

# Andre Revil

## List of Publications by Year in descending order

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280  
papers

15,381  
citations

14124

69  
h-index

29333

108  
g-index

294  
all docs

294  
docs citations

294  
times ranked

7560  
citing authors

#	ARTICLE	IF	CITATIONS
1	The emergence of hydrogeophysics for improved understanding of subsurface processes over multiple scales. <i>Water Resources Research</i> , 2015, 51, 3837-3866.	1.7	479
2	Permeability of shaly sands. <i>Water Resources Research</i> , 1999, 35, 651-662.	1.7	382
3	Electrical conductivity in shaly sands with geophysical applications. <i>Journal of Geophysical Research</i> , 1998, 103, 23925-23936.	3.3	376
4	Complex conductivity of water-saturated packs of glass beads. <i>Journal of Colloid and Interface Science</i> , 2008, 321, 103-117.	5.0	345
5	Streaming potential in porous media: 1. Theory of the zeta potential. <i>Journal of Geophysical Research</i> , 1999, 104, 20021-20031.	3.3	326
6	Theory of ionic-surface electrical conduction in porous media. <i>Physical Review B</i> , 1997, 55, 1757-1773.	1.1	270
7	Improved hydrogeophysical characterization using joint inversion of cross-hole electrical resistance and ground-penetrating radar traveltime data. <i>Water Resources Research</i> , 2006, 42, .	1.7	270
8	Effective conductivity and permittivity of unsaturated porous materials in the frequency range 1 mHzâ€“1GHz. <i>Water Resources Research</i> , 2013, 49, 306-327.	1.7	263
9	Review: Some low-frequency electrical methods for subsurface characterization and monitoring in hydrogeology. <i>Hydrogeology Journal</i> , 2012, 20, 617-658.	0.9	259
10	An overview of the spectral induced polarization method for nearâ€“surface applications. <i>Near Surface Geophysics</i> , 2012, 10, 453-468.	0.6	233
11	Electrokinetic coupling in unsaturated porous media. <i>Journal of Colloid and Interface Science</i> , 2007, 313, 315-327.	5.0	205
12	Deep Convolutional Encoderâ€“Decoder Networks for Uncertainty Quantification of Dynamic Multiphase Flow in Heterogeneous Media. <i>Water Resources Research</i> , 2019, 55, 703-728.	1.7	201
13	Ionic Diffusivity, Electrical Conductivity, Membrane and Thermoelectric Potentials in Colloids and Granular Porous Media: A Unified Model. <i>Journal of Colloid and Interface Science</i> , 1999, 212, 503-522.	5.0	192
14	Groundwater redox conditions and conductivity in a contaminant plume from geoelectrical investigations. <i>Hydrology and Earth System Sciences</i> , 2004, 8, 8-22.	1.9	188
15	Spectral induced polarization of shaly sands: Influence of the electrical double layer. <i>Water Resources Research</i> , 2012, 48, .	1.7	188
16	Determination of permeability from spectral induced polarization in granular media. <i>Geophysical Journal International</i> , 2010, , .	1.0	184
17	Sulfur, iron-, and calcium cycling associated with natural electric currents running through marine sediment. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 92, 1-13.	1.6	165
18	A mechanistic model for the spectral induced polarization of clay materials. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	162

