Giorgio Spada

List of Publications by Year
in descending order

149 papers	5,750 citations	76294 40 h-index	91828 69 g-index
172 all docs	172 docs citations	172 times ranked	5917 citing authors

#	Article	IF	Citations
1	SeeLevelViz: A simple data science tool for dynamic visualization of shoreline displacement caused by sea-level change. Quaternary International, 2022, , .	0.7	1
2	Palaeo-Shoreline Configuration of the Adventure Plateau (Sicilian Channel) at the Last Glacial Maximum. Geosciences (Switzerland), 2022, 12, 125.	1.0	2
3	New estimates of ongoing sea level change and land movements caused by Glacial Isostatic Adjustment in the Mediterranean region. Geophysical Journal International, 2022, 229, 984-998.	1.0	10
4	Constraining the Internal Structures of Venus and Mars from the Gravity Response to Atmospheric Loading. Planetary Science Journal, 2022, 3, 164.	1.5	6
5	On computing viscoelastic Love numbers for general planetary models: the <tt>ALMA3</tt> code. Geophysical Journal International, 2022, 231, 1502-1517.	1.0	6
6	Timescales of emergence of chronic flooding in the major economic center of Guadeloupe. Natural Hazards and Earth System Sciences, 2021, 21, 703-722.	1.5	9
7	Lunar Gravitational-wave Antenna. Astrophysical Journal, 2021, 910, 1.	1.6	41
8	Late Holocene relative seaâ€level fluctuations and crustal mobility at Bataneh (Najirum) archaeological site, Persian Gulf, Iran. Geoarchaeology - an International Journal, 2021, 36, 740-754.	0.7	5
9	New relative sea-level (RSL) indications from the Eastern Mediterranean: Middle Bronze Age to the Roman period (~3800â€“1800 y BP) archaeological constructions at Dor, the Carmel coast, Israel. PLoS ONE, 2021, 16, e0251870.	1.1	11
10	Mid- to late-Holocene sea-level evolution of the northeastern Aegean sea. Holocene, 2021, 31, 1621-1634.	0.9	4
11	Sea-level rise in Venice: historic and future trends (review article). Natural Hazards and Earth System Sciences, 2021, 21, 2643-2678.	1.5	61
12	Local sea level trends, accelerations and uncertainties over 1993â€“2019. Scientific Data, 2021, 8, 1.	2.4	255
13	Medieval relative low sea-level indications from the Peloponnese and the Aegean Sea. Quaternary International, 2020, 545, 17-27.	0.7	4
14	Exploring the Drivers of Global and Local Seaâ€Level Change Over the 21st Century and Beyond. Earth's Future, 2020, 8, e2019EF001413.	2.4	55
15	Human adaptation to changing coastal landscapes in the Eastern Adriatic: Evidence from Vela Spila cave, Croatia. Quaternary Science Reviews, 2020, 244, 106503.	1.4	6
16	Geoarchaeology as a tool to understand ancient navigation in the northern Persian Gulf and the harbour history of Siraf. Journal of Archaeological Science: Reports, 2020, 33, 102539.	0.2	2
17	Salt pans as a new archaeological sea-level proxy: A test case from Dalmatia, Croatia. Quaternary Science Reviews, 2020, 250, 106680.	1.4	7
18	GLOBAL CHOKE POINTS MAY LINK SEA LEVEL AND HUMAN SETTLEMENT AT THE LAST GLACIAL MAXIMUM. Geographical Review, 2020, 110, 595-620.	0.9	6

