Georgios P Tsoflias

List of Publications by Year
in descending order

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48	741	567281 15	526287 27
papers	citations	h-index	g-index

48	48	48	649
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Application of the multiaxial perfectly matched layer (M-PML) to near-surface seismic modeling with Rayleigh waves. Geophysics, 2011, 76, T43-T52.	2.6	84
2	An improved vacuum formulation for 2D finite-difference modeling of Rayleigh waves including surface topography and internal discontinuities. Geophysics, 2012, 77, T1-T9.	2.6	71
3	Monitoring pumping test response in a fractured aquifer using ground-penetrating radar. Water Resources Research, 2001, 37, 1221-1229.	4.2	68
4	Vertical fracture detection by exploiting the polarization properties of groundâ€penetrating radar signals. Geophysics, 2004, 69, 803-810.	2.6	68
5	Ground-penetrating-radar response to fracture-fluid salinity: Why lower frequencies are favorable for resolving salinity changes. Geophysics, 2008, 73, J25-J30.	2.6	52
6	Assessing fault displacement and off-fault deformation in an extensional tectonic setting using 3-D ground-penetrating radar imaging. Journal of Applied Geophysics, 2009, 68, 9-16.	2.1	42
7	Investigating multi-polarization GPR wave transmission through thin layers: Implications for vertical fracture characterization. Geophysical Research Letters, 2006, 33, .	4.0	33
8	Feasibility of waveform inversion of Rayleigh waves for shallow shear-wave velocity using a genetic algorithm. Journal of Applied Geophysics, 2011, 75, 648-655.	2.1	33
9	Numerical investigation of MASW applications in presence of surface topography. Journal of Applied Geophysics, 2012, 84, 52-60.	2.1	31
10	Shear-wave anisotropy reveals pore fluid pressureâ€“induced seismicity in the U.S. midcontinent. Science Advances, 2017, 3, e1700443.	10.3	28
11	High-resolution ultra-shallow subsurface imaging by integrating near-surface seismic reflection and ground-penetrating radar data in the depth domain. Journal of Applied Geophysics, 2007, 62, 281-286.	2.1	27
12	Comparing fluxâ€averaged and resident concentration in a fractured bedrock using ground penetrating radar. Water Resources Research, 2010, 46, .	4.2	27
13	Evaluation of inert tracers in a bedrock fracture using ground penetrating radar and thermal sensors. Geothermics, 2017, 67, 86-94.	3.4	26
14	Cross-polarized GPR imaging of fracture flow channeling. Journal of Earth Science (Wuhan, China), 2015, 26, 776-784.	3.2	20
15	Detection of near-surface cavities by generalized S-transform of Rayleigh waves. Journal of Applied Geophysics, 2016, 129, 53-65.	2.1	19
16	Automatic deployment of a 2-D geophone array for efficient ultra-shallow seismic imaging. Geophysical Research Letters, 2006, 33, .	4.0	14
17	Distribution of preferred ice crystal orientation determined from seismic anisotropy: Evidence from Jakobshavn IsbrÃ¦ and the North Greenland Eemian Ice Drilling facility, Greenland. Geophysics, 2016, 81, WA111-WA118.	2.6	11
18	Field GPR monitoring of biostimulation in saturated porous media. Journal of Applied Geophysics, 2012, 78, 102-112.	2.1	9

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19	A borehole multifrequency acoustic wave system for karst detection near piles. Journal of Applied Geophysics, 2020, 177, 104051.	2.1	7
20	Fixed-source and fixed-receiver walkaway seismic noise tests: A field comparison. Geophysics, 2006, 71, W41-W44.	2.6	6
21	GPR imaging of dual-porosity rocks: Insights to fluid flow. The Leading Edge, 2008, 27, 1436-1445.	0.7	6
22	Ultraâ€shallow seismic imaging of the top of the saturated zone. Geophysical Research Letters, 2010, 37, .	4.0	6
23	Detection of karst cavity beneath cast-in-place pile using the instantaneous phase difference of two receiver recordings. Geophysics, 2021, 86, EN27-EN38.	2.6	6
24	Enhancing the vibroseis technique through equipment noise reduction and optimizing the weighted sum signal. , 2005, , .		6
25	Shallow seismic AVO variations related to partial water saturation during a pumping test. Geophysical Research Letters, 2007, 34, .	4.0	5
26	Ultraâ€shallow imaging using 3D seismicâ€reflection methods. Near Surface Geophysics, 2009, 7, 307-314.	1.2	5
27	Investigation of Geological Anomalies at Pile Foundation Location in Urban Karst Areas Using Single Borehole Radar. Geosciences (Switzerland), 2020, 10, 232.	2.2	5
28	Detection of karst voids at pile foundation by full-waveform inversion of single borehole sonic data. Soil Dynamics and Earthquake Engineering, 2022, 152, 107048.	3.8	5
29	Common cyclicities in the seismicity and water level fluctuations at the charlevoix seismic zone on the St Lawrence River, Quebec, Canada. Journal of Geodynamics, 1995, 19, 117-139.	1.6	3
30	Modeling results on detectability of shallow tunnels using Rayleighâ€wave diffraction. , 2009, , .		3
31	Bone permittivity and its effect on using ground-penetrating radar. Geophysics, 2018, 83, H1-H11.	2.6	3
32	Automated geophone deployment on pavement for high resolution seismic reflection investigations in support of transportation infrastructure projects. , 2009, , .		2
33	Combining nearâ€surface seismic reflection and groundâ€penetrating radar data in the depth domain. , 2005, , .		2
34	Seismic monitoring of CO2-EOR operations in the Texas Panhandle and southern Kansas using surface seismometers. , 2019, , .		2
35	Designing monitoring networks for local earthquakes. Journal of Geophysics and Engineering, 2022, 19, 75-84.	1.4	2
36	Evaluating the effect of the joining platform on seismic data acquired by geophones mounted to rigid media. Journal of Applied Geophysics, 2009, 68, 146-150.	2.1	1

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37	The 3D Autojuggie: automating acquisition of 3D nearâ€surface seismic reflection data. Near Surface Geophysics, 2017, 15, 3-11.	1.2	1
38	Identifying Direct SP-Converted Waves Constrains Local Induced Earthquake Depths. Seismological Research Letters, 0, , .	1.9	1
39	Ground-penetrating radar survey for detecting paleostratigraphic features in ash beds at Ashfall Fossil Bed Historical State Park, Nebraska. , 2020, , .		1
40	Automating the acquisition of 3D nearâ€surface seismic reflection data. , 2009, , .		0
41	3â€Ð design for a nearâ€surface seismic reflection investigation. , 2010, , .		0
42	GPR imaging of prehistoric animal remains in volcanic ash. , 2021, , .		0
43	An example of automated 3D ultraâ€shallow seismic acquisition. , 2006, , .		0
44	Seismic AVO variations related to partial water saturation during a pumping test. , 2007, , .		0
45	Multifrequency investigation of GPR amplitude and phase response to fracture fluid salinity. , 2007, , .		0
46	Efficient tunnel detection with waveform inversion of back-scattered surface waves. , 2019, , .		0
47	Detection of Karst cavity beneath cast-in-place pile based on instantaneous phase analysis. , 2019, , .		0
48	GPR data imaging and interpretation â€" Introduction. Geophysics, 0, , 1-2.	2.6	0