Damien Jougnot

List of Publications by Year
in descending order

64	1,942	218677	276875
papers	citations	26 h-index	41 g-index

82	82	82	1159
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Predictive surface complexation model of the calcite-aqueous solution interface: The impact of high concentration and complex composition of brines. Journal of Colloid and Interface Science, 2022, 609, 852-867.	9.4	13
2	A Fractal Model for Effective Excess Charge Density in Variably Saturated Fractured Rocks. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	4
3	Dynamic streaming potential coupling coefficient in porous media with different pore size distributions. Geophysical Journal International, 2022, 229, 720-735.	2.4	5
4	Interpreting Self-Potential Signal during Reactive Transport: Application to Calcite Dissolution and Precipitation. Water (Switzerland), 2022, 14, 1632.	2.7	4
5	The Case for Considering Polarization in the Interpretation of Electrical and Electromagnetic Measurements in the 3ÂkHz to 3ÂMHz Frequency Range. Surveys in Geophysics, 2021, 42, 377-397.	4.6	7
6	Spectral Induced Polarization Characterization of Nonâ€Consolidated Clays for Varying Salinitiesâ€”An Experimental Study. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021125.	3.4	16
7	Predicting Electrokinetic Coupling and Electrical Conductivity in Fractured Media Using a Fractal Distribution of Tortuous Capillary Fractures. Applied Sciences (Switzerland), 2021, 11, 5121.	2.5	6
8	å®Œå…¨é¥±å'Œä¸Žéƒ¨åˆ†é¥±å'Œåšå²ä»‹è´¨ä¸æ°´æµé¢„æµ‹:åŸºäºåŸŽå¸‚å½¢çš„æ–—æ°´æ¸—é€Ž模åž‹. Hydrogeology Journal, 2021, 29, 2	2.1	16
9	Hydrogeophysical Characterization in a Volcanic Context From Local to Regional Scales Combining Airborne Electromagnetism and Magnetism. Geophysical Research Letters, 2021, 48, e2020GL092000.	4.0	15
10	Predicting the frequency-dependent effective excess charge density: A new upscaling approach for seismoelectric modeling. Geophysics, 2021, 86, WB19-WB28.	2.6	7
11	Influence of Pore Size Distribution on the Electrokinetic Coupling Coefficient in Two-Phase Flow Conditions. Water (Switzerland), 2021, 13, 2316.	2.7	8
12	River Corridor Model Constrained by Timeâ€Lapse Seismic Acquisition. Water Resources Research, 2021, 57, e2020WR028911.	4.2	3
13	A data mining approach for improved interpretation of ERT inverted sections using the DBSCAN clustering algorithm. Geophysical Journal International, 2021, 225, 1304-1318.	2.4	15
14	Surfaceâ€Wave Dispersion in Partially Saturated Soils: The Role of Capillary Forces. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022074.	3.4	11
15	First Evidence of Correlation Between Evapotranspiration and Gravity at a Daily Time Scale From Two Vertically Spaced Superconducting Gravimeters. Geophysical Research Letters, 2021, 48, .	4.0	6
16	A fractal model for the electrical conductivity of water-saturated porous media during mineral precipitation-dissolution processes. Advances in Water Resources, 2020, 145, 103742.	3.8	31
17	An effective excess charge model to describe hysteresis effects on streaming potential. Journal of Hydrology, 2020, 588, 124949.	5.4	10
18	A physically based model for the electrical conductivity of partially saturated porous media. Geophysical Journal International, 2020, 223, 993-1006.	2.4	9

#	Article	IF	Citations
19	A Physically Based Model for the Streaming Potential Coupling Coefficient in Partially Saturated Porous Media. Water (Switzerland), 2020, 12, 1588.	2.7	11
20	Electroosmotic Coupling in Porous Media, a New Model Based on a Fractal Upscaling Procedure. Transport in Porous Media, 2020, 134, 249-274.	2.6	8
21	Advancing quantitative understanding of self-potential signatures in the critical zone through long-term monitoring. Journal of Hydrology, 2020, 585, 124771.	5.4	16
22	Determination of the permeability of seepage flow paths in dams from self-potential measurements. Engineering Geology, 2020, 268, 105514.	6.3	28
23	Time-Lapse Seismic and Electrical Monitoring of the Vadose Zone during a Controlled Infiltration Experiment at the Ploemeur Hydrological Observatory, France. Water (Switzerland), 2020, 12, 1230.	2.7	19
24	Modeling Streaming Potential in Porous and Fractured Media, Description and Benefits of the Effective Excess Charge Density Approach. Springer Geophysics, 2020, , 61-96.	0.9	19
25	Dynamic permeability functions for partially saturated porous media. Geophysical Journal International, 2020, 221, 1182-1189.	2.4	10
26	Induced polarization response of porous media with metallic particles â€" Part 10: Influence of desiccation. Geophysics, 2019, 84, E357-E375.	2.6	14
27	A physically based model for the electrical conductivity of water-saturated porous media. Geophysical Journal International, 2019, 219, 866-876.	2.4	31
28	Exploring the Effect of the Pore Size Distribution on the Streaming Potential Generation in Saturated Porous Media, Insight From Pore Network Simulations. Journal of Geophysical Research: Solid Earth, 2019, 124, 5315-5335.	3.4	29
29	Transpirationâ€•and precipitationâ€•induced subsurface water flow observed using the selfâ€potential method. Hydrological Processes, 2019, 33, 1784-1801.	2.6	26
30	New approach to up-scale the frequency-dependent effective excess charge density for seismoelectric modeling. , 2019, , .		2
31	Integrated Analysis of Geophysical Data Using a Data Mining Approach. , 2019, , .		1
32	Variations of petrophysical properties and spectral induced polarization in response to drainage and imbibition: a study on a correlated random tube network. Geophysical Journal International, 2018, 212, 1398-1411.	2.4	24
33	Impact of small-scale saline tracer heterogeneity on electrical resistivity monitoring in fully and partially saturated porous media: Insights from geoelectrical milli-fluidic experiments. Advances in Water Resources, 2018, 113, 295-309.	3.8	28
34	3D electrical conductivity tomography of volcanoes. Journal of Volcanology and Geothermal Research, 2018, 356, 243-263.	2.1	47
35	Geoelectrical Signatures of Reactive Mixing: A Theoretical Assessment. Geophysical Research Letters, 2018, 45, 3489-3498.	4.0	6
36	A Physically Based Analytical Model to Describe Effective Excess Charge for Streaming Potential Generation in Water Saturated Porous Media. Journal of Geophysical Research: Solid Earth, 2018, 123, 52-65.	3.4	32

