

Marcelo Assumpo

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100 papers	3,222 citations	30 h-index	54 g-index
120 ext. papers	3,676 ext. citations	3.6 avg, IF	5.12 L-index

#	Paper	IF	Citations
100	Global patterns of tectonic stress. <i>Nature</i> , 1989 , 341, 291-298	50.4	507
99	Seismic evidence for a fossil mantle plume beneath South America and implications for plate driving forces. <i>Nature</i> , 1995 , 378, 25-31	50.4	231
98	The regional intraplate stress field in South America. <i>Journal of Geophysical Research</i> , 1992 , 97, 11889		129
97	Upper mantle structure of South America from joint inversion of waveforms and fundamental mode group velocities of Rayleigh waves. <i>Journal of Geophysical Research</i> , 2007 , 112,		114
96	Models of crustal thickness for South America from seismic refraction, receiver functions and surface wave tomography. <i>Tectonophysics</i> , 2013 , 609, 82-96	3.1	100
95	Gravity derived Moho for South America. <i>Tectonophysics</i> , 2013 , 609, 456-467	3.1	80
94	Superposition of local and regional stresses in northeast Brazil: evidence from focal mechanisms around the Potiguar marginal basin. <i>Geophysical Journal International</i> , 1998 , 134, 341-355	2.6	80
93	Crustal thickness map of Brazil: Data compilation and main features. <i>Journal of South American Earth Sciences</i> , 2013 , 43, 74-85	2	78
92	Tectonic implications of S-wave anisotropy beneath SE Brazil. <i>Geophysical Journal International</i> , 1996 , 126, 1-10	2.6	77
91	Quaternary tectonics in Brazil. <i>Episodes</i> , 1999 , 22, 221-225	1.6	75
90	Group-velocity tomography and lithospheric S-velocity structure of the South American continent. <i>Physics of the Earth and Planetary Interiors</i> , 2004 , 147, 315-331	2.3	71
89	Source mechanisms of moderate-size earthquakes and stress orientation in mid-plate South America. <i>Geophysical Journal International</i> , 1988 , 92, 253-267	2.6	70
88	Intraplate seismicity in SE Brazil: stress concentration in lithospheric thin spots. <i>Geophysical Journal International</i> , 2004 , 159, 390-399	2.6	69
87	Moho map of South America from receiver functions and surface waves. <i>Journal of Geophysical Research</i> , 2010 , 115,		61
86	Stress orientations in Brazilian sedimentary basins from breakout analysis: implications for force models in the South American plate. <i>Geophysical Journal International</i> , 1997 , 130, 112-124	2.6	60
85	Crustal thicknesses in SE Brazilian Shield by receiver function analysis: Implications for isostatic compensation. <i>Journal of Geophysical Research</i> , 2002 , 107, ESE 2-1-ESE 2-14		57
84	LISPB -- V. Studies of crustal shear waves. <i>Geophysical Journal International</i> , 1978 , 54, 61-73	2.6	57

