

Jean-Charles Robinet

List of Publications by Year in descending order

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papers

629
citations

840776

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all docs

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docs citations

29
times ranked

680
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of mineral distribution at mesoscopic scale on solute diffusion in a clay-rich rock: Example of the Callovo-Oxfordian mudstone (Bure, France). <i>Water Resources Research</i> , 2012, 48, .	4.2	137
2	Influence of Hydrogen Electron Donor, Alkaline pH, and High Nitrate Concentrations on Microbial Denitrification: A Review. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5163.	4.1	75
3	Optimization of pore-network characterization of a compacted clay material by TEM and FIB/SEM imaging. <i>Microporous and Mesoporous Materials</i> , 2016, 224, 116-128.	4.4	65
4	Hydrogen uptake and diffusion in Callovo-Oxfordian clay rock for nuclear waste disposal technology. <i>Applied Geochemistry</i> , 2014, 49, 168-177.	3.0	48
5	Dielectric relaxation behavior of Callovo-Oxfordian clay rock: A hydraulic-mechanical-electromagnetic coupling approach. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 4729-4744.	3.4	42
6	Hydrogen adsorption and diffusion in synthetic Na-montmorillonites at high pressures and temperature. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 2698-2709.	7.1	38
7	Retention of arsenic, chromium and boron on an outcropping clay-rich rock formation (the Argulines) Tj ETQq1 1,0784314 rgBT /Ove	8.0	26
8	The Effect of Rock Matrix Heterogeneities Near Fracture Walls on the Residence Time Distribution (RTD) of Solutes. <i>Transport in Porous Media</i> , 2008, 72, 393-408.	2.6	20
9	Influence of Polarizability on the Prediction of the Electrical Double Layer Structure in a Clay Mesopore: A Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6221-6232.	3.1	17
10	From experimental variability to the sorption related retention parameters necessary for performance assessment models for nuclear waste disposal systems: The example of Pb adsorption on clay minerals. <i>Applied Clay Science</i> , 2018, 163, 20-32.	5.2	16
11	Nitrate and nitrite bacterial reduction at alkaline pH and high nitrate concentrations, comparison of acetate versus dihydrogen as electron donors. <i>Journal of Environmental Management</i> , 2021, 280, 111859.	7.8	16
12	A Deep Alteration and Oxidation Profile in a Shallow Clay Aquitard: Example of the Argulines Clay, East Paris Basin, France. <i>Geofluids</i> , 2018, 2018, 1-20.	0.7	12
13	Nitrate and nitrite reduction at high pH in a cementitious environment by a microbial microcosm. <i>International Biodeterioration and Biodegradation</i> , 2018, 134, 93-102.	3.9	11
14	Shale weathering: A lysimeter and modelling study for flow, transport, gas diffusion and reactivity assessment in the critical zone. <i>Journal of Hydrology</i> , 2020, 587, 124925.	5.4	11
15	Competitive Adsorption Processes at Clay Mineral Surfaces: A Coupled Experimental and Modeling Approach. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 144-159.	2.7	11
16	Use of a continuous-flow bioreactor to evaluate nitrate reduction rate of <i>Halomonas desiderata</i> in cementitious environment relevant to nuclear waste deep repository. <i>Biochemical Engineering Journal</i> , 2017, 125, 161-170.	3.6	10
17	Influence of soil redox state on mercury sorption and reduction capacity. <i>Science of the Total Environment</i> , 2020, 707, 136069.	8.0	10
18	Smectite fraction assessment in complex natural clay rocks from interlayer water content determined by thermogravimetric and thermoporometry analysis. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 157-165.	9.4	9

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19	Nickel Retention on Callovo-Oxfordian Clay: Applicability of Existing Adsorption Models for Dilute Systems to Real Compact Rock. <i>Environmental Science & Technology</i> , 2020, 54, 12226-12234.	10.0	9
20	Nitrate and nitrite reduction activity of activated sludge microcosm in a highly alkaline environment with solid cementitious material. <i>International Biodeterioration and Biodegradation</i> , 2020, 151, 104971.	3.9	7
21	Origin of dissolved gas (CO ₂ , O ₂ , N ₂ , alkanes) in pore waters of a clay formation in the critical zone (TÃ©gulines Clay, France). <i>Applied Geochemistry</i> , 2020, 116, 104573.	3.0	7
22	Long-Term ¹³ C Uptake by ¹² C-Enriched Calcite. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 998-1005.	2.7	7
23	Sorption of radium onto early cretaceous clays (Gault and Plicatules Fm). Implications for a repository of low-level, long-lived radioactive waste. <i>Applied Geochemistry</i> , 2017, 86, 36-48.	3.0	6
24	Adaptation of neutrophilic <i>Paracoccus denitrificans</i> to denitrification at highly alkaline pH. <i>Environmental Science and Pollution Research</i> , 2020, 27, 22112-22119.	5.3	5
25	Influence of Water Saturation Level on Electrical Double Layer Properties in a Clay Mineral Mesopore: A Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2022, 126, 647-654.	3.1	5
26	Mobility of organic compounds in a soft clay-rich rock (TÃ©gulines clay, France). <i>Chemosphere</i> , 2021, 275, 130048.	8.2	3
27	Organic matter oxidation of the TÃ©gulines Clay formation, (Paris Basin, France): Spatial Heterogeneities. <i>Applied Geochemistry</i> , 2021, 134, 105093.	3.0	3
28	Impact of Microstructure on Anion Exclusion in Compacted Clay Media. , 0, , 137-149.		2
29	STED nanoscopy " A novel way to image the pore space of geological materials. <i>Journal of Microscopy</i> , 2021, 283, 151-165.	1.8	1