

Carla Braitenberg

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90
papers

2,288
citations

26
h-index

45
g-index

107
ext. papers

2,577
ext. citations

3.4
avg, IF

5.09
L-index

#	Paper	IF	Citations
90	Holocene relative sea-level changes and vertical movements along the Italian and Istrian coastlines. <i>Quaternary International</i> , 2009 , 206, 102-133	2	183
89	Earth's free oscillations excited by the 26 December 2004 Sumatra-Andaman earthquake. <i>Science</i> , 2005 , 308, 1139-44	33.3	178
88	Basement structures from satellite-derived gravity field: South China Sea ridge. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		131
87	Geometry of orientation columns in the visual cortex. <i>Biological Cybernetics</i> , 1979 , 33, 179-86	2.8	102
86	Spatial variations of flexure parameters over the Tibetan-Qinghai plateau. <i>Earth and Planetary Science Letters</i> , 2003 , 205, 211-224	5.3	96
85	Tesseroids: Forward-modeling gravitational fields in spherical coordinates. <i>Geophysics</i> , 2016 , 81, F41-F48	3.1	90
84	The gravity and isostatic Moho undulations in Qinghai-Tibet plateau. <i>Journal of Geodynamics</i> , 2000 , 30, 489-505	2.2	80
83	Moho undulations beneath Tibet from GRACE-integrated gravity data. <i>Geophysical Journal International</i> , 2007 , 170, 971-985	2.6	74
82	Inverse modelling of elastic thickness by convolution method in the eastern Alps as a case example. <i>Earth and Planetary Science Letters</i> , 2002 , 202, 387-404	5.3	70
81	Science and User Needs for Observing Global Mass Transport to Understand Global Change and to Benefit Society. <i>Surveys in Geophysics</i> , 2015 , 36, 743-772	7.6	53
80	Forward and inverse modelling of gravity revealing insight into crustal structures of the Eastern Alps. <i>Tectonophysics</i> , 2001 , 337, 191-208	3.1	53
79	GOCE satellite derived gravity and gravity gradient corrected for topographic effect in the South Central Andes region. <i>Geophysical Journal International</i> , 2012 , 190, 941-959	2.6	51
78	A new analytical solution estimating the flexural rigidity in the Central Andes. <i>Geophysical Journal International</i> , 2007 , 169, 789-794	2.6	51
77	Explaining the thick crust in Paraná basin, Brazil, with satellite GOCE gravity observations. <i>Journal of South American Earth Sciences</i> , 2013 , 45, 209-223	2	47
76	Exploration of tectonic structures with GOCE in Africa and across-continent. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2015 , 35, 88-95	7.3	42
75	Insights into the lithospheric structure and tectonic setting of the Barents Sea region from isostatic considerations. <i>Geophysical Journal International</i> , 2007 , 171, 1390-1403	2.6	42
74	Spectral and classical methods in the evaluation of Moho undulations from gravity data: The NE Italian Alps and isostasy. <i>Journal of Geodynamics</i> , 1997 , 23, 5-22	2.2	40

