

Andre Revil

List of Publications by Year in descending order

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Version: 2024-02-01

280
papers

15,381
citations

12330

69
h-index

25787

108
g-index

294
all docs

294
docs citations

294
times ranked

6712
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. | 4.2 | 479 |
| 2 | Permeability of shaly sands. <i>Water Resources Research</i> , 1999, 35, 651-662. | 4.2 | 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. | 9.4 | 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. | 3.2 | 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, . | 4.2 | 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. | 4.2 | 263 |
| 9 | Review: Some low-frequency electrical methods for subsurface characterization and monitoring in hydrogeology. <i>Hydrogeology Journal</i> , 2012, 20, 617-658. | 2.1 | 259 |
| 10 | An overview of the spectral induced polarization method for nearâ€“surface applications. <i>Near Surface Geophysics</i> , 2012, 10, 453-468. | 1.2 | 233 |
| 11 | Electrokinetic coupling in unsaturated porous media. <i>Journal of Colloid and Interface Science</i> , 2007, 313, 315-327. | 9.4 | 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. | 4.2 | 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. | 9.4 | 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. | 4.9 | 188 |
| 15 | Spectral induced polarization of shaly sands: Influence of the electrical double layer. <i>Water Resources Research</i> , 2012, 48, . | 4.2 | 188 |
| 16 | Determination of permeability from spectral induced polarization in granular media. <i>Geophysical Journal International</i> , 2010, , . | 2.4 | 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. | 3.9 | 165 |
| 18 | A mechanistic model for the spectral induced polarization of clay materials. <i>Journal of Geophysical Research</i> , 2009, 114, . | 3.3 | 162 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Relationship between self-potential (SP) signals and redox conditions in contaminated groundwater. <i>Geophysical Research Letters</i> , 2003, 30, . | 4.0 | 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. | 2.6 | 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. | 4.2 | 157 |
| 22 | Tomography of the Darcy velocity from self-potential measurements. <i>Geophysical Research Letters</i> , 2007, 34, . | 4.0 | 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. | 2.4 | 133 |
| 25 | Pore-scale heterogeneity, energy dissipation and the transport properties of rocks. <i>Geophysical Research Letters</i> , 1995, 22, 1529-1532. | 4.0 | 131 |
| 26 | Salinity dependence of spectral induced polarization in sands and sandstones. <i>Geophysical Journal International</i> , 2011, 187, 813-824. | 2.4 | 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, . | 4.0 | 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. | 2.6 | 119 |
| 31 | Removal of levofloxacin from aqueous solution using rice-husk and wood-chip biochars. <i>Chemosphere</i> , 2016, 150, 694-701. | 8.2 | 119 |
| 32 | Influence of oil saturation upon spectral induced polarization of oil-bearing sands. <i>Geophysical Journal International</i> , 2010, 183, 211-224. | 2.4 | 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. | 9.4 | 116 |
| 34 | On charge accumulation in heterogeneous porous rocks under the influence of an external electric field. <i>Geophysics</i> , 2013, 78, D271-D291. | 2.6 | 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. | 9.4 | 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 ₂ diffuse degassing measurements. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 110 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Complex conductivity of soils. <i>Water Resources Research</i> , 2017, 53, 7121-7147. | 4.2 | 109 |
| 38 | Coupled hydromechanical and electromagnetic disturbances in unsaturated porous materials. <i>Water Resources Research</i> , 2013, 49, 744-766. | 4.2 | 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. | 2.6 | 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. | 4.2 | 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. | 2.4 | 96 |
| 46 | 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 |
| 47 | Geophysical investigations at Stromboli volcano, Italy: implications for ground water flow and paroxysmal activity. <i>Geophysical Journal International</i> , 2004, 157, 426-440. | 2.4 | 92 |
| 48 | Pervasive pressure-solution transfer: A poro-visco-plastic model. <i>Geophysical Research Letters</i> , 1999, 26, 255-258. | 4.0 | 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. | 3.8 | 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. | 4.2 | 86 |
| 51 | Streaming potentials in two-phase flow conditions. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a. | 4.0 | 85 |
| 52 | Seismoelectric response of heavy oil reservoirs: theory and numerical modelling. <i>Geophysical Journal International</i> , 2010, 180, 781-797. | 2.4 | 84 |
| 53 | A sandbox experiment to investigate bacteria-mediated redox processes on self-potential signals. <i>Geophysical Research Letters</i> , 2005, 32, . | 4.0 | 82 |
| 54 | Hydroelectric coupling in a clayey material. <i>Geophysical Research Letters</i> , 2001, 28, 1643-1646. | 4.0 | 81 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Preferential fluid flow pathways in embankment dams imaged by self-potential tomography. Near Surface Geophysics, 2009, 7, 447-462. | 1.2 | 81 |
| 56 | Spectral induced polarization porosimetry. Geophysical Journal International, 2014, 198, 1016-1033. | 2.4 | 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. | 2.4 | 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, . | 4.2 | 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. | 2.6 | 79 |
| 60 | Reconstruction of the Water Table from Self-Potential Data: A Bayesian Approach. Ground Water, 2009, 47, 213-227. | 1.3 | 75 |
| 61 | Stochastic joint inversion of 2D seismic and seismoelectric signals in linear poroelastic materials: A numerical investigation. Geophysics, 2010, 75, N19-N31. | 2.6 | 75 |
| 62 | Induced polarization signatures of cations exhibiting differential sorption behaviors in saturated sands. Water Resources Research, 2011, 47, . | 4.2 | 75 |
| 63 | Constitutive equations for coupled flows in clay materials. Water Resources Research, 2011, 47, . | 4.2 | 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, . | 4.2 | 75 |
| 65 | Bayesian inference of the Cole-Cole parameters from time- and frequency-domain induced polarization. Geophysical Prospecting, 2007, 55, 589-605. | 1.9 | 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. | 2.7 | 74 |
| 67 | Hydrogeology of Stromboli volcano, Aeolian Islands (Italy) from the interpretation of resistivity tomograms, self-potential, soil temperature and soil CO ₂ concentration measurements. Geophysical Journal International, 2011, 186, 1078-1094. | 2.4 | 73 |
| 68 | A double layer model of the gas bubble/water interface. Journal of Colloid and Interface Science, 2012, 388, 243-256. | 9.4 | 73 |
| 69 | Geophysical Methods for Monitoring Temperature Changes in Shallow Low Enthalpy Geothermal Systems. Energies, 2014, 7, 5083-5118. | 3.1 | 73 |
| 70 | CEC-normalized clay-water sorption isotherm. Water Resources Research, 2011, 47, . | 4.2 | 71 |
| 71 | Complex conductivity tensor of anisotropic hydrocarbon-bearing shales and mudrocks. Geophysics, 2013, 78, D403-D418. | 2.6 | 70 |
| 72 | Tomography of self-potential anomalies of electrochemical nature. Geophysical Research Letters, 2001, 28, 4363-4366. | 4.0 | 68 |