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37	Estimating picking errors in nearâ€surface seismic data to enable their timeâ€lapse interpretation of hydrosystems. Near Surface Geophysics, 2018, 16, 613-625.	1.2	14
38	A Simple Hysteretic Constitutive Model for Unsaturated Flow. Transport in Porous Media, 2017, 120, 271-285.	2.6	41
39	Streaming potential modeling in fractured rock: Insights into the identification of hydraulically active fractures. Geophysical Research Letters, 2016, 43, 4937-4944.	4.0	33
40	Influence of surface conductivity on the apparent zeta potential of calcite. Journal of Colloid and Interface Science, 2016, 468, 262-275.	9.4	80
41	Electrical Resistivity Monitoring of Saline Tracer Fingering at Pore Scale under Partially Saturated Conditions. , 2016, , .		2
42	Monitoring of saline tracer movement with vertically distributed self-potential measurements at the HOBE agricultural test site, Voulund, Denmark. Journal of Hydrology, 2015, 521, 314-327.	5.4	57
43	Impact of water saturation on seismoelectric transfer functions: a laboratory study of coseismic phenomenon. Geophysical Journal International, 2015, 200, 1317-1335.	2.4	59
44	Feature-preserving interpolation and filtering of environmental time series. Environmental Modelling and Software, 2015, 72, 71-76.	4.5	10
45	An analytical study of seismoelectric signals produced by 1-D mesoscopic heterogeneities. Geophysical Journal International, 2015, 201, 329-342.	2.4	13
46	Selfâ€Potentials in Partially Saturated Media: The Importance of Explicit Modeling of Electrode Effects. Vadose Zone Journal, 2013, 12, 1-21.	2.2	36
47	Seismoelectric effects due to mesoscopic heterogeneities. Geophysical Research Letters, 2013, 40, 2033-2037.	4.0	35
48	EXPLICIT MODELING OF ELECTRODE POLARIZATION TO UNDERSTAND SELF-POTENTIAL LABORATORY DATA UNDER PARTIALLY SATURATED CONDITIONS. , 2013, , .		0
49	A double layer model of the gas bubble/water interface. Journal of Colloid and Interface Science, 2012, 388, 243-256.	9.4	73
50	Derivation of Soilâ€Specific Streaming Potential Electrical Parameters from Hydrodynamic Characteristics of Partially Saturated Soils. Vadose Zone Journal, 2012, 11, .	2.2	95
51	Self-potential investigations of a gravel bar in a restored river corridor. Hydrology and Earth System Sciences, 2011, 15, 729-742.	4.9	32
52	Transport properties of the Callovoâ€Oxfordian clay rock under partially saturated conditions. Water Resources Research, 2010, 46, .	4.2	35
53	Potential of Electrical Resistivity Tomography to Detect Fault Zones in Limestone and Argillaceous Formations in the Experimental Platform of Tournemire, France. Pure and Applied Geophysics, 2010, 167, 1405-1418.	1.9	43
54	Spectral induced polarization of partially saturated clay-rocks: a mechanistic approach. Geophysical Journal International, 2010, 180, 210-224.	2.4	133

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55	Thermal conductivity of unsaturated clay-rocks. Hydrology and Earth System Sciences, 2010, 14, 91-98.	4.9	46
56	Non-invasive monitoring of water content and textural changes in clay-rocks using spectral induced polarization: A laboratory investigation. Applied Clay Science, 2009, 43, 493-502.	5.2	49
57	Diffusion of ionic tracers in the Callovo-Oxfordian clay-rock using the Donnan equilibrium model and the formation factor. Geochimica Et Cosmochimica Acta, 2009, 73, 2712-2726.	3.9	77
58	Diffusion of ions in unsaturated porous materials. Journal of Colloid and Interface Science, 2008, 319, 226-235.	9.4	43
59	A physical model of the lowâ€frequency electrical polarization of clay rocks. Journal of Geophysical Research, 2008, 113, .	3.3	27
60	Streaming current generation in two-phase flow conditions. Geophysical Research Letters, 2007, 34, .	4.0	122
61	Electrokinetic coupling in unsaturated porous media. Journal of Colloid and Interface Science, 2007, 313, 315-327.	9.4	205
62	Modeling the evolution of complex conductivity during calcite precipitation on glass beads. Geophysical Journal International, 0, , ggx001.	2.4	13
63	An analytical effective excess charge density model to predict the streaming potential generated by unsaturated flow. Geophysical Journal International, 0, , .	2.4	14
64	Electrical Signatures of Diffusion-Limited Mixing: Insights from a Milli-fluidic Tracer Experiment. Transport in Porous Media, 0, , 1.	2.6	2