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19	Relationship between self-potential (SP) signals and redox conditions in contaminated groundwater. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	160
20	Improved hydrogeophysical characterization and monitoring through parallel modeling and inversion of time-domain resistivity and induced-polarization data. <i>Geophysics</i> , 2010, 75, WA27-WA41.	1.4	159
21	Deep Autoregressive Neural Networks for High-Dimensional Inverse Problems in Groundwater Contaminant Source Identification. <i>Water Resources Research</i> , 2019, 55, 3856-3881.	1.7	157
22	Tomography of the Darcy velocity from self-potential measurements. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	156
23	Streaming potentials of granular media: Influence of the Dukhin and Reynolds numbers. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	133
24	Spectral induced polarization of partially saturated clay-rocks: a mechanistic approach. <i>Geophysical Journal International</i> , 2010, 180, 210-224.	1.0	133
25	Pore-scale heterogeneity, energy dissipation and the transport properties of rocks. <i>Geophysical Research Letters</i> , 1995, 22, 1529-1532.	1.5	131
26	Salinity dependence of spectral induced polarization in sands and sandstones. <i>Geophysical Journal International</i> , 2011, 187, 813-824.	1.0	125
27	Self-potential signals associated with pumping tests experiments. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	124
28	Streaming current generation in two-phase flow conditions. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	122
29	Mechanical compaction of sand/clay mixtures. <i>Journal of Geophysical Research</i> , 2002, 107, ECV 11-1-ECV 11-15.	3.3	119
30	Electrical conductivity, induced polarization, and permeability of the Fontainebleau sandstone. <i>Geophysics</i> , 2014, 79, D301-D318.	1.4	119
31	Removal of levofloxacin from aqueous solution using rice-husk and wood-chip biochars. <i>Chemosphere</i> , 2016, 150, 694-701.	4.2	119
32	Influence of oil saturation upon spectral induced polarization of oil-bearing sands. <i>Geophysical Journal International</i> , 2010, 183, 211-224.	1.0	117
33	Electrochemical charge of silica surfaces at high ionic strength in narrow channels. <i>Journal of Colloid and Interface Science</i> , 2010, 343, 381-386.	5.0	116
34	On charge accumulation in heterogeneous porous rocks under the influence of an external electric field. <i>Geophysics</i> , 2013, 78, D271-D291.	1.4	116
35	Influence of surface conductivity on the apparent zeta potential of amorphous silica nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2013, 410, 81-93.	5.0	113
36	Inner structure of La Fossa di Vulcano (Vulcano Island, southern Tyrrhenian Sea, Italy) revealed by high-resolution electric resistivity tomography coupled with self-potential, temperature, and CO <sub>2</sub> diffuse degassing measurements. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	110

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37	Complex conductivity of soils. <i>Water Resources Research</i> , 2017, 53, 7121-7147.	1.7	109
38	Coupled hydromechanical and electromagnetic disturbances in unsaturated porous materials. <i>Water Resources Research</i> , 2013, 49, 744-766.	1.7	107
39	Induced polarization response of porous media with metallic particles " Part 1: A theory for disseminated semiconductors. <i>Geophysics</i> , 2015, 80, D525-D538.	1.4	105
40	Three-dimensional inversion of self-potential data used to constrain the pattern of groundwater flow in geothermal fields. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	103
41	Unified water isotherms for clayey porous materials. <i>Water Resources Research</i> , 2013, 49, 5685-5699.	1.7	103
42	Understanding biogeobatteries: Where geophysics meets microbiology. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	98
43	Thermal conductivity of unconsolidated sediments with geophysical applications. <i>Journal of Geophysical Research</i> , 2000, 105, 16749-16768.	3.3	96
44	Electrical properties of zeolitized volcanoclastic materials. <i>Journal of Geophysical Research</i> , 2002, 107, ECV 3-1.	3.3	96
45	Image-guided inversion of electrical resistivity data. <i>Geophysical Journal International</i> , 2014, 197, 292-309.	1.0	96
46	Derivation of Soil-Specific Streaming Potential Electrical Parameters from Hydrodynamic Characteristics of Partially Saturated Soils. <i>Vadose Zone Journal</i> , 2012, 11, .	1.3	95
47	Geophysical investigations at Stromboli volcano, Italy: implications for ground water flow and paroxysmal activity. <i>Geophysical Journal International</i> , 2004, 157, 426-440.	1.0	92
48	Pervasive pressure-solution transfer: A poro-visco-plastic model. <i>Geophysical Research Letters</i> , 1999, 26, 255-258.	1.5	90
49	Stochastic joint inversion of hydrogeophysical data for salt tracer test monitoring and hydraulic conductivity imaging. <i>Advances in Water Resources</i> , 2013, 52, 62-77.	1.7	90
50	Predicting permeability from the characteristic relaxation time and intrinsic formation factor of complex conductivity spectra. <i>Water Resources Research</i> , 2015, 51, 6672-6700.	1.7	86
51	Streaming potentials in two-phase flow conditions. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	85
52	Seismoelectric response of heavy oil reservoirs: theory and numerical modelling. <i>Geophysical Journal International</i> , 2010, 180, 781-797.	1.0	84
53	A sandbox experiment to investigate bacteria-mediated redox processes on self-potential signals. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	82
54	Hydroelectric coupling in a clayey material. <i>Geophysical Research Letters</i> , 2001, 28, 1643-1646.	1.5	81

