

# Damien Jougnot

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

1,942  
citations

218677

26  
h-index

276875

41  
g-index

82  
all docs

82  
docs citations

82  
times ranked

1159  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrokinetic coupling in unsaturated porous media. <i>Journal of Colloid and Interface Science</i> , 2007, 313, 315-327.	9.4	205
2	Spectral induced polarization of partially saturated clay-rocks: a mechanistic approach. <i>Geophysical Journal International</i> , 2010, 180, 210-224.	2.4	133
3	Streaming current generation in two-phase flow conditions. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	122
4	Derivation of Soil-Specific Streaming Potential Electrical Parameters from Hydrodynamic Characteristics of Partially Saturated Soils. <i>Vadose Zone Journal</i> , 2012, 11, .	2.2	95
5	Influence of surface conductivity on the apparent zeta potential of calcite. <i>Journal of Colloid and Interface Science</i> , 2016, 468, 262-275.	9.4	80
6	Diffusion of ionic tracers in the Callovo-Oxfordian clay-rock using the Donnan equilibrium model and the formation factor. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 2712-2726.	3.9	77
7	A double layer model of the gas bubble/water interface. <i>Journal of Colloid and Interface Science</i> , 2012, 388, 243-256.	9.4	73
8	Impact of water saturation on seismoelectric transfer functions: a laboratory study of coseismic phenomenon. <i>Geophysical Journal International</i> , 2015, 200, 1317-1335.	2.4	59
9	Monitoring of saline tracer movement with vertically distributed self-potential measurements at the HOBE agricultural test site, Voulund, Denmark. <i>Journal of Hydrology</i> , 2015, 521, 314-327.	5.4	57
10	Non-invasive monitoring of water content and textural changes in clay-rocks using spectral induced polarization: A laboratory investigation. <i>Applied Clay Science</i> , 2009, 43, 493-502.	5.2	49
11	3D electrical conductivity tomography of volcanoes. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 356, 243-263.	2.1	47
12	Thermal conductivity of unsaturated clay-rocks. <i>Hydrology and Earth System Sciences</i> , 2010, 14, 91-98.	4.9	46
13	Diffusion of ions in unsaturated porous materials. <i>Journal of Colloid and Interface Science</i> , 2008, 319, 226-235.	9.4	43
14	Potential of Electrical Resistivity Tomography to Detect Fault Zones in Limestone and Argillaceous Formations in the Experimental Platform of Tournemire, France. <i>Pure and Applied Geophysics</i> , 2010, 167, 1405-1418.	1.9	43
15	A Simple Hysteretic Constitutive Model for Unsaturated Flow. <i>Transport in Porous Media</i> , 2017, 120, 271-285.	2.6	41
16	Self-Potentials in Partially Saturated Media: The Importance of Explicit Modeling of Electrode Effects. <i>Vadose Zone Journal</i> , 2013, 12, 1-21.	2.2	36
17	Transport properties of the Callovo-Oxfordian clay rock under partially saturated conditions. <i>Water Resources Research</i> , 2010, 46, .	4.2	35
18	Seismoelectric effects due to mesoscopic heterogeneities. <i>Geophysical Research Letters</i> , 2013, 40, 2033-2037.	4.0	35