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19	Evolution of the number of communicative civilizations in the Galaxy: implications on Fermi paradox. International Journal of Astrobiology, 2020, 19, 314-319.	0.9	2
20	Detecting a forced signal in satellite-era sea-level change. Environmental Research Letters, 2020, 15, 094079.	2.2	11
21	Post-LGM coastline evolution of the NW Sicilian Channel: Comparing high-resolution geophysical data with Glacial Isostatic Adjustment modeling. PLoS ONE, 2020, 15, e0228087.	1.1	14
22	Holocene sea-level change on the central coast of Bohai Bay, China. Earth Surface Dynamics, 2020, 8, 679-693.	1.0	9
23	New insights into active tectonics and seismogenic potential of the Italian Southern Alps from vertical geodetic velocities. Solid Earth, 2020, 11, 1681-1698.	1.2	32
24	Can we detect centennial sea-level variations over the last three thousand years in Israeli archaeological records?. Quaternary Science Reviews, 2019, 210, 125-135.	1.4	24
25	Some remarks on Glacial Isostatic Adjustment modelling uncertainties. Geophysical Journal International, 2019, 218, 401-413.	1.0	33
26	Late Holocene sea-level evolution of Paros Island (Cyclades, Greece). Quaternary International, 2019, 500, 139-146.	0.7	16
27	On Some Properties of the Glacial Isostatic Adjustment Fingerprints. Water (Switzerland), 2019, 11, 1844.	1.2	10
28	SELEN⁴ (SELEN version 4.0): a Fortran program for solving the gravitationally and topographically self-consistent sea-level equation in glacial isostatic adjustment modeling. Geoscientific Model Development, 2019, 12, 5055-5075.	1.3	36
29	Present-day uplift of the European Alps: Evaluating mechanisms and models of their relative contributions. Earth-Science Reviews, 2019, 190, 589-604.	4.0	82
30	A generalization of the Becker model in linear viscoelasticity: creep, relaxation and internal friction. Mechanics of Time-Dependent Materials, 2019, 23, 283-294.	2.3	7
31	Uncertainty in satellite estimates of global mean sea-level changes, trend and acceleration. Earth System Science Data, 2019, 11, 1189-1202.	3.7	97
32	No evidence from the eastern Mediterranean for a MIS 5e double peak sea-level highstand. Quaternary Research, 2018, 89, 505-510.	1.0	4
33	Contributions of a Strengthened Early Holocene Monsoon and Sediment Loading to Presentâ€Day Subsidence of the Gangesâ€Brahmaputra Delta. Geophysical Research Letters, 2018, 45, 1433-1442.	1.5	24
34	Bayesian surface reconstruction of geodetic uplift rates: Mapping the global fingerprint of Glacial Isostatic Adjustment. Journal of Geodynamics, 2018, 122, 25-40.	0.7	26
35	New relative sea-level insights into the isostatic history of the Western Mediterranean. Quaternary Science Reviews, 2018, 201, 396-408.	1.4	48
36	A benchmark study of numerical implementations of the sea level equation in GIA modelling. Geophysical Journal International, 2018, 215, 389-414.	1.0	33

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37	Tide gauge observations in Antarctica (1958â€“2014) and recent ice loss. Antarctic Science, 2017, 29, 369-381.	0.5	6
38	Decoding the origins of vertical land motions observed today at coasts. Geophysical Journal International, 2017, 210, 148-165.	1.0	23
39	Uncertainty of the 20th century sea-level rise due to vertical land motion errors. Earth and Planetary Science Letters, 2017, 473, 24-32.	1.8	92
40	Shortâ€term variations of <scp>I</scp>celandic ice cap mass inferred from cGPS coordinate time series. Geochemistry, Geophysics, Geosystems, 2017, 18, 2099-2119.	1.0	6
41	A generalization of the Lomnitz logarithmic creep law via Hadamard fractional calculus. Chaos, Solitons and Fractals, 2017, 102, 333-338.	2.5	48
42	Evaluating Model Simulations of Twentieth-Century Sea-Level Rise. Part II: Regional Sea-Level Changes. Journal of Climate, 2017, 30, 8565-8593.	1.2	57
43	Extent and dynamic evolution of the lost land aquaterra since the Last Glacial Maximum. Comptes Rendus - Geoscience, 2017, 349, 151-158.	0.4	11
44	Evaluating Model Simulations of Twentieth-Century Sea Level Rise. Part I: Global Mean Sea Level Change. Journal of Climate, 2017, 30, 8539-8563.	1.2	64
45	Assessing tectonic subsidence from estimates of Holocene relative sea-level change: An example from the NW Mediterranean (Magra Plain, Italy). Holocene, 2017, 27, 1988-1999.	0.9	9
46	Glacial Isostatic Adjustment and Contemporary Sea Level Rise: An Overview. Surveys in Geophysics, 2017, 38, 153-185.	2.1	67
47	New insights into the sea-level evolution in Corsica (NW Mediterranean) since the late Neolithic. Journal of Archaeological Science: Reports, 2017, 12, 782-793.	0.2	15
48	Regional Sea Level Changes for the Twentieth and the Twenty-First Centuries Induced by the Regional Variability in Greenland Ice Sheet Surface Mass Loss. Journal of Climate, 2017, 30, 2011-2028.	1.2	15
49	Sea-level rise along the Emilia-Romagna coast (Northern Italy) in 2100: scenarios and impacts. Natural Hazards and Earth System Sciences, 2017, 17, 2271-2287.	1.5	22
50	On computing the geoelastic response to a disk load. Geophysical Journal International, 2016, 205, 1804-1812.	1.0	23
51	Testing models of ice cap extent, South Georgia, sub-Antarctic. Quaternary Science Reviews, 2016, 154, 157-168.	1.4	9
52	Spectral analysis of sea level during the altimetry era, and evidence for GIA and glacial melting fingerprints. Global and Planetary Change, 2016, 143, 34-49.	1.6	16
53	Sea-level variability in the Mediterranean Sea from altimetry and tide gauges. Climate Dynamics, 2016, 47, 2851-2866.	1.7	78
54	Multiproxy assessment of Holocene relative sea-level changes in the western Mediterranean: Sea-level variability and improvements in the definition of the isostatic signal. Earth-Science Reviews, 2016, 155, 172-197.	4.0	262

