

Gyorgy Hetenyi

List of Publications by Citations

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69
papers

2,085
citations

23
h-index

44
g-index

104
ext. papers

2,480
ext. citations

4.8
avg, IF

4.81
L-index

#	Paper	IF	Citations
69	Underplating in the Himalaya-Tibet collision zone revealed by the Hi-CLIMB experiment. <i>Science</i> , 2009 , 325, 1371-4	33.3	523
68	Density distribution of the India plate beneath the Tibetan plateau: Geophysical and petrological constraints on the kinetics of lower-crustal eclogitization. <i>Earth and Planetary Science Letters</i> , 2007 , 264, 226-244	5.3	143
67	Global quieting of high-frequency seismic noise due to COVID-19 pandemic lockdown measures. <i>Science</i> , 2020 , 369, 1338-1343	33.3	118
66	Coexistence of lawsonite-bearing eclogite and blueschist: phase equilibria modelling of Alpine Corsica metabasalts and petrological evolution of subducting slabs. <i>Journal of Metamorphic Geology</i> , 2011 , 29, 583-600	4.4	93
65	The AlpArray Seismic Network: A Large-Scale European Experiment to Image the Alpine Orogen. <i>Surveys in Geophysics</i> , 2018 , 39, 1009-1033	7.6	79
64	Seismic velocities in Southern Tibet lower crust: a receiver function approach for eclogite detection. <i>Geophysical Journal International</i> , 2009 , 177, 1037-1049	2.6	78
63	The effective elastic thickness of the India Plate from receiver function imaging, gravity anomalies and thermomechanical modelling. <i>Geophysical Journal International</i> , 2006 , 167, 1106-1118	2.6	78
62	The 2015 Gorkha earthquake: A large event illuminating the Main Himalayan Thrust fault. <i>Geophysical Research Letters</i> , 2016 , 43, 2517-2525	4.9	70
61	Active tectonics of the eastern Himalaya: New constraints from the first tectonic geomorphology study in southern Bhutan. <i>Geology</i> , 2014 , 42, 427-430	5	49
60	Seismotectonics of Bhutan: Evidence for segmentation of the Eastern Himalayas and link to foreland deformation. <i>Earth and Planetary Science Letters</i> , 2017 , 471, 54-64	5.3	44
59	Segmentation of the Himalayas as revealed by arc-parallel gravity anomalies. <i>Scientific Reports</i> , 2016 , 6, 33866	4.9	43
58	Scales of columnar jointing in igneous rocks: field measurements and controlling factors. <i>Bulletin of Volcanology</i> , 2012 , 74, 457-482	2.4	43
57	Geophysical applicability of atomic clocks: direct continental geoid mapping. <i>Geophysical Journal International</i> , 2012 , 191, 78-82	2.6	42
56	Initiation of crustal-scale thrusts triggered by metamorphic reactions at depth: Insights from a comparison between the Himalayas and Scandinavian Caledonides. <i>Tectonics</i> , 2010 , 29, n/a-n/a	4.3	37
55	Joint approach combining damage and paleoseismology observations constrains the 1714 A.D. Bhutan earthquake at magnitude 8 ± 0.5 . <i>Geophysical Research Letters</i> , 2016 , 43, 10,695-10,702	4.9	36
54	From mountain summits to roots: Crustal structure of the Eastern Alps and Bohemian Massif along longitude 13.3°E. <i>Tectonophysics</i> , 2018 , 744, 239-255	3.1	29
53	Flexure of the India plate underneath the Bhutan Himalaya. <i>Geophysical Research Letters</i> , 2013 , 40, 4225-4230	4.3	28