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|----|--|-----|-----------|
| 73 | Mapping electron sources and sinks in a marine biogeobattery. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 1475-1486. | 3.0 | 68 |
| 74 | Genesis of mud volcanoes in sedimentary basins: A solitary wave-based mechanism. <i>Geophysical Research Letters</i> , 2002, 29, 15-1. | 4.0 | 67 |
| 75 | Stochastic joint inversion of temperature and self-potential data. <i>Geophysical Journal International</i> , 2009, 179, 640-654. | 2.4 | 67 |
| 76 | Spectral induced polarization of clay-sand mixtures: Experiments and modeling. <i>Geophysics</i> , 2014, 79, E353-E375. | 2.6 | 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. | 4.2 | 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. | 2.6 | 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. | 9.4 | 65 |
| 80 | Low-frequency complex conductivity of sandy and clayey materials. <i>Journal of Colloid and Interface Science</i> , 2013, 398, 193-209. | 9.4 | 65 |
| 81 | Streaming electrical potential anomaly along faults in geothermal areas. <i>Geophysical Research Letters</i> , 1998, 25, 3197-3200. | 4.0 | 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. | 1.9 | 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. | 2.6 | 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. | 3.4 | 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. | 5.4 | 59 |
| 86 | Influence of oil wettability upon spectral induced polarization of oil-bearing sands. <i>Geophysics</i> , 2011, 76, A31-A36. | 2.6 | 58 |
| 87 | Retention and transport of graphene oxide in water-saturated limestone media. <i>Chemosphere</i> , 2017, 180, 506-512. | 8.2 | 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. | 2.1 | 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. | 4.2 | 56 |
| 90 | 4D time-lapse ERT inversion: introducing combined time and space constraints. <i>Near Surface Geophysics</i> , 2014, 12, 25-34. | 1.2 | 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. | 2.6 | 55 |
| 92 | Assessment of parametric uncertainty for groundwater reactive transport modeling. <i>Water Resources Research</i> , 2014, 50, 4416-4439. | 4.2 | 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 ₂ in saturated porous media. <i>Science of the Total Environment</i> , 2016, 563-564, 987-995. | 8.0 | 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. | 3.4 | 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, . | 4.2 | 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. | 4.0 | 50 |
| 99 | Retention and Release of Graphene Oxide in Structured Heterogeneous Porous Media under Saturated and Unsaturated Conditions. <i>Environmental Science & Technology</i> , 2016, 50, 10397-10405. | 10.0 | 49 |
| 100 | Effects of Drying on the Low-Frequency Electrical Properties of Tournemire Argillites. <i>Pure and Applied Geophysics</i> , 2007, 164, 2043-2066. | 1.9 | 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. | 2.6 | 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. | 4.2 | 48 |
| 103 | Saturation dependence of the quadrature conductivity of oil-bearing sands. <i>Geophysical Research Letters</i> , 2012, 39, . | 4.0 | 47 |
| 104 | Induced polarization of volcanic rocks " 1. Surface versus quadrature conductivity. <i>Geophysical Journal International</i> , 2017, 208, 826-844. | 2.4 | 47 |
| 105 | 3D electrical conductivity tomography of volcanoes. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 356, 243-263. | 2.1 | 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. | 2.1 | 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. | 2.4 | 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. | 2.6 | 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. | 5.2 | 44 |
| 110 | Diffusion of ions in unsaturated porous materials. <i>Journal of Colloid and Interface Science</i> , 2008, 319, 226-235. | 9.4 | 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. | 1.9 | 43 |
| 112 | Electric potential source localization reveals a borehole leak during hydraulic fracturing. <i>Geophysics</i> , 2013, 78, D93-D113. | 2.6 | 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. | 2.6 | 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. | 3.8 | 43 |
| 115 | Salinity dependence of the complex surface conductivity of the Portland sandstone. <i>Geophysics</i> , 2016, 81, D125-D140. | 2.6 | 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. | 4.2 | 41 |