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55	Preferential fluid flow pathways in embankment dams imaged by self-potential tomography. Near Surface Geophysics, 2009, 7, 447-462.	0.6	81
56	Spectral induced polarization porosimetry. Geophysical Journal International, 2014, 198, 1016-1033.	1.0	80
57	Time-lapse three-dimensional inversion of complex conductivity data using an active time constrained (ATC) approach. Geophysical Journal International, 2011, 187, 237-251.	1.0	79
58	Saline pulse test monitoring with the self-potential method to nonintrusively determine the velocity of the pore water in leaking areas of earth dams and embankments. Water Resources Research, 2012, 48, .	1.7	79
59	Induced polarization response of porous media with metallic particles " Part 2: Comparison with a broad database of experimental data. Geophysics, 2015, 80, D539-D552.	1.4	79
60	Reconstruction of the Water Table from Self-Potential Data: A Bayesian Approach. Ground Water, 2009, 47, 213-227.	0.7	75
61	Stochastic joint inversion of 2D seismic and seismoelectric signals in linear poroelastic materials: A numerical investigation. Geophysics, 2010, 75, N19-N31.	1.4	75
62	Induced polarization signatures of cations exhibiting differential sorption behaviors in saturated sands. Water Resources Research, 2011, 47, .	1.7	75
63	Constitutive equations for coupled flows in clay materials. Water Resources Research, 2011, 47, .	1.7	75
64	Is it the grain size or the characteristic pore size that controls the induced polarization relaxation time of clean sands and sandstones?. Water Resources Research, 2012, 48, .	1.7	75
65	Bayesian inference of the Cole-Cole parameters from time- and frequency-domain induced polarization. Geophysical Prospecting, 2007, 55, 589-605.	1.0	74
66	The effects of artificial recharge of groundwater on controlling land subsidence and its influence on groundwater quality and aquifer energy storage in Shanghai, China. Environmental Earth Sciences, 2016, 75, 1.	1.3	74
67	Hydrogeology of Stromboli volcano, Aeolian Islands (Italy) from the interpretation of resistivity tomograms, self-potential, soil temperature and soil CO <sub>2</sub> concentration measurements. Geophysical Journal International, 2011, 186, 1078-1094.	1.0	73
68	A double layer model of the gas bubble/water interface. Journal of Colloid and Interface Science, 2012, 388, 243-256.	5.0	73
69	Geophysical Methods for Monitoring Temperature Changes in Shallow Low Enthalpy Geothermal Systems. Energies, 2014, 7, 5083-5118.	1.6	73
70	CEC-normalized clay-water sorption isotherm. Water Resources Research, 2011, 47, .	1.7	71
71	Complex conductivity tensor of anisotropic hydrocarbon-bearing shales and mudrocks. Geophysics, 2013, 78, D403-D418.	1.4	70
72	Tomography of self-potential anomalies of electrochemical nature. Geophysical Research Letters, 2001, 28, 4363-4366.	1.5	68