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19	Streaming potential modeling in fractured rock: Insights into the identification of hydraulically active fractures. <i>Geophysical Research Letters</i> , 2016, 43, 4937-4944.	4.0	33
20	Self-potential investigations of a gravel bar in a restored river corridor. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 729-742.	4.9	32
21	A Physically Based Analytical Model to Describe Effective Excess Charge for Streaming Potential Generation in Water Saturated Porous Media. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 52-65.	3.4	32
22	A physically based model for the electrical conductivity of water-saturated porous media. <i>Geophysical Journal International</i> , 2019, 219, 866-876.	2.4	31
23	A fractal model for the electrical conductivity of water-saturated porous media during mineral precipitation-dissolution processes. <i>Advances in Water Resources</i> , 2020, 145, 103742.	3.8	31
24	Exploring the Effect of the Pore Size Distribution on the Streaming Potential Generation in Saturated Porous Media, Insight From Pore Network Simulations. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 5315-5335.	3.4	29
25	Impact of small-scale saline tracer heterogeneity on electrical resistivity monitoring in fully and partially saturated porous media: Insights from geoelectrical milli-fluidic experiments. <i>Advances in Water Resources</i> , 2018, 113, 295-309.	3.8	28
26	Determination of the permeability of seepage flow paths in dams from self-potential measurements. <i>Engineering Geology</i> , 2020, 268, 105514.	6.3	28
27	A physical model of the low-frequency electrical polarization of clay rocks. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	27
28	Transpiration and precipitation induced subsurface water flow observed using the self-potential method. <i>Hydrological Processes</i> , 2019, 33, 1784-1801.	2.6	26
29	Variations of petrophysical properties and spectral induced polarization in response to drainage and imbibition: a study on a correlated random tube network. <i>Geophysical Journal International</i> , 2018, 212, 1398-1411.	2.4	24
30	Time-Lapse Seismic and Electrical Monitoring of the Vadose Zone during a Controlled Infiltration Experiment at the Ploemeur Hydrological Observatory, France. <i>Water (Switzerland)</i> , 2020, 12, 1230.	2.7	19
31	Modeling Streaming Potential in Porous and Fractured Media, Description and Benefits of the Effective Excess Charge Density Approach. <i>Springer Geophysics</i> , 2020, , 61-96.	0.9	19
32	Advancing quantitative understanding of self-potential signatures in the critical zone through long-term monitoring. <i>Journal of Hydrology</i> , 2020, 585, 124771.	5.4	16
33	Spectral Induced Polarization Characterization of Non-Consolidated Clays for Varying Salinities: An Experimental Study. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021125.	3.4	16
34	Hydrogeophysical Characterization of a Volcanic Context From Local to Regional Scales Combining Airborne Electromagnetism and Magnetism. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092000.	4.0	15
35	A data mining approach for improved interpretation of ERT inverted sections using the DBSCAN clustering algorithm. <i>Geophysical Journal International</i> , 2021, 225, 1304-1318.	2.4	15
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37	An analytical effective excess charge density model to predict the streaming potential generated by unsaturated flow. <i>Geophysical Journal International</i> , 0, , .	2.4	14
38	Estimating picking errors in near-surface seismic data to enable their time-lapse interpretation of hydrosystems. <i>Near Surface Geophysics</i> , 2018, 16, 613-625.	1.2	14
39	Induced polarization response of porous media with metallic particles – Part 10: Influence of desiccation. <i>Geophysics</i> , 2019, 84, E357-E375.	2.6	14
40	An analytical study of seismoelectric signals produced by 1-D mesoscopic heterogeneities. <i>Geophysical Journal International</i> , 2015, 201, 329-342.	2.4	13
41	Modeling the evolution of complex conductivity during calcite precipitation on glass beads. <i>Geophysical Journal International</i> , 0, , ggx001.	2.4	13
42	Predictive surface complexation model of the calcite-aqueous solution interface: The impact of high concentration and complex composition of brines. <i>Journal of Colloid and Interface Science</i> , 2022, 609, 852-867.	9.4	13
43	A Physically Based Model for the Streaming Potential Coupling Coefficient in Partially Saturated Porous Media. <i>Water (Switzerland)</i> , 2020, 12, 1588.	2.7	11
44	Surface-Wave Dispersion in Partially Saturated Soils: The Role of Capillary Forces. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022074.	3.4	11
45	Feature-preserving interpolation and filtering of environmental time series. <i>Environmental Modelling and Software</i> , 2015, 72, 71-76.	4.5	10
46	An effective excess charge model to describe hysteresis effects on streaming potential. <i>Journal of Hydrology</i> , 2020, 588, 124949.	5.4	10
47	Dynamic permeability functions for partially saturated porous media. <i>Geophysical Journal International</i> , 2020, 221, 1182-1189.	2.4	10
48	A physically based model for the electrical conductivity of partially saturated porous media. <i>Geophysical Journal International</i> , 2020, 223, 993-1006.	2.4	9
49	Electroosmotic Coupling in Porous Media, a New Model Based on a Fractal Upscaling Procedure. <i>Transport in Porous Media</i> , 2020, 134, 249-274.	2.6	8
50	Influence of Pore Size Distribution on the Electrokinetic Coupling Coefficient in Two-Phase Flow Conditions. <i>Water (Switzerland)</i> , 2021, 13, 2316.	2.7	8
51	The Case for Considering Polarization in the Interpretation of Electrical and Electromagnetic Measurements in the 3kHz to 3MHz Frequency Range. <i>Surveys in Geophysics</i> , 2021, 42, 377-397.	4.6	7
52	Predicting the frequency-dependent effective excess charge density: A new upscaling approach for seismoelectric modeling. <i>Geophysics</i> , 2021, 86, WB19-WB28.	2.6	7
53	Geoelectrical Signatures of Reactive Mixing: A Theoretical Assessment. <i>Geophysical Research Letters</i> , 2018, 45, 3489-3498.	4.0	6
54	Predicting Electrokinetic Coupling and Electrical Conductivity in Fractured Media Using a Fractal Distribution of Tortuous Capillary Fractures. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5121.	2.5	6

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55	First Evidence of Correlation Between Evapotranspiration and Gravity at a Daily Time Scale From Two Vertically Spaced Superconducting Gravimeters. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	6
56	Dynamic streaming potential coupling coefficient in porous media with different pore size distributions. <i>Geophysical Journal International</i> , 2022, 229, 720-735.	2.4	5
57	A Fractal Model for Effective Excess Charge Density in Variably Saturated Fractured Rocks. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	4
58	Interpreting Self-Potential Signal during Reactive Transport: Application to Calcite Dissolution and Precipitation. <i>Water (Switzerland)</i> , 2022, 14, 1632.	2.7	4
59	River Corridor Model Constrained by Time-lapse Seismic Acquisition. <i>Water Resources Research</i> , 2021, 57, e2020WR028911.	4.2	3
60	Electrical Signatures of Diffusion-Limited Mixing: Insights from a Milli-fluidic Tracer Experiment. <i>Transport in Porous Media</i> , 0, , 1.	2.6	2
61	New approach to up-scale the frequency-dependent effective excess charge density for seismoelectric modeling. , 2019, , .		2
62	Electrical Resistivity Monitoring of Saline Tracer Fingering at Pore Scale under Partially Saturated Conditions. , 2016, , .		2
63	Integrated Analysis of Geophysical Data Using a Data Mining Approach. , 2019, , .		1
64	EXPLICIT MODELING OF ELECTRODE POLARIZATION TO UNDERSTAND SELF-POTENTIAL LABORATORY DATA UNDER PARTIALLY SATURATED CONDITIONS. , 2013, , .		0