

Giulio Vignoli

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,103
citations

430874

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414414

32
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49
all docs

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docs citations

49
times ranked

782
citing authors

#	ARTICLE	IF	CITATIONS
1	Laterally constrained inversion (LCI) of multi-configuration EMI data with tunable sharpness. Journal of Applied Geophysics, 2022, 196, 104519.	2.1	9
2	Sparse laterally constrained inversion of surface-wave dispersion curves via minimum gradient support regularization. Geophysics, 2022, 87, R281-R289.	2.6	7
3	Assessment of Distributed Acoustic Sensing (DAS) performance for geotechnical applications. Engineering Geology, 2022, 306, 106729.	6.3	5
4	Reconstruction, with tunable sparsity levels, of shear wave velocity profiles from surface wave data. Geophysical Journal International, 2021, 225, 1935-1951.	2.4	16
5	1D Stochastic Inversion of Airborne Time-Domain Electromagnetic Data with Realistic Prior and Accounting for the Forward Modeling Error. Remote Sensing, 2021, 13, 3881.	4.0	11
6	(Quasi-)Real-Time Inversion of Airborne Time-Domain Electromagnetic Data via Artificial Neural Network. Remote Sensing, 2020, 12, 3440.	4.0	31
7	Inversion of Multiconfiguration Complex EMI Data with Minimum Gradient Support Regularization: A Case Study. Mathematical Geosciences, 2020, 52, 945-970.	2.4	15
8	New regional stratigraphic insights from a 3D geological model of the Nasia sub-basin, Ghana, developed for hydrogeological purposes and based on reprocessed B-field data originally collected for mineral exploration. Solid Earth, 2020, 11, 349-361.	2.8	14
9	Ground-based remote sensing of the shallow subsurface: Geophysical methods for environmental applications. Developments in Earth Surface Processes, 2020, , 55-89.	2.8	3
10	Geophysical and Remote Sensing Techniques for Evaluating Historical Stratigraphy and Assessing the Conservation Status of Defensive Structures Heritage: Preliminary Results from the Military Buildings at San Filippo Bastion, Cagliari, Italy. Lecture Notes in Computer Science, 2020, , 944-959.	1.3	5
11	Geophysical Modelling of a Sedimentary Portion of the White Volta Basin (Ghana). Lecture Notes in Computer Science, 2020, , 891-902.	1.3	0
12	Towards the Definition of a Low-Cost Toolbox for Qualitative Inspection of Painted Historical Vaults by Means of Modified DSLR Cameras, Open Source Programs and Signal Processing Techniques. Lecture Notes in Computer Science, 2020, , 971-991.	1.3	4
13	Smooth and Sparse Inversion of EMI Data from Multi-Configuration Measurements. , 2018, , .		4
14	Non-destructive Diagnostics of Architectonic Elements in San Giuseppe Calasanzio's Church in Cagliari: a Test-case for Micro-geophysical Methods within the Framework of Holistic/integrated Protocols for Artefact Knowledge.. , 2018, , .		11
15	Deepening the knowledge of military architecture in an urban context through digital representations integrated with geophysical surveys. The city walls of Cagliari (Italy).. , 2018, , .		7
16	Calibrating electromagnetic induction conductivities with time-domain reflectometry measurements. Hydrology and Earth System Sciences, 2018, 22, 1509-1523.	4.9	27
17	Regional flow in a complex coastal aquifer system: Combining voxel geological modelling with regularized calibration. Journal of Hydrology, 2018, 562, 544-563.	5.4	21
18	3D TRAINING IMAGE DEVELOPMENT AND CONDITIONING STRATEGIES FOR MULTIPLE-POINT STATISTICAL SIMULATIONS. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