73	GOCE derived vertical gravity gradient delineates great earthquake rupture zones along the Chilean margin. <i>Tectonophysics</i> , 2014 , 622, 198-215	3.1	39
72	New insights into the basement structure of the West Siberian Basin from forward and inverse modeling of GRACE satellite gravity data. <i>Journal of Geophysical Research</i> , 2009 , 114,		37
71	Hydrologically induced slope deformations detected by GPS and clinometric surveys in the Cansiglio Plateau, southern Alps. <i>Earth and Planetary Science Letters</i> , 2015 , 419, 134-142	5.3	36
70	The lithospheric density structure of the Eastern Alps. <i>Tectonophysics</i> , 2006 , 414, 145-155	3.1	35
69	Geophysical constraints on the link between cratonization and orogeny: Evidence from the Tibetan Plateau and the North China Craton. <i>Earth-Science Reviews</i> , 2014 , 130, 1-48	10.2	33
68	The enigmatic Chad lineament revisited with global gravity and gravity-gradient fields. <i>Geological Society Special Publication</i> , 2011 , 357, 329-341	1.7	33
67	Moho topography, ranges and folds of Tibet by analysis of global gravity models and GOCE data. <i>Scientific Reports</i> , 2015 , 5, 11681	4.9	32
66	Magnetotelluric deep soundings, gravity and geoid in the south Sß Francisco craton: Geophysical indicators of cratonic lithosphere rejuvenation and crustal underplating. <i>Earth and Planetary Science Letters</i> , 2010 , 297, 423-434	5.3	31
65	Measurements and interpretations of tiltstrain gauges in seismically active areas. <i>Earth-Science Reviews</i> , 1999 , 47, 151-187	10.2	30
64	Sea level variability and trends in the Adriatic Sea in 1993-2008 from tide gauges and satellite altimetry. <i>Physics and Chemistry of the Earth</i> , 2012 , 40-41, 47-58	3	26
63	Crustal density structure from 3D gravity modeling beneath Himalaya and Lhasa blocks, Tibet. <i>Journal of Asian Earth Sciences</i> , 2013 , 78, 301-317	2.8	25
62	Mutual evaluation of global gravity models (EGM2008 and GOCE) and terrestrial data in Amazon Basin, Brazil. <i>Geophysical Journal International</i> , 2013 , 195, 870-882	2.6	25
61	Three-dimensional fold structure of the Tibetan Moho from GRACE gravity data. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	24
60	New evidence about the subduction of the Copiapó ridge beneath South America, and its connection with the Chilean-Pampean flat slab, tracked by satellite GOCE and EGM2008 models. <i>Journal of Geodynamics</i> , 2015 , 91, 65-88	2.2	23
59	The very-broad-band long-base tiltmeters of Grotta Gigante (Trieste, Italy): Secular term tilting and the great Sumatra-Andaman islands earthquake of December 26, 2004. <i>Journal of Geodynamics</i> , 2006 , 41, 164-174	2.2	23
58	Gravity inversion in Qinghai-Tibet Plateau. <i>Physics and Chemistry of the Earth</i> , 2000 , 25, 381-386		22
57	The GOCE Estimated Moho Beneath the Tibetan Plateau and Himalaya. <i>International Association of Geodesy Symposia</i> , 2014 , 391-397	0.8	22
56	The buried shape of an alpine valley from gravity surveys, seismic and ambient noise analysis. <i>Geophysical Journal International</i> , 2010 , 180, 715-733	2.6	20

55	Geodetic and hydrological aspects of the Merano earthquake of 17 July 2001. <i>Journal of Geodynamics</i> , 2005 , 39, 317-336	2.2	20
54	Interpretation of gravity data by the continuous wavelet transform: The case of the Chad lineament (North-Central Africa). <i>Journal of Applied Geophysics</i> , 2013 , 90, 62-70	1.7	19
53	The GRACE-satellite gravity and geoid fields in analysing large-scale, cratonic or intracratonic basins. <i>Geophysical Prospecting</i> , 2009 , 57, 559-571	1.9	19
52	Gravity for Detecting Caves: Airborne and Terrestrial Simulations Based on a Comprehensive Karstic Cave Benchmark. <i>Pure and Applied Geophysics</i> , 2016 , 173, 1243-1264	2.2	16
51	New gravity maps of the Eastern Alps and significance for the crustal structures. <i>Tectonophysics</i> , 2006 , 414, 127-143	3.1	16
50	Estimating the hydrologic induced signal in geodetic measurements with predictive filtering methods. <i>Geophysical Research Letters</i> , 1999 , 26, 775-778	4.9	15
49	Joint Gravity and Isostatic Analysis for Basement Studies [A Novel Tool 2007 ,		15
48	Archean crust and metallogenic zones in the Amazonian Craton sensed by satellite gravity data. <i>Scientific Reports</i> , 2019 , 9, 2565	4.9	14
47	Gradients from GOCE reveal gravity changes before Pisagua Mw=8.2 and Iquique Mw=7.7 large megathrust earthquakes. <i>Journal of South American Earth Sciences</i> , 2015 , 64, 273-287	2	14
46	Comparative Analysis of the Free Oscillations Generated by the Sumatra- Andaman Islands 2004 and the Chile 1960 Earthquakes. <i>Bulletin of the Seismological Society of America</i> , 2007 , 97, S6-S17	2.3	14
45	A Comparative Analysis of Seismological and Gravimetric Crustal Thicknesses below the Andean Region with Flat Subduction of the Nazca Plate. <i>International Journal of Geophysics</i> , 2009 , 2009, 1-8	2	13
44	MOCASS: A Satellite Mission Concept Using Cold Atom Interferometry for Measuring the Earth Gravity Field. <i>Surveys in Geophysics</i> , 2019 , 40, 1029-1053	7.6	12
43	Vertical crustal motions from differential tide gauge observations and satellite altimetry in southern Italy. <i>Journal of Geodynamics</i> , 2011 , 51, 233-244	2.2	12
42	Non-random spectral components in the seismicity of NE Italy. <i>Earth and Planetary Science Letters</i> , 2000 , 179, 379-390	5.3	12
41	Sardinia Coastal Uplift and Volcanism. <i>Pure and Applied Geophysics</i> , 2009 , 166, 1369-1402	2.2	11
40	Interference of tectonic signals in subsurface hydrologic monitoring through gravity and GPS due to mountain building. <i>Global and Planetary Change</i> , 2018 , 167, 148-159	4.2	10
39	Lithosphere density structure beneath the eastern margin of the Tibetan Plateau and its surrounding areas derived from GOCE gradients data. <i>Geodesy and Geodynamics</i> , 2017 , 8, 147-154	1.8	9
38	New insights into the Andean crustal structure between 32° and 34°S from GOCE satellite gravity data and EGM2008 model. <i>Geological Society Special Publication</i> , 2015 , 399, 183-202	1.7	9