83	Upper-mantle seismic structure beneath SE and Central Brazil from P- and S-wave regional traveltimes tomography. <i>Geophysical Journal International</i> , 2011 , 184, 268-286	2.6	51
82	Upper mantle anisotropy in SE and Central Brazil from SKS splitting: Evidence of asthenospheric flow around a cratonic keel. <i>Earth and Planetary Science Letters</i> , 2006 , 250, 224-240	5.3	50
81	Deep crustal structure of the Paraná Basin from receiver functions and Rayleigh-wave dispersion: Evidence for a fragmented cratonic root. <i>Journal of Geophysical Research</i> , 2008 , 113,		48
80	Seismic velocity anomalies beneath SE Brazil from P and S wave travel time inversions. <i>Journal of Geophysical Research</i> , 2003 , 108,		48
79	Correlation of seismicity and water level in the Açú reservoir—an example from Northeast Brazil. <i>Bulletin of the Seismological Society of America</i> , 1995 , 85, 1483-1489	2.3	46
78	A regional magnitude scale for Brazil. <i>Bulletin of the Seismological Society of America</i> , 1983 , 73, 237-246	2.3	42
77	Seismic studies of the Brasília fold belt at the western border of the São Francisco Craton, Central Brazil, using receiver function, surface-wave dispersion and teleseismic tomography. <i>Tectonophysics</i> , 2004 , 388, 173-185	3.1	39
76	The tailings dam failure of 5 November 2015 in SE Brazil and its preceding seismic sequence. <i>Geophysical Research Letters</i> , 2016 , 43, 4929-4936	4.9	38
75	The 1986–1988 intraplate earthquake sequence near João Câmara, northeast Brazil—Evolution of seismicity. <i>Tectonophysics</i> , 1989 , 167, 117-131	3.1	38
74	Effect of the Altiplano-Puna plateau, South America, on the regional intraplate stresses. <i>Tectonophysics</i> , 1993 , 221, 475-496	3.1	36
73	Intraplate stress field in South America from earthquake focal mechanisms. <i>Journal of South American Earth Sciences</i> , 2016 , 71, 278-295	2	35
72	Crustal structure of the Ribeira fold belt, SE Brazil, derived from receiver functions. <i>Journal of South American Earth Sciences</i> , 2004 , 16, 743-758	2	31
71	Intra-plate seismicity and flexural stresses in central Brazil. <i>Geophysical Research Letters</i> , 2013 , 40, 487-495	4.1	30
70	Intraplate earthquake swarm in Belo Jardim, NE Brazil: reactivation of a major Neoproterozoic shear zone (Pernambuco Lineament). <i>Geophysical Journal International</i> , 2010 , 180, 1303-1312	2.6	29
69	Crustal and upper mantle structure in the intracratonic Paraná Basin, SE Brazil, from surface wave dispersion using genetic algorithms. <i>Journal of South American Earth Sciences</i> , 2006 , 21, 173-184	2	29
68	Shear wave splitting in SE Brazil: an effect of active or fossil upper mantle flow, or both?. <i>Earth and Planetary Science Letters</i> , 2003 , 211, 79-95	5.3	29
67	The Brazilian Seismographic Network (RSBR): Improving Seismic Monitoring in Brazil. <i>Seismological Research Letters</i> , 2018 , 89, 452-457	3	29
66	Fault plane solutions of intraplate earthquakes in Brazil: Some constraints on the regional stress field. <i>Tectonophysics</i> , 1985 , 113, 283-293	3.1	28

65	Testing the influence of far-field topographic forcing on subduction initiation at a passive margin. <i>Tectonophysics</i> , 2013 , 608, 517-524	3.1	27
64	Reservoir-induced Seismicity in Brazil 2002 , 159, 597-617		26
63	Focal mechanisms of small earthquakes in the southeastern Brazilian shield: a test of stress models of the South American plate. <i>Geophysical Journal International</i> , 1998 , 133, 490-498	2.6	25
62	A continuing intraplate earthquake sequence near João Câmara, northeastern Brazil-Preliminary results. <i>Geophysical Research Letters</i> , 1987 , 14, 1042-1045	4.9	25
61	Upper crustal earthquake swarms in São Caetano: Reactivation of the Pernambuco shear zone and trending branches in intraplate Brazil. <i>Tectonophysics</i> , 2013 , 608, 804-811	3.1	23
60	The intraplate Porto dos Galinhos seismic zone in the Amazon craton in Brazil. <i>Tectonophysics</i> , 2009 , 469, 37-47	3.1	22
59	Upper-mantle seismic anisotropy from SKS splitting in the South American stable platform: A test of asthenospheric flow models beneath the lithosphere. <i>Lithosphere</i> , 2011 , 3, 173-180	2.7	22
58	The intracratonic Caracará earthquake of December 09, 2007 (4.9 mb), Minas Gerais State, Brazil. <i>Tectonophysics</i> , 2010 , 480, 48-56	3.1	20
57	Intraplate seismicity in Brazil 50-71		19
56	The São Vicente earthquake of 2008 April and seismicity in the continental shelf off SE Brazil: further evidence for flexural stresses. <i>Geophysical Journal International</i> , 2011 , 187, 1076-1088	2.6	19
55	The NW Scotland earthquake swarm of 1974. <i>Geophysical Journal International</i> , 1981 , 67, 577-586	2.6	18
54	The Mara Rosa 2010 GT-5 earthquake and its possible relationship with the continental-scale transbrasiliano lineament. <i>Journal of South American Earth Sciences</i> , 2015 , 60, 1-9	2	17
53	Multi-objective inversion of surface waves and receiver functions by competent genetic algorithm applied to the crustal structure of the Paraná Basin, SE Brazil. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	17
52	The 2012-2013 Montes Claros earthquake series in the São Francisco Craton, Brazil: new evidence for non-uniform intraplate stresses in mid-plate South America. <i>Geophysical Journal International</i> , 2015 , 200, 216-226	2.6	15
51	Using Seismic Noise Levels to Monitor Social Isolation: An Example From Rio de Janeiro, Brazil. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088748	4.9	15
50	Sismicidade do Nordeste do Brasil. <i>Revista Brasileira De Geofísica</i> , 2018 , 1,	1.2	14
49	Intraplate seismicity in mid-plate South America: correlations with geophysical lithospheric parameters. <i>Geological Society Special Publication</i> , 2017 , 432, 73-90	1.7	13
48	Delimiting the Neoproterozoic São Francisco Paleocontinental Block with P-wave traveltime tomography. <i>Geophysical Journal International</i> , 2019 , 219, 633-644	2.6	13

