Nicola Piana Agostinetti

List of Publications by Year
in descending order

67 papers	2,050 citations	257450 24 h-index	254184 43 g-index
76 all docs	76 docs citations	76 times ranked	2025 citing authors

#	Article	IF	Citations
1	Deep structure of the crust in the area of the 2016â€“2017 Central Italy seismic sequence from receiver function analysis. Tectonophysics, 2022, 826, 229237.	2.2	4
2	Distributed acoustic sensing as a tool for subsurface mapping and seismic event monitoring: a proof of concept. Solid Earth, 2022, 13, 449-468.	2.8	7
3	The 2011â€“2014 Pollino Seismic Swarm: Complex Fault Systems Imaged by 1D Refined Location and Shear Wave Splitting Analysis at the Apenninesâ€“Calabrian Arc Boundary. Frontiers in Earth Science, 2021, 9, .	1.8	8
4	Insights Into the Origin and Deformation Style of the Continental Moho: A Caseâ€Study From the Western Alps (Italy). Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021319.	3.4	4
5	Exploration of Data Space Through Transâ€Dimensional Sampling: A Case Study of 4D Seismics. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022343.	3.4	3
6	Changepoint detection in seismic double-difference data: application of a trans-dimensional algorithm to data-space exploration. Solid Earth, 2021, 12, 2717-2733.	2.8	3
7	Acrossâ€Fault Velocity Gradients and Slip Behavior of the San Andreas Fault Near Parkfield. Geophysical Research Letters, 2020, 47, e2019GL084480.	4.0	8
8	Mantle upwelling beneath the Apennines identified by receiver function imaging. Scientific Reports, 2020, 10, 19760.	3.3	6
9	Assessing the potential of passive seismic receiver functions for ore body exploration. Geophysical Prospecting, 2020, 68, 2094-2103.	1.9	1
10	Moho depth of the British Isles: a probabilistic perspective. Geophysical Journal International, 2020, 221, 1384-1401.	2.4	6
11	Modeling of Anisotropy in the Lithosphere and Asthenosphere for Real Earth Cases: A Critical Assessment of the Impact on SKS Measurements. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018978.	3.4	4
12	Inferring Crustal Temperatures Beneath Italy From Joint Inversion of Receiver Functions and Surface Waves. Journal of Geophysical Research: Solid Earth, 2019, 124, 8771-8785.	3.4	10
13	Deep structure of the Southern Apennines as imaged by active and passive seismic data along the CROP-04 (crustal) reflection seismic profile. Journal of the Geological Society, 2019, 176, 1284-1290.	2.1	7
14	Estimating lateral and vertical resolution in receiver function data for shallow crust exploration. Geophysical Journal International, 2019, 218, 2045-2053.	2.4	4
15	Sedimentary basins investigation using teleseismic Pâ€wave time delays. Geophysical Prospecting, 2019, 67, 1676-1685.	1.9	6
16	Change-point analysis of<i>VP</i>/<i>VS</i>ratio time-series using a trans-dimensional McMC algorithm: applied to the Alto Tiberina Near Fault Observatory seismic network (Northern Apennines,) Tj ETQq0 0 0 rg BT /Overlock 10 Tf	2.4	5
17	Seismic anisotropy in central North Anatolian Fault Zone and its implications on crustal deformation. Physics of the Earth and Planetary Interiors, 2018, 277, 99-112.	1.9	26
18	A reversible-jump Markov chain Monte Carlo algorithm for 1D inversion of magnetotelluric data. Computers and Geosciences, 2018, 113, 94-105.	4.2	33