37	Terrain uplift due to natural hydrologic overpressure in karstic conduits. <i>Scientific Reports</i> , 2019 , 9, 3934-49	4.9	8
36	Laser-scan and gravity joint investigation for subsurface cavity exploration □The Grotta Gigante benchmark. <i>Geophysics</i> , 2015 , 80, B83-B94	3.1	8
35	The deforming and rotating Earth □A review of the 18th International Symposium on Geodynamics and Earth Tide, Trieste 2016. <i>Geodesy and Geodynamics</i> , 2018 , 9, 187-196	1.8	8
34	The study of karstic aquifers by geodetic measurements in Bus de la Genziana station □Consiglio plateau (Northeastern Italy). <i>Acta Carsologica</i> , 2012 , 40,	1.7	8
33	Metamorphic CO ₂ production in calc-silicate rocks from the eastern Himalaya. <i>Italian Journal of Geosciences</i> , 2017 , 136, 39-49	1.7	7
32	A quantitative approach to the loading rate of seismogenic sources in Italy. <i>Geophysical Journal International</i> , 2018 , 213, 2096-2111	2.6	7
31	Consiglio Karst Plateau: 10 Years of Geodetic□Hydrological Observations in Seismically Active Northeast Italy. <i>Pure and Applied Geophysics</i> , 2018 , 175, 1765-1781	2.2	7
30	Analysis of vertical movements in eastern Sicily and southern Calabria (Italy) through geodetic leveling data. <i>Journal of Geodynamics</i> , 2013 , 66, 1-12	2.2	7
29	Radon monitoring in a cave of North-Eastern Italy. <i>Physics and Chemistry of the Earth</i> , 1998 , 23, 949-952		7
28	The Congo Basin: Stratigraphy and subsurface structure defined by regional seismic reflection, refraction and well data. <i>Global and Planetary Change</i> , 2021 , 198, 103407	4.2	7
27	The first pan-Alpine surface-gravity database, a modern compilation that crosses frontiers. <i>Earth System Science Data</i> , 2021 , 13, 2165-2209	10.5	7
26	Mass variation observing system by high low inter-satellite links (MOBILE) □a new concept for sustained observation of mass transport from space. <i>Journal of Geodetic Science</i> , 2019 , 9, 48-58	1	7
25	Karst caves and hydrology between geodesy and archeology: Field trip notes. <i>Geodesy and Geodynamics</i> , 2018 , 9, 262-269	1.8	5
24	Geodynamics and Earth Tides Observations from Global to Micro Scale: Introduction. <i>Pure and Applied Geophysics</i> , 2018 , 175, 1595-1597	2.2	4
23	Geodetic measurements at the northern border of the Adria plate. <i>Journal of Geodynamics</i> , 2001 , 32, 267-286	2.2	4
22	Interpretation of Long-Period Magnetotelluric Soundings In Friuli (North-East Italy) and the Electrical Characteristic of the Lithosphere. <i>Geophysical Journal International</i> , 1994 , 117, 196-204	2.6	4
21	Sensitivity of gravity and topography regressions to earth and planetary structures. <i>Tectonophysics</i> , 2020 , 774, 228299	3.1	4
20	A geothermal application for GOCE satellite gravity data: modelling the crustal heat production and lithospheric temperature field in Central Europe. <i>Geophysical Journal International</i> , 2019 , 219, 1008-1031	2.6	3