47	An Updated Crustal Thickness Map of Central South America Based on Receiver Function Measurements in the Region of the Chaco, Pantanal, and Paran�Basins, Southwestern Brazil. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 8491-8505	3.6	13
46	Seismic activity triggered by water wells in the Paran�Basin, Brazil. <i>Water Resources Research</i> , 2010 , 46,	5.4	13
45	The 2009 earthquake, magnitude mb 4.8, in the Pantanal Wetlands, west-central Brazil. <i>Anais Da Academia Brasileira De Ciencias</i> , 2016 , 88, 1253-64	1.4	13
44	Earthquake sequences in the southern block of the Pernambuco Lineament, NE Brazil: Stress field and seismotectonic implications. <i>Tectonophysics</i> , 2014 , 633, 211-220	3.1	12
43	Crustal structure of the Amazonian Craton and adjacent provinces in Brazil. <i>Journal of South American Earth Sciences</i> , 2017 , 79, 431-442	2	12
42	Path-specific, dispersion-based velocity models and moment tensors of moderate events recorded at few distant stations: Examples from Brazil and Greece. <i>Journal of South American Earth Sciences</i> , 2016 , 71, 344-358	2	12
41	Thin crust beneath the Chaco-Paran�Basin by surface-wave tomography. <i>Journal of South American Earth Sciences</i> , 2016 , 66, 1-14	2	11
40	Inversion of teleseismic receiver function and magnetotelluric sounding to determine basement depth in the Paran�Basin, SE Brazil. <i>Journal of Applied Geophysics</i> , 2009 , 68, 231-242	1.7	11
39	Induced seismicity in the Castanh� reservoir, NE Brazil � Preliminary results. <i>Tectonophysics</i> , 2008 , 456, 103-110	3.1	11
38	Influence of the continental margin on the stress field and seismicity in the intraplate Acara� Seismic Zone, NE Brazil. <i>Geophysical Journal International</i> , 2015 , 202, 1453-1462	2.6	10
37	Probabilistic seismic hazard analysis for a nuclear power plant site in southeast Brazil. <i>Journal of Seismology</i> , 2019 , 23, 1-23	1.5	10
36	Coda wave attenuation in the Parecis Basin, Amazon Craton, Brazil: sensitivity to basement depth. <i>Journal of Seismology</i> , 2011 , 15, 391-409	1.5	10
35	The intraplate Maranh� earthquake of 2017 January 3, northern Brazil: evidence for uniform regional stresses along the Brazilian equatorial margin. <i>Geophysical Journal International</i> , 2018 , 213, 387-396	2.6	9
34	Teleseismic P Wave Tomography Beneath the Pantanal, Paran�and Chaco-Paran�Basins, SE South America: Delimiting Lithospheric Blocks of the SW Gondwana Assemblage. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 7120-7137	3.6	9
33	Genetic algorithm inversion of the average 1D crustal structure using local and regional earthquakes. <i>Computers and Geosciences</i> , 2011 , 37, 1372-1380	4.5	8
32	Determination of Moho dip using PS reflections. <i>Geophysical Journal International</i> , 1980 , 60, 77-84	2.6	8
31	Seismicity patterns and focal mechanisms in southeastern Brazil. <i>Revista Brasileira De Geofisica</i> , 1997 , 15, 119-132	1.2	8
30	Estimating the 2008 Quetame (Colombia) earthquake source parameters from seismic data and InSAR measurements. <i>Journal of South American Earth Sciences</i> , 2016 , 72, 250-265	2	8

