Parameters of Porous Media Over Representative Elementary Volume for Porosity. <i>Particulate Science and Technology</i> , 2012 , 30, 1-16	2	23
26	Removal of petroleum hydrocarbons and sulfates from produced water using different bioelectrochemical reactor configurations. <i>Science of the Total Environment</i> , 2019 , 665, 820-827	10.2	22
25	3D measurements of hydrate surface area during hydrate dissociation in porous media using dynamic 3D imaging. <i>Fuel</i> , 2020 , 265, 116978	7.1	20

24	A microbial fuel cell configured for the remediation of recalcitrant pollutants in soil environment.. <i>RSC Advances</i> , 2019 , 9, 41409-41418	3.7	19
23	Review on the production of medium and small chain fatty acids through waste valorization and CO fixation. <i>Bioresource Technology</i> , 2020 , 309, 123400	11	17
22	Induced bioelectrochemical metabolism for bioremediation of petroleum refinery wastewater: Optimization of applied potential and flow of wastewater. <i>Bioresource Technology</i> , 2018 , 260, 227-232	11	15
21	Micro Shear Bands: Precursor for Strain Localization in Sheared Granular Materials. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019 , 145, 04018104	3.4	14
20	Sorption of benzene and naphthalene on (semi)-arid coastal soil as a function of salinity and temperature. <i>Journal of Contaminant Hydrology</i> , 2018 , 219, 61-71	3.9	12
19	Characterization of Cellobiohydrolases from KMJ820. <i>Indian Journal of Microbiology</i> , 2020 , 60, 160-166	3.7	11
18	Integrating electrochemical and bioelectrochemical systems for energetically sustainable treatment of produced water. <i>Fuel</i> , 2021 , 285, 119104	7.1	10
17	Three-Dimensional Evaluation of Sand Particle Fracture Using Discrete-Element Method and Synchrotron Microcomputed Tomography Images. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2020 , 146, 06020007	3.4	8
16	Colloid retention and mobilization mechanisms under different physicochemical conditions in porous media: A micromodel study. <i>Powder Technology</i> , 2021 , 377, 163-173	5.2	7
15	Sewage enhanced bioelectrochemical degradation of petroleum hydrocarbons in soil environment through bioelectro-stimulation. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2020 , 27, e00478	5.3	6
14	3D synchrotron computed tomography study on the influence of fines on gas driven fractures in Sandy Sediments. <i>Geomechanics for Energy and the Environment</i> , 2020 , 23, 100105	3.7	6
13	Effects of soaking process on CH ₄ /CO ₂ replacement efficiency for hydrate-bearing sediments. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 196, 107772	4.4	5
12	Effects of Fine-Grained Particles Migration and Clogging in Porous Media on Gas Production from Hydrate-Bearing Sediments. <i>Geofluids</i> , 2019 , 2019, 1-11	1.5	4
11	Discrepancy in the Critical State Void Ratio of Poorly Graded Sand due to Shear Strain Localization. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2020 , 146, 04020066	3.4	3
10	Impact of electric potential and magnetic fields on power generation in microbial fuel cells treating food waste leachate. <i>Journal of Water Process Engineering</i> , 2021 , 40, 101841	6.7	3
9	Biodegradation Kinetics of Benzene and Naphthalene in the Vadose and Saturated Zones of a (Semi)-arid Saline Coastal Soil Environment. <i>Geofluids</i> , 2019 , 2019, 1-15	1.5	3
8	Effects of dissolved organic phase composition and salinity on the engineered sulfate application in a flow-through system. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 11842-11854	5.1	2
7	Groundwater pollution by petroleum-derived contaminants in coastal semiarid environment 2018 ,		2

6	Sorption and Desorption of the Model Aromatic Hydrocarbons Naphthalene and Benzene: Effects of Temperature and Soil Composition. <i>Frontiers in Environmental Chemistry</i> , 2020 , 1,	3	2
5	New model for estimating geometric tortuosity of variably saturated porous media using 3D synchrotron microcomputed tomography imaging. <i>Soil Science Society of America Journal</i> , 2021 , 85, 1867 ² ·5		2
4	Pore-scale simulation of fine particles migration in porous media using coupled CFD-DEM. <i>Powder Technology</i> , 2022 , 398, 117130	5.2	1
3	Enhancement of Naphthalene Degradation by a Sequential Sulfate Injection Scenario in a (Semi)-Arid Coastal Soil: a Flow-Through Reactor Experiment. <i>Water, Air, and Soil Pollution</i> , 2020 , 231, 1	2.6	1
2	Release of colloids in saturated porous media under transient hydro-chemical conditions: A pore-scale study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 614, 126188	5.1	1
1	3D Quantum Cuts for automatic segmentation of porous media in tomography images. <i>Computers and Geosciences</i> , 2021 , 159, 105017	4.5	0