19	Bathymetry and Crustal Thickness Variations from Gravity Inversion and Flexural Isostasy. <i>International Association of Geodesy Symposia</i> , 2003 , 143-149	0.8	3
18	Reviewing megathrust slip behavior for recent Mw > 8.0 earthquakes along the Peru-Chilean margin from satellite GOCE gravity field derivatives. <i>Tectonophysics</i> , 2019 , 769, 228188	3.1	2
17	A Grip on Geological Units with GOCE. <i>International Association of Geodesy Symposia</i> , 2014 , 309-317	0.8	2
16	The Friuli (NE-Italy) tilt/strain gauges and short term observations. <i>Annals of Geophysics</i> , 1999 , 42,	1.1	2
15	Detecting the Elevated Crust to Mantle Section in the Kohistan-Ladakh Arc, Himalaya, from GOCE Observations. <i>International Association of Geodesy Symposia</i> , 2014 , 299-307	0.8	2
14	Gravity modeling of the Alpine lithosphere affected by magmatism based on seismic tomography. <i>Solid Earth</i> , 2021 , 12, 539-561	3.3	2
13	Geophysical Challenges for Future Satellite Gravity Missions: Assessing the Impact of MOCASS Mission. <i>Pure and Applied Geophysics</i> , 2021 , 178, 2223-2240	2.2	2
12	Thickness of sediments in the Congo basin based on the analysis of decompensative gravity anomalies. <i>Journal of African Earth Sciences</i> , 2021 , 179, 104201	2.2	2
11	Strain Accumulation and Release of the Gorkha, Nepal, Earthquake (M w 7.8, 25 April 2015). <i>Pure and Applied Geophysics</i> , 2018 , 175, 1909-1923	2.2	2
10	Editorial note for the Geodesy and Geodynamics journal special issue. <i>Geodesy and Geodynamics</i> , 2018 , 9, 183-186	1.8	1
9	Tilting and Horizontal Movement at and across the Northern Border of the Adria Plate 2006 , 129-137		1
8	Gravimetry and petrophysics for defining the intracratonic and rift basins of the Western-Central Africa zone. <i>Geophysics</i> , 2021 , 86, B369-B388	3.1	1
7	The Congo Basin: Subsurface structure interpreted using potential field data and constrained by seismic data. <i>Global and Planetary Change</i> , 2021 , 205, 103611	4.2	1
6	Gravity as a tool to improve the hydrologic mass budget in karstic areas. <i>Hydrology and Earth System Sciences</i> , 2021 , 25, 6001-6021	5.5	0
5	The Peru-Chile Margin from Global Gravity Field Derivatives. <i>Springer Earth System Sciences</i> , 2018 , 59-79	0.3	
4	Geodetic Pendulums, Horizontal Ultra Broad Band. <i>Encyclopedia of Earth Sciences Series</i> , 2019 , 1-6	0	
3	Sardinia Coastal Uplift and Volcanism 2009 , 1369-1402		
2	Mapping New IOCG Mineral Systems in Brazil: The Vale do Curand Riacho do Pontal Copper Districts. <i>Minerals (Basel, Switzerland)</i> , 2020 , 10, 1074	2.4	

- 1 PALEOSTRIPv1.0 is a user-friendly 3D backtracking software to reconstruct paleo-bathymetries. *Geoscientific Model Development*, **2021**, 14, 5285-5305

6.3