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73	Mapping electron sources and sinks in a marine biogeobattery. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2014, 119, 1475-1486.	1.3	68
74	Genesis of mud volcanoes in sedimentary basins: A solitary wave-based mechanism. <i>Geophysical Research Letters</i> , 2002, 29, 15-1.	1.5	67
75	Stochastic joint inversion of temperature and self-potential data. <i>Geophysical Journal International</i> , 2009, 179, 640-654.	1.0	67
76	Spectral induced polarization of clay-sand mixtures: Experiments and modeling. <i>Geophysics</i> , 2014, 79, E353-E375.	1.4	67
77	Integration of Adversarial Autoencoders With Residual Dense Convolutional Networks for Estimation of Non-Gaussian Hydraulic Conductivities. <i>Water Resources Research</i> , 2020, 56, e2019WR026082.	1.7	67
78	Grain Shape Effects on Permeability, Formation Factor, and Capillary Pressure from Pore-Scale Modeling. <i>Transport in Porous Media</i> , 2014, 102, 71-90.	1.2	66
79	Changes in induced polarization associated with the sorption of sodium, lead, and zinc on silica sands. <i>Journal of Colloid and Interface Science</i> , 2011, 360, 739-752.	5.0	65
80	Low-frequency complex conductivity of sandy and clayey materials. <i>Journal of Colloid and Interface Science</i> , 2013, 398, 193-209.	5.0	65
81	Streaming electrical potential anomaly along faults in geothermal areas. <i>Geophysical Research Letters</i> , 1998, 25, 3197-3200.	1.5	64
82	Redox potential distribution inferred from self-potential measurements associated with the corrosion of a burden metallic body. <i>Geophysical Prospecting</i> , 2008, 56, 269-282.	1.0	64
83	Interfacial polarization of disseminated conductive minerals in absence of redox-active species " Part 1: Mechanistic model and validation. <i>Geophysics</i> , 2016, 81, E139-E157.	1.4	64
84	Three-Dimensional Electrical Resistivity Tomography of the Solfatara Crater (Italy): Implication for the Multiphase Flow Structure of the Shallow Hydrothermal System. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 8749-8768.	1.4	62
85	Resistivity and self-potential tomography applied to groundwater remediation and contaminant plumes: Sandbox and field experiments. <i>Journal of Hydrology</i> , 2015, 530, 1-14.	2.3	59
86	Influence of oil wettability upon spectral induced polarization of oil-bearing sands. <i>Geophysics</i> , 2011, 76, A31-A36.	1.4	58
87	Retention and transport of graphene oxide in water-saturated limestone media. <i>Chemosphere</i> , 2017, 180, 506-512.	4.2	58
88	Complex conductivity of volcanic rocks and the geophysical mapping of alteration in volcanoes. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 357, 106-127.	0.8	58
89	IP4D: A software for time-lapse 2D/3D DC-resistivity and induced polarization tomography. <i>Computers and Geosciences</i> , 2013, 54, 164-170.	2.0	56
90	4D time-lapse ERT inversion: introducing combined time and space constraints. <i>Near Surface Geophysics</i> , 2014, 12, 25-34.	0.6	56