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55	A heuristic evaluation of longâ€term global sea level acceleration. Geophysical Research Letters, 2015, 42, 4166-4172.	1.5	11
56	A new Holocene relative sea-level curve for western Brittany (France): Insights on isostatic dynamics along the Atlantic coasts of north-western Europe. Quaternary Science Reviews, 2015, 129, 341-365.	1.4	31
57	Mazara del Vallo Tide Gauge Observations (1906â€“16): Land Subsidence or Sea-Level Rise?. Journal of Coastal Research, 2015, 31, 69.	0.1	4
58	Terminal Antarctic melting inferred from a far-field coastal site. Quaternary Science Reviews, 2015, 116, 122-132.	1.4	23
59	Ice melting and earthquake suppression in Greenland. Polar Science, 2015, 9, 94-106.	0.5	19
60	Empirical mode decomposition of long-term polar motion observations. Studia Geophysica Et Geodaetica, 2015, 59, 200-211.	0.3	3
61	Origin and Holocene Evolution of a Slightly Submerged Tidal Notch in the NE Adriatic. Journal of Coastal Research, 2015, 300, 255-264.	0.1	5
62	On the Rebound: Modeling Earth's Ever-Changing Shape. Eos, 2015, 96, .	0.1	18
63	Linear and non-linear sea-level variations in the Adriatic Sea from tide gauge records (1872-2012). Annals of Geophysics, 2015, 57, .	0.5	13
64	Sources of 21st century regional sea-level rise along the coast of northwest Europe. Ocean Science, 2014, 10, 473-483.	1.3	16
65	A study of the longest tide gauge sea-level record in Greenland (Nuuk/Godthab, 1958â€“2002). Global and Planetary Change, 2014, 118, 42-51.	1.6	13
66	Trends and acceleration in global and regional sea levels since 1807. Global and Planetary Change, 2014, 113, 11-22.	1.6	163
67	Sea-level rise in the Mediterranean Sea by 2050: Roles of terrestrial ice melt, steric effects and glacial isostatic adjustment. Global and Planetary Change, 2014, 123, 55-66.	1.6	56
68	Vertical ground displacement at Campi Flegrei (Italy) in the fifth century: Rapid subsidence driven by pore pressure drop. Geophysical Research Letters, 2014, 41, 1471-1478.	1.5	37
69	Decadal geodetic variations in Ny-Ã…lesund (Svalbard): role of past and present ice-mass changes. Geophysical Journal International, 2014, 198, 285-297.	1.0	19
70	Towards Constraining Glacial Isostatic Adjustment in Greenland Using ICESat and GPS Observations. International Association of Geodesy Symposia, 2014, , 325-331.	0.2	1
71	Anomalous secular sea-level acceleration in the Baltic Sea caused by isostatic adjustment. Annals of Geophysics, 2014, 57, .	0.5	4
72	Paleofluvial Mega-Canyon Beneath the Central Greenland Ice Sheet. Science, 2013, 341, 997-999.	6.0	63