52	Anomalously deep mantle transition zone below Central Europe: Evidence of lithospheric instability. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	28
51	The underthrusting Indian crust and its role in collision dynamics of the Eastern Himalaya in Bhutan: Insights from receiver function imaging. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 1152-1178	3.6	27
50	Ground-based optical atomic clocks as a tool to monitor vertical surface motion. <i>Geophysical Journal International</i> , 2015 , 202, 1770-1774	2.6	27
49	Joint inversion of teleseismic and GOCE gravity data: application to the Himalayas. <i>Geophysical Journal International</i> , 2013 , 193, 149-160	2.6	27
48	Melt migration in basalt columns driven by crystallization-induced pressure gradients. <i>Nature Communications</i> , 2011 , 2, 299	17.4	27
47	Mantle transition zone variations beneath the Ethiopian Rift and Afar: Chemical heterogeneity within a hot mantle?. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	26
46	Crustal structure of the Pannonian Basin: The AlCaPa and Tisza Terrains and the Mid-Hungarian Zone. <i>Tectonophysics</i> , 2015 , 646, 106-116	3.1	22
45	Shear wave velocity and crustal thickness in the Pannonian Basin from receiver function inversions at four permanent stations in Hungary. <i>Journal of Seismology</i> , 2007 , 11, 405-414	1.5	22
44	Discontinuous low-velocity zones in southern Tibet question the viability of the channel flow model. <i>Geological Society Special Publication</i> , 2011 , 353, 99-108	1.7	21
43	Along-strike variations in the Himalayan orogenic wedge structure in Bhutan from ambient seismic noise tomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 1483-1498	3.6	18
42	Lateral uniformity of India Plate strength over central and eastern Nepal. <i>Geophysical Journal International</i> , 2013 , 195, 1481-1493	2.6	18
41	Swiss-AlpArray temporary broadband seismic stations deployment and noise characterization. <i>Advances in Geosciences</i> , 43 , 15-29		18
40	Internal flow structures in columnar jointed basalt from Hrepphlar, Iceland: II. Magnetic anisotropy and rock magnetic properties. <i>Bulletin of Volcanology</i> , 2012 , 74, 1667-1681	2.4	17
39	Quantifying the impact of mechanical layering and underthrusting on the dynamics of the modern India-Asia collisional system with 3-D numerical models. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 616-644	3.6	16
38	Seismology at School in Nepal: A Program for Educational and Citizen Seismology Through a Low-Cost Seismic Network. <i>Frontiers in Earth Science</i> , 2020 , 8,	3.5	15
37	Incorporating metamorphism in geodynamic models: the mass conservation problem. <i>Geophysical Journal International</i> , 2011 , 186, 6-10	2.6	14
36	Distribution and magnitude of stress due to lateral variation of gravitational potential energy between Indian lowland and Tibetan plateau. <i>Geophysical Journal International</i> , 2019 , 216, 1313-1333	2.6	14
35	Imaging the Moho and the Main Himalayan Thrust in Western Nepal With Receiver Functions. <i>Geophysical Research Letters</i> , 2018 , 45, 13,222	4.9	14

34	Sustainable densification of the deep crust. <i>Geology</i> , 2020 , 48, 673-677	5	12
33	AlpArray in Hungary: temporary and permanent seismological networks in the transition zone between the Eastern Alps and the Pannonian basin. <i>Acta Geodaetica Et Geophysica</i> , 2018 , 53, 221-245	1.7	12
32	Origin of internal flow structures in columnar-jointed basalt from Hrepphlar, Iceland: I. Textural and geochemical characterization. <i>Bulletin of Volcanology</i> , 2012 , 74, 1645-1666	2.4	12
31	Report on the ICDP workshop DIVE (Drilling the Ivrea-Verbano zone). <i>Scientific Drilling</i> , 23 , 47-56		12
30	Building the Himalaya from tectonic to earthquake scales. <i>Nature Reviews Earth & Environment</i> , 2021 , 2, 251-268	30.2	11
29	Stress transfer and connectivity between the Bhutan Himalaya and the Shillong Plateau. <i>Tectonophysics</i> , 2018 , 744, 322-332	3.1	10
28	Density distribution across the Alpine lithosphere constrained by 3-D gravity modelling and relation to seismicity and deformation. <i>Solid Earth</i> , 2019 , 10, 2073-2088	3.3	10
27	Stress and deformation mechanisms at a subduction zone: insights from 2-D thermomechanical numerical modelling. <i>Geophysical Journal International</i> , 2020 , 221, 1605-1625	2.6	9
26	Source mechanism of a lower crust earthquake beneath the Himalayas and its possible relation to metamorphism. <i>Tectonophysics</i> , 2019 , 769, 128153	3.1	9
25	New gravity data and 3-D density model constraints on the Ivrea Geophysical Body (Western Alps). <i>Geophysical Journal International</i> , 2020 , 222, 1977-1991	2.6	7
24	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
23	Spatial relation of surface faults and crustal seismicity: a first comparison in the region of Switzerland. <i>Acta Geodaetica Et Geophysica</i> , 2018 , 53, 439-461	1.7	6
22	Designing Inter- and Transdisciplinary Research on Mountains: What Place for the Unexpected?. <i>Mountain Research and Development</i> , 2020 , 40,	1.4	6
21	Seismic imaging of a mid-crustal low-velocity layer beneath the northern coast of the South China Sea and its tectonic implications. <i>Physics of the Earth and Planetary Interiors</i> , 2020 , 308, 106573	2.3	6
20	Impact of an educational program on earthquake awareness and preparedness in Nepal. <i>Geoscience Communication</i> , 2020 , 3, 279-290	0.7	5
19	Seismic hazard and risk in Bhutan. <i>Natural Hazards</i> , 2020 , 104, 2339-2367	3	5
18	Metamorphic transformation rate over large spatial and temporal scales constrained by geophysical data and coupled modelling. <i>Journal of Metamorphic Geology</i> , 2021 , 39, 1131	4.4	5
17	Establishing primary surface rupture evidence and magnitude of the 1697 CE Sadiya earthquake at the Eastern Himalayan Frontal thrust, India. <i>Scientific Reports</i> , 2021 , 11, 879	4.9	5