19	Examples of Improved Inversion of Different Airborne Electromagnetic Datasets Via Sharp Regularization. <i>Journal of Environmental and Engineering Geophysics</i> , 2017, 22, 51-61.	0.5	32
20	Multiple-point statistical simulation for hydrogeological models: 3-D training image development and conditioning strategies. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 6069-6089.	4.9	31
21	Frequency-dependent multi-offset phase analysis of surface waves: an example of high-resolution characterization of a riparian aquifer. <i>Geophysical Prospecting</i> , 2016, 64, 102-111.	1.9	20
22	An efficient hybrid scheme for fast and accurate inversion of airborne transient electromagnetic data. <i>Exploration Geophysics</i> , 2016, 47, 323-330.	1.1	16
23	Generalized focusing of time-lapse changes with applications to direct current and time-domain induced polarization inversions. <i>Geophysical Journal International</i> , 2015, 203, 1101-1112.	2.4	42
24	Sharp spatially constrained inversion with applications to transient electromagnetic data. <i>Geophysical Prospecting</i> , 2015, 63, 243-255.	1.9	86
25	An overview of a highly versatile forward and stable inverse algorithm for airborne, ground-based and borehole electromagnetic and electric data. <i>Exploration Geophysics</i> , 2015, 46, 223-235.	1.1	230
26	Airborne electromagnetic modelling options and their consequences in target definition. <i>Exploration Geophysics</i> , 2015, 46, 74-84.	1.1	34
27	Sharp SCI: a new practical tool for blocky models reconstruction. <i>ASEG Extended Abstracts</i> , 2015, 2015, 1-4.	0.1	1
28	Measuring and modeling water-related soil-vegetation feedbacks in a fallow plot. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 1105-1118.	4.9	15
29	The Influence of Subsoil Structure and Acquisition Parameters in MASW Mode Mis-identification. <i>Journal of Environmental and Engineering Geophysics</i> , 2014, 19, 87-99.	0.5	13
30	Mode misidentification in Rayleigh waves: Ellipticity as a cause and a cure. <i>Geophysics</i> , 2013, 78, EN17-EN28.	2.6	68
31	Reply to comment on "Shear wave profile from surface wave inversion: the impact of uncertainty on seismic site response analysis". <i>Journal of Geophysics and Engineering</i> , 2012, 9, 244-246.	1.4	8
32	Focused inversion of vertical radar profile (VRP) traveltime data. <i>Geophysics</i> , 2012, 77, H9-H18.	2.6	26
33	Geophysical characterization of a small pre-Alpine catchment. <i>Journal of Applied Geophysics</i> , 2012, 80, 32-42.	2.1	21
34	Noninvasive Monitoring of Soil Static Characteristics and Dynamic States: A Case Study Highlighting Vegetation Effects on Agricultural Land. <i>Vadose Zone Journal</i> , 2012, 11, vzt2011.0195.	2.2	42
35	From surface wave inversion to seismic site response prediction: Beyond the 1D approach. <i>Soil Dynamics and Earthquake Engineering</i> , 2012, 36, 38-51.	3.8	17
36	Shear wave profiles from surface wave inversion: the impact of uncertainty on seismic site response analysis. <i>Journal of Geophysics and Engineering</i> , 2011, 8, 162-174.	1.4	58

#	ARTICLE	IF	CITATIONS
37	Statistical multioffset phase analysis for surface-wave processing in laterally varying media. <i>Geophysics</i> , 2011, 76, U1-U11.	2.6	37
38	Surface electrical resistivity tomography and hydrogeological characterization to constrain groundwater flow modeling in an agricultural field site near Ferrara (Italy). <i>Environmental Earth Sciences</i> , 2010, 61, 311-322.	2.7	40
39	Identification of lateral discontinuities via multioffset phase analysis of surface wave data. <i>Geophysical Prospecting</i> , 2010, 58, 389-413.	1.9	40
40	Sharp boundary inversion in crosswell travel-time tomography. <i>Journal of Geophysics and Engineering</i> , 2006, 3, 122-134.	1.4	33