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73	Love numbers of a generalized Maxwell sphere. Studia Geophysica Et Geodaetica, 2013, 57, 1-16.	0.3	1
74	Intermittent sea-level acceleration. Global and Planetary Change, 2013, 109, 64-72.	1.6	20
75	MiR-146a as marker of senescence-associated pro-inflammatory status in cells involved in vascular remodelling. Age, 2013, 35, 1157-1172.	3.0	172
76	Vertical and horizontal surface displacements near Jakobshavn IsbrÃ¦ driven by meltâ€induced and dynamic ice loss. Journal of Geophysical Research: Solid Earth, 2013, 118, 1837-1844.	1.4	32
77	The gravitationally consistent seaâ€level fingerprint of future terrestrial ice loss. Geophysical Research Letters, 2013, 40, 482-486.	1.5	51
78	Putative miRNAs for the diagnosis of dyslexia, dyspraxia, and specific language impairment. Epigenetics, 2013, 8, 1023-1029.	1.3	6
79	A fiber optic gyroscope on multiplexed telecommunication network with a large enclosed area. , 2013, , .		4
80	Vertical GPS ground motion rates in the Euroâ€Mediterranean region: New evidence of velocity gradients at different spatial scales along the Nubiaâ€Eurasia plate boundary. Journal of Geophysical Research: Solid Earth, 2013, 118, 6003-6024.	1.4	249
81	Becker and Lomnitz rheological models: A comparison. AIP Conference Proceedings, 2012, , .	0.3	4
82	On the viscoelastic characterization of the Jeffreysâ€“Lomnitz law of creep. Rheologica Acta, 2012, 51, 783-791.	1.1	19
83	Decoding last interglacial sea-level variations in the western Mediterranean using speleothem encrustations from coastal caves in Mallorca and Sardinia: A field data -- model comparison. Quaternary International, 2012, 262, 56-64.	0.7	19
84	Evidence for centennial scale sea level variability during the Medieval Climate Optimum (Crusader) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.8	48
85	New estimates of secular sea level rise from tide gauge data and GIA modelling. Geophysical Journal International, 2012, , no-no.	1.0	33
86	Late <scp>H</scp>olocene Sea Level Reconstructions Based on Observations of <scp>R</scp>oman Fish Tanks, <scp>T</scp>yrrhenian Coast of <scp>I</scp>taly. Geoarchaeology - an International Journal, 2012, 27, 259-277.	0.7	47
87	Geomagnetic South Atlantic Anomaly and global sea level rise: A direct connection?. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 74, 129-135.	0.6	16
88	Greenland uplift and regional sea level changes from ICESat observations and GIA modelling. Geophysical Journal International, 2012, 189, 1457-1474.	1.0	39
89	Implementation of the Complete Sea Level Equation in a 3D Finite Elements Scheme: A Validation Study. International Association of Geodesy Symposia, 2012, , 393-397.	0.2	2
90	Multi-decadal sea level trends and land movements in the Mediterranean Sea with estimates of factors perturbing tide gauge data and cumulative uncertainties. Global and Planetary Change, 2011, 76, 63-76.	1.6	44