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91	Thermoelectric self-potential and resistivity data localize the burning front of underground coal fires. <i>Geophysics</i> , 2013, 78, B259-B273.	1.4	55
92	Assessment of parametric uncertainty for groundwater reactive transport modeling. <i>Water Resources Research</i> , 2014, 50, 4416-4439.	1.7	55
93	The volcano-electric effect. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	53
94	Effects of grain size and structural heterogeneity on the transport and retention of nano-TiO <sub>2</sub> in saturated porous media. <i>Science of the Total Environment</i> , 2016, 563-564, 987-995.	3.9	53
95	Three-Dimensional Electrical Conductivity and Induced Polarization Tomography of a Rock Glacier. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 9528-9554.	1.4	53
96	Detection and localization of hydromechanical disturbances in a sandbox using the self-potential method. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	52
97	A new model for the spectral induced polarization signature of bacterial growth in porous media. <i>Water Resources Research</i> , 2012, 48, .	1.7	52
98	The pH dependence of spectral induced polarization of silica sands: Experiment and modeling. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	50
99	Retention and Release of Graphene Oxide in Structured Heterogeneous Porous Media under Saturated and Unsaturated Conditions. <i>Environmental Science &amp; Technology</i> , 2016, 50, 10397-10405.	4.6	49
100	Effects of Drying on the Low-Frequency Electrical Properties of Tournemire Argillites. <i>Pure and Applied Geophysics</i> , 2007, 164, 2043-2066.	0.8	48
101	Self-potential signals generated by the corrosion of buried metallic objects with application to contaminant plumes. <i>Geophysics</i> , 2013, 78, EN65-EN82.	1.4	48
102	Hydraulic conductivity field characterization from the joint inversion of hydraulic heads and self-potential data. <i>Water Resources Research</i> , 2014, 50, 3502-3522.	1.7	48
103	Saturation dependence of the quadrature conductivity of oil-bearing sands. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	47
104	Induced polarization of volcanic rocks " 1. Surface versus quadrature conductivity. <i>Geophysical Journal International</i> , 2017, 208, 826-844.	1.0	47
105	3D electrical conductivity tomography of volcanoes. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 356, 243-263.	0.8	47
106	Pattern of shallow ground water flow at Mount Princeton Hot Springs, Colorado, using geoelectrical methods. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 198, 217-232.	0.8	46
107	Effects of Humic Acid and Solution Chemistry on the Retention and Transport of Cerium Dioxide Nanoparticles in Saturated Porous Media. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	1.1	45
108	Interfacial polarization of disseminated conductive minerals in absence of redox-active species " Part 2: Effective electrical conductivity and dielectric permittivity. <i>Geophysics</i> , 2016, 81, E159-E176.	1.4	45

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109	Large-scale, probabilistic salinity mapping using airborne electromagnetics for groundwater management in Zeeland, the Netherlands. <i>Environmental Research Letters</i> , 2018, 13, 084011.	2.2	44
110	Diffusion of ions in unsaturated porous materials. <i>Journal of Colloid and Interface Science</i> , 2008, 319, 226-235.	5.0	43
111	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.	0.8	43
112	Electric potential source localization reveals a borehole leak during hydraulic fracturing. <i>Geophysics</i> , 2013, 78, D93-D113.	1.4	43
113	Induced polarization response of porous media with metallic particles – Part 4: Detection of metallic and nonmetallic targets in time-domain induced polarization tomography. <i>Geophysics</i> , 2016, 81, D359-D375.	1.4	43
114	Transport of water and ions in partially water-saturated porous media. Part 1. Constitutive equations. <i>Advances in Water Resources</i> , 2017, 103, 119-138.	1.7	43
115	Salinity dependence of the complex surface conductivity of the Portland sandstone. <i>Geophysics</i> , 2016, 81, D125-D140.	1.4	42
116	Characterization of groundwater and surface water mixing in a semiconfined karst aquifer using time-lapse electrical resistivity tomography. <i>Water Resources Research</i> , 2014, 50, 2566-2585.	1.7	41
117	Three-dimensional resistivity tomography of Vulcan's forge, Vulcano Island, southern Italy. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	40
118	Effects of error covariance structure on estimation of model averaging weights and predictive performance. <i>Water Resources Research</i> , 2013, 49, 6029-6047.	1.7	40
119	Localization of a coal seam fire using combined self-potential and resistivity data. <i>International Journal of Coal Geology</i> , 2014, 128-129, 109-118.	1.9	40
120	A Taylor Expansion-Based Adaptive Design Strategy for Global Surrogate Modeling With Applications in Groundwater Modeling. <i>Water Resources Research</i> , 2017, 53, 10802-10823.	1.7	40
121	A case study of resistivity and self-potential signatures of hydrothermal instabilities, Inferno Crater Lake, Waimangu, New Zealand. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	39
122	Dipolar self-potential anomaly associated with carbon dioxide and radon flux at Syabru-Bensi hot springs in central Nepal. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	39
123	SP2DINV: A 2D forward and inverse code for streaming potential problems. <i>Computers and Geosciences</i> , 2013, 59, 9-16.	2.0	39
124	Importance of structural history in the summit area of Stromboli during the 2002–2003 eruptive crisis inferred from temperature, soil CO <sub>2</sub> , self-potential, and electrical resistivity tomography. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 183, 213-227.	0.8	38
125	Electrical burst signature of pore-scale displacements. <i>Water Resources Research</i> , 2009, 45, .	1.7	38
126	Influence of flow velocity and spatial heterogeneity on DNAPL migration in porous media: insights from laboratory experiments and numerical modelling. <i>Hydrogeology Journal</i> , 2015, 23, 1703-1718.	0.9	38



