

# Nicolas Florsch

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

900  
citations

430874

18  
h-index

454955

30  
g-index

32  
all docs

32  
docs citations

32  
times ranked

738  
citing authors

#	ARTICLE	IF	CITATIONS
1	Induced polarization response of porous media with metallic particles â€” Part 1: A theory for disseminated semiconductors. <i>Geophysics</i> , 2015, 80, D525-D538.	2.6	105
2	Induced polarization response of porous media with metallic particles â€” Part 2: Comparison with a broad database of experimental data. <i>Geophysics</i> , 2015, 80, D539-D552.	2.6	79
3	Spectral induced polarization of clay-sand mixtures: Experiments and modeling. <i>Geophysics</i> , 2014, 79, E353-E375.	2.6	67
4	Local and global hydrological contributions to gravity variations observed in Strasbourg. <i>Journal of Geodynamics</i> , 2009, 48, 189-194.	1.6	56
5	Quantification of slag heap volumes and masses through the use of induced polarization: application to the Castel-Minier site. <i>Journal of Archaeological Science</i> , 2011, 38, 438-451.	2.4	56
6	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
7	The indirect impact of encroaching trees on gully extension: A 64year study in a sub-humid grassland of South Africa. <i>Catena</i> , 2012, 98, 110-119.	5.0	46
8	Modelling atmospheric and induced non-tidal oceanic loading contributions to surface gravity and tilt measurements. <i>Journal of Geodynamics</i> , 2009, 48, 182-188.	1.6	40
9	Bayesian estimation of the free core nutation parameters from the analysis of precise tidal gravity data. <i>Physics of the Earth and Planetary Interiors</i> , 2000, 117, 21-35.	1.9	37
10	Inversion of generalized relaxation time distributions with optimized damping parameter. <i>Journal of Applied Geophysics</i> , 2014, 109, 119-132.	2.1	37
11	Estimation of the Free Core Nutation parameters from SG data: Sensitivity study and comparative analysis using linearized least-squares and Bayesian methods. <i>Journal of Geodynamics</i> , 2009, 48, 331-339.	1.6	31
12	Tilt and strain deformation induced by hydrologically active natural fractures: application to the tiltmeters installed in Sainte-Croix-aux-Mines observatory (France). <i>Geophysical Journal International</i> , 2009, 178, 667-677.	2.4	30
13	A simple method to retrieve the complex eigenfrequency of the Earth's nearly diurnal-free wobble; application to the Strasbourg superconducting gravimeter data. <i>Geophysical Journal International</i> , 1994, 116, 53-63.	2.4	28
14	Non-linear oceanic tides observed by superconducting gravimeters in Europe. <i>Journal of Geodynamics</i> , 2004, 38, 391-405.	1.6	25
15	CR1Dinv: A Matlab program to invert 1D spectral induced polarization data for the Coleâ€”Cole model including electromagnetic effects. <i>Computers and Geosciences</i> , 2009, 35, 255-266.	4.2	24
16	Induced polarization response of porous media with metallic particles â€” Part 7: Detection and quantification of buried slag heaps. <i>Geophysics</i> , 2018, 83, E277-E291.	2.6	24
17	Assessing the high frequency behavior of non-polarizable electrodes for spectral induced polarization measurements. <i>Journal of Applied Geophysics</i> , 2016, 135, 449-455.	2.1	21
18	The search for weak harmonic signals in a spectrum with application to gravity data. <i>Physics of the Earth and Planetary Interiors</i> , 1995, 90, 197-210.	1.9	19

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19	Modelling of Maxwell-Wagner induced polarisation amplitude for clayey materials. <i>Journal of Applied Geophysics</i> , 2009, 67, 109-113.	2.1	19
20	Upscaling of spectral induced polarization response using random tube networks. <i>Geophysical Journal International</i> , 2017, 209, 948-960.	2.4	19
21	Spectral induced polarization in a sandy medium containing semiconductor materials: experimental results and numerical modelling of the polarization mechanism. <i>Near Surface Geophysics</i> , 2017, 15, 669-683.	1.2	19
22	Validation of long-period oceanic tidal models with superconducting gravimeters. <i>Journal of Geodynamics</i> , 2006, 41, 112-118.	1.6	13
23	Multi-technique monitoring of ocean tide loading in northern France. <i>Comptes Rendus - Geoscience</i> , 2008, 340, 379-389.	1.2	12
24	Development of an adaptive multi-method algorithm for automatic picking of first arrival times: application to near surface seismic data. <i>Near Surface Geophysics</i> , 2018, 16, 507-526.	1.2	12
25	Soil clay influences <i>Acacia</i> encroachment in a South African grassland. <i>Ecohydrology</i> , 2014, 7, 1474-1484.	2.4	11
26	Neotectonics and current hydrologically-induced karst deformation. Case study of the Plateau de Calern (Alpes-Maritimes, France). <i>Geodynamica Acta</i> , 2010, 23, 49-64.	2.2	7
27	A rapid electrical sounding method. <i>Journal of Applied Geophysics</i> , 2001, 47, 83-96.	2.1	5
28	Oceanic loading monitored by ground-based tiltmeters at Cherbourg (France). <i>Journal of Geodynamics</i> , 2009, 48, 211-218.	1.6	2
29	Water uptake plasticity of savanna trees in encroached grassland: small trees match the mature trees. <i>African Journal of Range and Forage Science</i> , 2021, 38, 231-243.	1.4	2
30	Underground ancient mine work ventilation modeling. <i>Journal of Archaeological Science: Reports</i> , 2021, 37, 102805.	0.5	1
31	Magnetic Prospection of the Pre-Columbian Archaeological Site of El Caño in the cultural region of Gran Coclé, Panama. <i>Archaeological Prospection</i> , 2014, 21, 201-211.	2.2	0