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19	Assessing uncertainties in high-resolution, multifrequency receiver-function inversion: A comparison with borehole data. Geophysics, 2018, 83, KS11-KS22.	2.6	20
20	Flexible Coupling in Joint Inversions: A Bayesian Structure Decoupling Algorithm. Journal of Geophysical Research: Solid Earth, 2018, 123, 8798-8826.	3.4	16
21	Sedimentary basin investigation using receiver function: an East African Rift case study. Geophysical Journal International, 2018, 215, 2105-2113.	2.4	13
22	Deep Structure of Northern Apennines Subduction Orogen (Italy) as Revealed by a Joint Interpretation of Passive and Active Seismic Data. Geophysical Research Letters, 2018, 45, 4017-4024.	4.0	22
23	Sedimentary basin exploration with receiver functions: Seismic structure and anisotropy of the Dublin Basin (Ireland). Geophysics, 2017, 82, KS41-KS55.	2.6	19
24	Seismic swarms and diffuse fracturing within Triassic evaporites fed by deep degassing along the lowâ€angle Alto Tiberina normal fault (central Apennines, Italy). Journal of Geophysical Research: Solid Earth, 2017, 122, 308-331.	3.4	11
25	Discovering geothermal supercritical fluids: a new frontier for seismic exploration. Scientific Reports, 2017, 7, 14592.	3.3	17
26	Lithospheric fault and kinematic decoupling of the Apennines system across the Pollino range. Geophysical Research Letters, 2016, 43, 3201-3207.	4.0	14
27	Crustal structure and deformation across a mature slab tear zone: the case of southern Tyrrhenian subduction (Italy). Geophysical Research Letters, 2016, 43, 12,380.	4.0	5
28	A semi-automated method for the detection of seismic anisotropy at depth via receiver function analysis. Geophysical Journal International, 2016, 205, 1589-1612.	2.4	16
29	Crustal and upper mantle responses to lithospheric segmentation in the northern Apennines. Tectonics, 2015, 34, 648-661.	2.8	29
30	Trans-dimensional Monte Carlo sampling applied to the magnetotelluric inverse problem. Journal of Physics: Conference Series, 2015, 574, 012132.	0.4	0
31	The structure of the Moho in the Northern Apennines: Evidence for an incipient slab tear fault?. Tectonophysics, 2015, 655, 88-96.	2.2	12
32	Local three-dimensional earthquake tomography by trans-dimensional Monte Carlo sampling. Geophysical Journal International, 2015, 201, 1598-1617.	2.4	64
33	High Frequency Receiver Functions in the Dublin Basin: Application to a Potential Geothermal Site. Energy Procedia, 2014, 59, 221-226.	1.8	3
34	The Deep Structure of the Larderello-travale Geothermal Field (Italy) from Integrated, Passive Seismic Investigations. Energy Procedia, 2014, 59, 227-234.	1.8	11
35	Moho depth and Vp/Vs in Ireland from teleseismic receiver functions analysis. Geophysical Journal International, 2014, 199, 561-579.	2.4	18
36	The 2012 Emilia seismic sequence (Northern Italy): Imaging the thrust fault system by accurate aftershock location. Tectonophysics, 2014, 622, 44-55.	2.2	78