29	Lithospheric Features of the São Francisco Craton. <i>Regional Geology Reviews</i> , 2017 , 15-25	2.5	7
28	Effect of lateral variation and model parameterization on surface wave dispersion inversion to estimate the average shallow structure in the Paraná Basin. <i>Journal of Seismology</i> , 2005 , 9, 449-462	1.5	7
27	Earthquake source properties of a shallow induced seismic sequence in SE Brazil. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 2784-2797	3.6	6
26	Mantle anisotropy and asthenospheric flow around cratons in southeastern South America. <i>Geophysical Journal International</i> , 2018 , 215, 494-506	2.6	6
25	Reservoir-Triggered Seismicity in Brazil: Statistical Characteristics in a Midplate Environment. <i>Bulletin of the Seismological Society of America</i> , 2018 , 108, 3046-3061	2.3	6
24	Mantle dynamics of the Andean Subduction Zone from continent-scale teleseismic S-wave tomography. <i>Geophysical Journal International</i> , 2020 , 224, 1553-1571	2.6	5
23	Crustal Structure of the Collision-Subduction Zone in South of Iran Using Virtual Seismometers. <i>Scientific Reports</i> , 2019 , 9, 10851	4.9	4
22	Seismic Intensity Attenuation for Intraplate Earthquakes in Brazil with the Re-Evaluation of Historical Seismicity. <i>Seismological Research Letters</i> , 2019 , 90, 2217-2226	3	4
21	Basement depths in the Parecis Basin (Amazon) with receiver functions from small local earthquakes in the Porto dos Gaúchos seismic zone. <i>Journal of South American Earth Sciences</i> , 2011 , 32, 142-151	2	4
20	Rupture lengths of intraplate earthquakes in Brazil determined by relative location of aftershocks: Evidence for depth dependence of stress drops. <i>Journal of South American Earth Sciences</i> , 2019 , 89, 246-258	2.58	4
19	The 1885 M _{6.9} Earthquake in the French Guiana-Brazil Border: The Largest Midplate Event in the Nineteenth Century in South America. <i>Seismological Research Letters</i> , 2020 , 91, 2497-2510	3	3
18	Genetic Algorithm-Finite Element Inversion of Stress Field of Brazil. <i>Chinese Journal of Geophysics</i> , 2000 , 43, 191-199		3
17	Blsp02: Projeto De Estudo Sismológico Da Crosta E Manto Superior No Brasil 2004 ,		3
16	Cálculo de Magnitudes e Relação Frequência-Magnitudes dos Sismos de João Câmara, RN. <i>Revista Brasileira De Geofísica</i> , 2018 , 7, 107	1.2	3
15	Ambient seismic noise tomography in west-central and Southern Brazil, characterizing the crustal structure of the Chaco-Paraná Pantanal and Paraná basins. <i>Geophysical Journal International</i> , 2020 , 220, 2074-2085	2.6	3
14	Determination of the fault plane and rupture size of the 2013 Santa Cruz earthquake, Bolivia, 5.2 Mw, by relative location of the aftershocks. <i>Journal of South American Earth Sciences</i> , 2016 , 71, 54-62 ²		2
13	Feições crustais determinadas pela análise azimutal da função do receptor, na região da estação sísmológica de Rio Claro (RCLB). <i>Revista Brasileira De Geofísica</i> , 2007 , 25, 399-411	1.2	2
12	Spectral analysis of Brazilian data and comparison with ground-motion models 2013 ,		2

11	Basement Depth In The Paraná Basin From Joint Inversion Of Teleseismic Receiver Functions And Magnetotelluric Sounding 2004 ,		2
10	Surface Wave Dispersion Inversion Using Improved Genetic Algorithm 2001 ,		2
9	Joint Inversion of Receiver Functions and Surface-Wave Dispersion in the Pantanal Wetlands: Implications for Basin Formation. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2019JB018337	3.6	2
8	Improved epicentral relocation in the offshore Campos basin, SE Brazil, with the RSTT 3D model. <i>Journal of South American Earth Sciences</i> , 2018 , 85, 121-125	2	2
7	Improving the characterization of the seismic source in Bebedouro, Paraná Basin, Brazil: further evidence of seismicity triggered by hydraulic stimulation in water wells. <i>Geophysical Journal International</i> , 2017 , 210, 594-608	2.6	1
6	The 2012 Montes Claros earthquake sequence in the São Francisco craton: another evidence of inverse faulting and compressional stresses in Eastern Brazil 2013 ,		1
5	Effect of the cold Nazca Slab on the depth of the 660 km discontinuity in South America. <i>Journal of South American Earth Sciences</i> , 2021 , 112, 103607	2	1
4	Reservoir-induced Seismicity in Brazil 2002 , 597-617		1
3	Lithospheric Architecture of the Paranapanema Block and Adjacent Nuclei Using Multiple-Frequency P-Wave Seismic Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2020JB021183	3.6	1
2	Focal mechanism of the 5.1Mw 2014 Lloja earthquake, Bolivia: Probing the transition between extensional stresses of the central Altiplano and compressional stresses of the sub-Andes. <i>Journal of South American Earth Sciences</i> , 2019 , 91, 102-107	2	1
1	PmKP phases misidentified by LASA as Brazilian events. <i>Geophysical Journal International</i> , 1983 , 72, 265-271	2.1	