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91	Istrian and Dalmatian fishtanks as sea-level markers. Quaternary International, 2011, 232, 105-113.	0.7	21
92	A benchmark study for glacial isostatic adjustment codes. Geophysical Journal International, 2011, 185, 106-132.	1.0	97
93	Shallow upper mantle rheology and secular ice sheet fluctuations. Tectonophysics, 2011, 511, 89-98.	0.9	13
94	Predicting microRNA modulation in human prostate cancer using a simple String IDentifier (SID1.0). Journal of Biomedical Informatics, 2011, 44, 615-620.	2.5	20
95	Creep, relaxation and viscosity properties for basic fractional models in rheology. European Physical Journal: Special Topics, 2011, 193, 133-160.	1.2	352
96	Mass balance of the Greenland ice sheet (2003â€“2008) from ICESat data â€“ the impact of interpolation, sampling and firn density. Cryosphere, 2011, 5, 173-186.	1.5	167
97	A sea level equation for seismic perturbations. Geophysical Journal International, 2010, 180, 88-100.	1.0	16
98	Glacioâ€“isostatic Adjustment in the Po Plain and in the Northern Adriatic Region. Pure and Applied Geophysics, 2009, 166, 1303-1318.	0.8	15
99	Bounds on the Timeâ€“history and Holocene Mass Budget of Antarctica from Seaâ€“level Records in SE Tunisia. Pure and Applied Geophysics, 2009, 166, 1319-1341.	0.8	14
100	Influence of glacial isostatic adjustment upon current sea level variations in the Mediterranean. Tectonophysics, 2009, 474, 56-68.	0.9	73
101	Holocene relative sea-level changes and vertical movements along the Italian and Istrian coastlines. Quaternary International, 2009, 206, 102-133.	0.7	202
102	Glacio-isostatic Adjustment in the Po Plain and in the Northern Adriatic Region. , 2009, , 1303-1318.		1
103	Glacio and hydro-isostasy in the Mediterranean Sea: ClarkÂ's zones and role of remote ice sheets. Annals of Geophysics, 2009, 50, .	0.5	4
104	Bounds on the Time-history and Holocene Mass Budget of Antarctica from Sea-level Records in SE Tunisia. , 2009, , 1319-1341.		0
105	Post-seismic rebound of a spherical Earth: new insights from the application of the Post-Widder inversion formula. Geophysical Journal International, 2008, 174, 672-695.	1.0	29
106	ALMA, a Fortran program for computing the viscoelastic Love numbers of a spherically symmetric planet. Computers and Geosciences, 2008, 34, 667-687.	2.0	30
107	SELEN: A Fortran 90 program for solving the â€œsea-level equationâ€• Computers and Geosciences, 2007, 33, 538-562.	2.0	154
108	Glacial isostatic adjustment and relative sea-level changes: the role of lithospheric and upper mantle heterogeneities in a 3-D spherical Earth. Geophysical Journal International, 2006, 165, 692-702.	1.0	47

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109	Using the Post-Widder formula to compute the Earth's viscoelastic Love numbers. Geophysical Journal International, 2006, 166, 309-321.	1.0	39
110	Isostatic rebound following the Alpine deglaciation: impact on the sea level variations and vertical movements in the Mediterranean region. Geophysical Journal International, 2005, 162, 137-147.	1.0	66
111	Mantle viscosity inference: a comparison between simulated annealing and neighbourhood algorithm inversion methods. Geophysical Journal International, 2004, 157, 890-900.	1.0	12
112	Monte Carlo Inversion of DInSAR Data for Dislocation Modeling: Application to the 1997 Umbria-Marche Seismic Sequence (Central Italy). Pure and Applied Geophysics, 2004, 161, 817-838.	0.8	12
113	Earthquakes and relative sealevel changes. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	19
114	Modeling Earth's post-glacial rebound. Eos, 2004, 85, 62.	0.1	34
115	Asperity distribution of the 1964 Great Alaska earthquake and its relation to subsequent seismicity in the region. Tectonophysics, 2003, 367, 219-233.	0.9	18
116	Mantle viscosity beneath the Hudson Bay: An inversion based on the Metropolis algorithm. Journal of Geophysical Research, 2002, 107, ETG 12-1-ETG 12-15.	3.3	17
117	Mantle viscosity from Monte Carlo inversion of very long baseline interferometry data. Journal of Geophysical Research, 2001, 106, 16375-16385.	3.3	12
118	The effect of global seismicity on the polar motion of a viscoelastic Earth. Journal of Geophysical Research, 2001, 106, 6761-6767.	3.3	9
119	Plate motions predictions based on the constraint of toroidal-poloidal equipartition. Geophysical Research Letters, 2000, 27, 2381-2384.	1.5	1
120	Global postseismic deformation: Deep earthquakes. Journal of Geophysical Research, 2000, 105, 631-652.	3.3	18
121	Postglacial rebound in a non-Newtonian spherical Earth. Geophysical Research Letters, 2000, 27, 2065-2068.	1.5	35
122	Large earthquakes and Earth rotation: The role of mantle relaxation. Geophysical Research Letters, 1999, 26, 911-914.	1.5	13
123	Spherical versus flat models of coseismic and postseismic deformations. Journal of Geophysical Research, 1999, 104, 13115-13134.	3.3	36
124	Stress diffusion following large earthquakes: a comparison between spherical and flat-earth models. Geophysical Journal International, 1998, 133, 85-90.	1.0	16
125	Effect of subductions and trends in seismically induced Earth rotational variations. Journal of Geophysical Research, 1998, 103, 7351-7362.	3.3	10
126	Why are earthquakes nudging the pole towards 140Â°E?. Geophysical Research Letters, 1997, 24, 539-542.	1.5	15