| 117 | Three-dimensional resistivity tomography of Vulcan's forge, Vulcano Island, southern Italy. <i>Geophysical Research Letters</i> , 2010, 37, . | 4.0 | 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. | 4.2 | 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. | 5.0 | 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. | 4.2 | 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, . | 4.0 | 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. | 4.2 | 39 |
| 124 | Importance of structural history in the summit area of Stromboli during the 2002–2003 eruptive crisis inferred from temperature, soil CO ₂ , self-potential, and electrical resistivity tomography. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 183, 213-227. | 2.1 | 38 |
| 125 | Electrical burst signature of pore-scale displacements. <i>Water Resources Research</i> , 2009, 45, . | 4.2 | 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. | 2.1 | 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, . | 23.0 | 37 |
| 128 | Inversion of generalized relaxation time distributions with optimized damping parameter. <i>Journal of Applied Geophysics</i> , 2014, 109, 119-132. | 2.1 | 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. | 3.0 | 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. | 2.1 | 36 |
| 131 | Transport properties of the Callovo-Oxfordian clay rock under partially saturated conditions. <i>Water Resources Research</i> , 2010, 46, . | 4.2 | 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, . | 4.0 | 35 |
| 133 | Induced polarization tomography applied to the detection and the monitoring of leaks in embankments. <i>Engineering Geology</i> , 2019, 254, 89-101. | 6.3 | 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. | 1.2 | 34 |
| 135 | Ionic contribution to the self-potential signals associated with a redox front. <i>Journal of Contaminant Hydrology</i> , 2009, 109, 27-39. | 3.3 | 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. | 3.0 | 33 |
| 137 | Connecting complex conductivity spectra to mercury porosimetry of sedimentary rocks. <i>Geophysics</i> , 2016, 81, E17-E32. | 2.6 | 33 |
| 138 | Self-potential signals associated with localized leaks in embankment dams and dikes. <i>Engineering Geology</i> , 2019, 253, 229-239. | 6.3 | 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. | 4.2 | 33 |
| 140 | Petrophysical properties of saprolites from the Oak Ridge Integrated Field Research Challenge site, Tennessee. <i>Geophysics</i> , 2013, 78, D21-D40. | 2.6 | 32 |
| 141 | Seismoelectric couplings in a poroelastic material containing two immiscible fluid phases. <i>Geophysical Journal International</i> , 2015, 202, 850-870. | 2.4 | 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. | 2.6 | 32 |
| 143 | Laboratory determination of the complex conductivity tensor of unconventional anisotropic shales. <i>Geophysics</i> , 2014, 79, E183-E200. | 2.6 | 31 |
| 144 | Induced polarization of volcanic rocks. 2. Influence of pore size and permeability. <i>Geophysical Journal International</i> , 2017, 208, 814-825. | 2.4 | 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. | 2.6 | 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. | 5.4 | 30 |
| 147 | Constraining fault-zone hydrogeology through integrated hydrological and geoelectrical analysis. <i>Hydrogeology Journal</i> , 2010, 18, 1057-1067. | 2.1 | 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. | 5.4 | 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. | 4.2 | 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. | 3.8 | 29 |
| 151 | Time-lapse joint inversion of crosswell DC resistivity and seismic data: A numerical investigation. <i>Geophysics</i> , 2012, 77, D141-D157. | 2.6 | 28 |
| 152 | Pore-scale modeling of electrical resistivity and permeability in FIB-SEM images of organic mudrock. <i>Geophysics</i> , 2014, 79, D289-D299. | 2.6 | 28 |
| 153 | Measurements of elastic and electrical properties of an unconventional organic shale under differential loading. <i>Geophysics</i> , 2015, 80, D363-D383. | 2.6 | 28 |
| 154 | Determination of the permeability of seepage flow paths in dams from self-potential measurements. <i>Engineering Geology</i> , 2020, 268, 105514. | 6.3 | 28 |
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