16	3D crustal structure of the Eastern Alpine region from ambient noise tomography. <i>Results in Geophysical Sciences</i> , 2020 , 1-4, 100006	1.4	4
15	To conserve or not to conserve (mass in numerical models). <i>Terra Nova</i> , 2014 , 26, 372-376	3	4
14	Moho depth analysis of the eastern Pannonian Basin and the Southern Carpathians from receiver functions. <i>Journal of Seismology</i> , 2019 , 23, 967-982	1.5	3
13	Joint Seismic and Gravity Data Inversion to Image Intra-Crustal Structures: The Ivrea Geophysical Body Along the Val Sesia Profile (Piedmont, Italy). <i>Frontiers in Earth Science</i> , 2021 , 9,	3.5	3
12	Shear wave splitting in the Alpine region. <i>Geophysical Journal International</i> , 2021 , 227, 1996-2015	2.6	3
11	Precise Locating of the Great 1897 Shillong Plateau Earthquake Using Teleseismic and Regional Seismic Phase Data. <i>The Seismic Record</i> , 2021 , 1, 135-144		2
10	Joint Geophysical-Petrological Modeling on the Ivrea Geophysical Body Beneath Valsesia, Italy: Constraints on the Continental Lower Crust. <i>Geochemistry, Geophysics, Geosystems</i> , 2020 , 21, e2020GC009397	3.6	2
9	Paleoseismological Findings at a New Trench Indicate the 1714 M8.1 Earthquake Ruptured the Main Frontal Thrust Over all the Bhutan Himalaya. <i>Frontiers in Earth Science</i> , 2021 , 9,	3.5	2
8	Structure of the crust and the lithosphere in the Himalaya-Tibet region and implications on the rheology and eclogitization of the India plate. <i>Himalayan Journal of Sciences</i> , 2008 , 5, 65-66		1
7	Two subduction-related heterogeneities beneath the Eastern Alps and the Bohemian Massif imaged by high-resolution P-wave tomography. <i>Solid Earth</i> , 2022 , 13, 251-270	3.3	1
6	Transversely isotropic lower crust of Variscan central Europe imaged by ambient noise tomography of the Bohemian Massif. <i>Solid Earth</i> , 2021 , 12, 1051-1074	3.3	1
5	Crustal Thinning From Orogen to Back-Arc Basin: The Structure of the Pannonian Basin Region Revealed by P-to-S Converted Seismic Waves. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2020JB021309	3.6	1
4	High-resolution seismic reflection survey crossing the Insubric Line into the Ivrea-Verbano Zone: Novel approaches for interpreting the seismic response of steeply dipping structures. <i>Tectonophysics</i> , 2021 , 816, 229035	3.1	1
3	Spatio-Temporal Evolution of Intermediate-Depth Seismicity Beneath the Himalayas: Implications for Metamorphism and Tectonics. <i>Frontiers in Earth Science</i> , 2021 , 9,	3.5	1
2	Joint inversion of ground gravity data and satellite gravity gradients between Nepal and Bhutan: New insights on structural and seismic segmentation of the Himalayan arc. <i>Physics and Chemistry of the Earth</i> , 2021 , 123, 103002	3	1
1	Imaging seismic wave-fields with AlpArray and neighboring European networks. <i>International Journal of Earth Sciences</i> , ¹	2.2	