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127	Geophysics at the interface: Response of geophysical properties to solid-fluid, fluid-fluid, and solid-solid interfaces. <i>Reviews of Geophysics</i> , 2010, 48, .	9.0	37
128	Inversion of generalized relaxation time distributions with optimized damping parameter. <i>Journal of Applied Geophysics</i> , 2014, 109, 119-132.	0.9	37
129	Geophysical signatures of disseminated iron minerals: A proxy for understanding subsurface biophysicochemical processes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 1831-1849.	1.3	36
130	Alteration of volcanic rocks: A new non-intrusive indicator based on induced polarization measurements. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 341, 351-362.	0.8	36
131	Transport properties of the Callovo-Oxfordian clay rock under partially saturated conditions. <i>Water Resources Research</i> , 2010, 46, .	1.7	35
132	Stochastic inversion of permeability and dispersivities from time lapse self-potential measurements: A controlled sandbox study. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	35
133	Induced polarization tomography applied to the detection and the monitoring of leaks in embankments. <i>Engineering Geology</i> , 2019, 254, 89-101.	2.9	35
134	Direct estimation of the distribution of relaxation times from induced polarization spectra using a Fourier transform analysis. <i>Near Surface Geophysics</i> , 2012, 10, 517-531.	0.6	34
135	Ionic contribution to the self-potential signals associated with a redox front. <i>Journal of Contaminant Hydrology</i> , 2009, 109, 27-39.	1.6	33
136	High-resolution magnetic susceptibility measurements for investigating magnetic mineral formation during microbial mediated iron reduction. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 80-94.	1.3	33
137	Connecting complex conductivity spectra to mercury porosimetry of sedimentary rocks. <i>Geophysics</i> , 2016, 81, E17-E32.	1.4	33
138	Self-potential signals associated with localized leaks in embankment dams and dikes. <i>Engineering Geology</i> , 2019, 253, 229-239.	2.9	33
139	Improving Simulation Efficiency of MCMC for Inverse Modeling of Hydrologic Systems With a Kalman-Inspired Proposal Distribution. <i>Water Resources Research</i> , 2020, 56, e2019WR025474.	1.7	33
140	Petrophysical properties of saprolites from the Oak Ridge Integrated Field Research Challenge site, Tennessee. <i>Geophysics</i> , 2013, 78, D21-D40.	1.4	32
141	Seismoelectric couplings in a poroelastic material containing two immiscible fluid phases. <i>Geophysical Journal International</i> , 2015, 202, 850-870.	1.0	32
142	Induced polarization response of porous media with metallic particles – Part 3: A new approach to time-domain induced polarization tomography. <i>Geophysics</i> , 2016, 81, D345-D357.	1.4	32
143	Laboratory determination of the complex conductivity tensor of unconventional anisotropic shales. <i>Geophysics</i> , 2014, 79, E183-E200.	1.4	31
144	Induced polarization of volcanic rocks. 2. Influence of pore size and permeability. <i>Geophysical Journal International</i> , 2017, 208, 814-825.	1.0	31

