

# Giulio Vignoli

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

1,103  
citations

430874

18  
h-index

414414

32  
g-index

49  
all docs

49  
docs citations

49  
times ranked

782  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Sharp spatially constrained inversion with applications to transient electromagnetic data. <i>Geophysical Prospecting</i> , 2015, 63, 243-255.	1.9	86
3	Mode misidentification in Rayleigh waves: Ellipticity as a cause and a cure. <i>Geophysics</i> , 2013, 78, EN17-EN28.	2.6	68
4	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
5	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, vzj2011.0195.	2.2	42
6	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
7	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
8	Identification of lateral discontinuities via multi-offset phase analysis of surface wave data. <i>Geophysical Prospecting</i> , 2010, 58, 389-413.	1.9	40
9	Statistical multioffset phase analysis for surface-wave processing in laterally varying media. <i>Geophysics</i> , 2011, 76, U11-U11.	2.6	37
10	Airborne electromagnetic modelling options and their consequences in target definition. <i>Exploration Geophysics</i> , 2015, 46, 74-84.	1.1	34
11	Sharp boundary inversion in crosswell travel-time tomography. <i>Journal of Geophysics and Engineering</i> , 2006, 3, 122-134.	1.4	33
12	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
13	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
14	(Quasi-)Real-Time Inversion of Airborne Time-Domain Electromagnetic Data via Artificial Neural Network. <i>Remote Sensing</i> , 2020, 12, 3440.	4.0	31
15	Calibrating electromagnetic induction conductivities with time-domain reflectometry measurements. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 1509-1523.	4.9	27
16	Focused inversion of vertical radar profile (VRP) traveltimes data. <i>Geophysics</i> , 2012, 77, H9-H18.	2.6	26
17	Geophysical characterization of a small pre-Alpine catchment. <i>Journal of Applied Geophysics</i> , 2012, 80, 32-42.	2.1	21
18	Regional flow in a complex coastal aquifer system: Combining voxel geological modelling with regularized calibration. <i>Journal of Hydrology</i> , 2018, 562, 544-563.	5.4	21

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Reconstruction, with tunable sparsity levels, of shear wave velocity profiles from surface wave data. <i>Geophysical Journal International</i> , 2021, 225, 1935-1951.	2.4	16
23	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
24	Inversion of Multiconfiguration Complex EMI Data with Minimum Gradient Support Regularization: A Case Study. <i>Mathematical Geosciences</i> , 2020, 52, 945-970.	2.4	15
25	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. <i>Solid Earth</i> , 2020, 11, 349-361.	2.8	14
26	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
27	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
28	1D Stochastic Inversion of Airborne Time-Domain Electromagnetic Data with Realistic Prior and Accounting for the Forward Modeling Error. <i>Remote Sensing</i> , 2021, 13, 3881.	4.0	11
29	Laterally constrained inversion (LCI) of multi-configuration EMI data with tunable sharpness. <i>Journal of Applied Geophysics</i> , 2022, 196, 104519.	2.1	9
30	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
31	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
32	Sparse laterally constrained inversion of surface-wave dispersion curves via minimum gradient support regularization. <i>Geophysics</i> , 2022, 87, R281-R289.	2.6	7
33	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. <i>Lecture Notes in Computer Science</i> , 2020, , 944-959.	1.3	5
34	Assessment of Distributed Acoustic Sensing (DAS) performance for geotechnical applications. <i>Engineering Geology</i> , 2022, 306, 106729.	6.3	5
35	Smooth and Sparse Inversion of EMI Data from Multi-Configuration Measurements. , 2018, , .		4
36	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. <i>Lecture Notes in Computer Science</i> , 2020, , 971-991.	1.3	4

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37	Ground-based remote sensing of the shallow subsurface: Geophysical methods for environmental applications. <i>Developments in Earth Surface Processes</i> , 2020, , 55-89.	2.8	3
38	Sharp SCI: a new practical tool for blocky models reconstruction. <i>ASEG Extended Abstracts</i> , 2015, 2015, 1-4.	0.1	1
39	3D TRAINING IMAGE DEVELOPMENT AND CONDITIONING STRATEGIES FOR MULTIPLE-POINT STATISTICAL SIMULATIONS. , 2017, , .		0
40	Geophysical Modelling of a Sedimentary Portion of the White Volta Basin (Ghana). <i>Lecture Notes in Computer Science</i> , 2020, , 891-902.	1.3	0