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127	Time-dependent residual deformations associated with the June 9, 1994 Bolivia Earthquake. Geophysical Research Letters, 1997, 24, 2849-2852.	1.5	8
128	An Explanation for Earth's Long-Term Rotational Stability. Science, 1997, 275, 372-375.	6.0	76
129	Lateral viscosity variations and post-glacial rebound: Effects on present-day VLBI baseline deformations. Geophysical Research Letters, 1997, 24, 13-16.	1.5	32
130	Global postseismic rebound of a viscoelastic Earth: Theory for finite faults and application to the 1964 Alaska earthquake. Journal of Geophysical Research, 1997, 102, 477-492.	3.3	82
131	Postglacial rebound and lateral viscosity variations: a semi-analytical approach based on a spherical model with Maxwell rheology. Geophysical Journal International, 1997, 129, F9-F13.	1.0	27
132	Long-term rotation and mantle dynamics of the Earth, Mars, and Venus. Journal of Geophysical Research, 1996, 101, 2253-2266.	3.3	27
133	Analytical visco-elastic relaxation models. Geophysical Research Letters, 1996, 23, 697-700.	1.5	48
134	Effects of lateral viscosity variations on present-day horizontal motions and baseline deformations due to glacial isostatic adjustment. Physics and Chemistry of the Earth, 1996, 21, 325-330.	0.3	0
135	Compressible rotational deformation. Geophysical Journal International, 1996, 126, 735-761.	1.0	64
136	Global post-seismic deformation. Geophysical Journal International, 1995, 120, 544-566.	1.0	120
137	Changes in the Earth inertia tensor: The role of boundary conditions at the core-mantle interface. Geophysical Research Letters, 1995, 22, 3557-3560.	1.5	19
138	True polar wander affects the Earth dynamic topography and favours a highly viscous lower mantle. Geophysical Research Letters, 1994, 21, 137-140.	1.5	6
139	Time-dependent density anomalies in a stratified, viscoelastic mantle: Implications for the geoid, Earth's rotation and sea-level fluctuations. Surveys in Geophysics, 1993, 14, 537-553.	2.1	7
140	Polar wandering of a dynamic earth. Geophysical Journal International, 1993, 113, 284-298.	1.0	110
141	On A Particular Solution of the Non-Linear Liouville Equations. Geophysical Journal International, 1993, 114, 399-404.	1.0	7
142	True polar wander and long-wavelength dynamic topography. Tectonophysics, 1993, 223, 3-13.	0.9	5
143	Isostatic deformations and polar wander induced by redistribution of mass within the Earth. Journal of Geophysical Research, 1992, 97, 14223-14236.	3.3	40
144	Excitation of true polar wander by subduction. Nature, 1992, 360, 452-454.	13.7	115

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145	Effects on post-glacial rebound from the hard rheology in the transition zone. Geophysical Journal International, 1992, 109, 683-700.	1.0	114
146	Viscoelastic responses of a hard transition zone: effects on postglacial uplifts and rotational signatures. Earth and Planetary Science Letters, 1991, 105, 453-462.	1.8	8
147	Stress fields and tectonic motions induced by time-varying density anomalies in the lithosphere. Physics of the Earth and Planetary Interiors, 1991, 66, 294-306.	0.7	1
148	Lower-mantle viscosity constrained by seismicity around deglaciated regions. Nature, 1991, 351, 53-55.	13.7	47
149	Ground motion and stress accumulation driven by density anomalies in a viscoelastic lithosphere. Some results for the Apennines. Geophysical Journal International, 1988, 95, 463-480.	1.0	9