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145	Hydrogeophysical investigations of the former S-3 ponds contaminant plumes, Oak Ridge Integrated Field Research Challenge site, Tennessee. <i>Geophysics</i> , 2013, 78, EN29-EN41.	1.4	30
146	Quantitative assessment of electrical resistivity tomography for monitoring DNAPLs migration – Comparison with high-resolution light transmission visualization in laboratory sandbox. <i>Journal of Hydrology</i> , 2017, 544, 254-266.	2.3	30
147	Constraining fault-zone hydrogeology through integrated hydrological and geoelectrical analysis. <i>Hydrogeology Journal</i> , 2010, 18, 1057-1067.	0.9	29
148	Joint inversion of steady-state hydrologic and self-potential data for 3D hydraulic conductivity distribution at the Boise Hydrogeophysical Research Site. <i>Journal of Hydrology</i> , 2011, 407, 115-128.	2.3	29
149	Joint inversion of hydraulic head and self-potential data associated with harmonic pumping tests. <i>Water Resources Research</i> , 2016, 52, 6769-6791.	1.7	29
150	Specific storage and hydraulic conductivity tomography through the joint inversion of hydraulic heads and self-potential data. <i>Advances in Water Resources</i> , 2016, 89, 80-90.	1.7	29
151	Time-lapse joint inversion of crosswell DC resistivity and seismic data: A numerical investigation. <i>Geophysics</i> , 2012, 77, D141-D157.	1.4	28
152	Pore-scale modeling of electrical resistivity and permeability in FIB-SEM images of organic mudrock. <i>Geophysics</i> , 2014, 79, D289-D299.	1.4	28
153	Measurements of elastic and electrical properties of an unconventional organic shale under differential loading. <i>Geophysics</i> , 2015, 80, D363-D383.	1.4	28
154	Determination of the permeability of seepage flow paths in dams from self-potential measurements. <i>Engineering Geology</i> , 2020, 268, 105514.	2.9	28
155	A physical model of the low-frequency electrical polarization of clay rocks. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	27
156	Evidence that bio-metallic mineral precipitation enhances the complex conductivity response at a hydrocarbon contaminated site. <i>Journal of Applied Geophysics</i> , 2013, 98, 113-123.	0.9	27
157	Coupled hydrogeophysical inversion to identify non-Gaussian hydraulic conductivity field by jointly assimilating geochemical and time-lapse geophysical data. <i>Journal of Hydrology</i> , 2019, 578, 124092.	2.3	27
158	Hydrogeophysical Characterization of Nonstationary DNAPL Source Zones by Integrating a Convolutional Variational Autoencoder and Ensemble Smoother. <i>Water Resources Research</i> , 2021, 57, e2020WR028538.	1.7	27
159	Localization and characterization of cracks in clay-rocks using frequency and time-domain induced polarization. <i>Geophysical Prospecting</i> , 2013, 61, 134-152.	1.0	26
160	Coupled hydrogeophysical inversion of DNAPL source zone architecture and permeability field in a 3D heterogeneous sandbox by assimilation time-lapse cross-borehole electrical resistivity data via ensemble Kalman filtering. <i>Journal of Hydrology</i> , 2018, 567, 149-164.	2.3	26
161	Three-dimensional modeling of frequency- and time-domain electromagnetic methods with induced polarization effects. <i>Computers and Geosciences</i> , 2019, 124, 85-92.	2.0	26
162	Magnetic susceptibility as a proxy for investigating microbially mediated iron reduction. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	25

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163	Textural control on the quadrature conductivity of porous media. <i>Geophysics</i> , 2016, 81, E297-E309.	1.4	25
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