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37	High frequency seismic waves and slab structures beneath Italy. Earth and Planetary Science Letters, 2014, 391, 212-223.	4.4	23
38	Orogen-parallel variability in 3D seismicity distribution, Northern Apennines (Italy): Evidence for a slab tear fault?. Journal of Geodynamics, 2014, 82, 110-117.	1.6	9
39	The fate of the downgoing oceanic plate: Insight from the Northern Cascadia subduction zone. Earth and Planetary Science Letters, 2014, 408, 237-251.	4.4	28
40	From underplating to delamination-retreat in the northern Apennines. Earth and Planetary Science Letters, 2014, 403, 108-116.	4.4	49
41	Apulian crust: Top to bottom. Journal of Geodynamics, 2014, 82, 125-137.	1.6	23
42	Combining controlled-source seismology and receiver function information to derive 3-D Moho topography for Italy. Geophysical Journal International, 2013, 194, 1050-1068.	2.4	116
43	Insights into the evolution of the Italian lithospheric structure from S receiver function analysis. Earth and Planetary Science Letters, 2012, 345-348, 49-59.	4.4	45
44	Fluid migration in continental subduction: The Northern Apennines case study. Earth and Planetary Science Letters, 2011, 302, 267-278.	4.4	37
45	Erosion of the continental lithosphere at the cusps of the Calabrian arc: Evidence from<i>S</i>receiver functions analysis. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	17
46	Shear-velocity and anisotropy structure of a retreating extensional forearc (Tuscany, Italy) from receiver functions inversion. Geophysical Journal International, 2010, 181, 545-556.	2.4	8
47	Receiver function inversion by trans-dimensional Monte Carlo sampling. Geophysical Journal International, 2010, , .	2.4	56
48	Temporal variation of seismic velocity and anisotropy before the 2009 M_W6.3 L'Aquila earthquake, Italy. Geology, 2010, 38, 1015-1018.	4.4	146
49	Mapping seismic anisotropy using harmonic decomposition of receiver functions: An application to Northern Apennines, Italy. Journal of Geophysical Research, 2010, 115, .	3.3	124
50	Control of the 2009 L'Aquila earthquake, central Italy, by a highâ€velocity structure: A receiver function study. Journal of Geophysical Research, 2010, 115, .	3.3	27
51	Imaging the subducted slab under the Calabrian Arc, Italy, from receiver function analysis. Lithosphere, 2009, 1, 131-138.	1.4	33
52	Bayesian source inference of the 1993-1997 deformation at Mount Etna (Italy) by numerical solutions. Geophysical Journal International, 2009, 177, 806-814.	2.4	11
53	Analysis of small magnitude seismic sequences along the Northern Apennines (Italy). Tectonophysics, 2009, 476, 136-144.	2.2	14
54	The 2009 L'Aquila (central Italy) M_W6.3 earthquake: Main shock and aftershocks. Geophysical Research Letters, 2009, 36, .	4.0	291

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55	Moho depth and <i>V</i>_{<i>p</i>}/<i>V</i>_{<i>s</i>} ratio in peninsular Italy from teleseismic receiver functions. Journal of Geophysical Research, 2009, 114, .	3.3	110
56	Seismic structure beneath Mt Vesuvius from receiver function analysis and local earthquakes tomography: evidences for location and geometry of the magma chamber. Geophysical Journal International, 2008, 175, 1298-1308.	2.4	35
57	Numerical inversion of deformation caused by pressure sources: application to Mount Etna (Italy). Geophysical Journal International, 2008, 172, 873-884.	2.4	35
58	Deep structure of the Colli Albani volcanic district (central Italy) from receiver functions analysis. Journal of Geophysical Research, 2008, 113, .	3.3	52
59	Mantle wedge anisotropy in Southern Tyrrhenian Subduction Zone (Italy), from receiver function analysis. Tectonophysics, 2008, 462, 35-48.	2.2	25
60	Crustal structure above a retreating trench: Receiver function study of the northern Apennines orogen. Earth and Planetary Science Letters, 2008, 275, 211-220.	4.4	25
61	Crustal structure at colliding plates boundary from receiver functions analysis: A close look beneath the northern Apennines (Italy). Geophysical Research Letters, 2008, 35, .	4.0	9
62	Crustal structure and Moho depth profile crossing the central Apennines (Italy) along the N42Â° parallel. Journal of Geophysical Research, 2008, 113, .	3.3	17
63	Crustal structure in the Southern Apennines from teleseismic receiver functions. Geology, 2008, 36, 155.	4.4	51
64	Possible fault plane in a seismic gap area of the southern Apennines (Italy) revealed by receiver function analysis. Journal of Geophysical Research, 2005, 110, .	3.3	30
65	Mantle viscosity inference: a comparison between simulated annealing and neighbourhood algorithm inversion methods. Geophysical Journal International, 2004, 157, 890-900.	2.4	12
66	Modeling Earth's post-glacial rebound. Eos, 2004, 85, 62.	0.1	34
67	Crustal Structure and Moho Geometry beneath the Northern Apennines (Italy). Geophysical Research Letters, 2002, 29, 60-1-60-4.	4.0	44