

Karoly Hidas

List of Publications by Year in descending order

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49
papers

1,244
citations

331670

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h-index

395702

33
g-index

60
all docs

60
docs citations

60
times ranked

1267
citing authors

#	ARTICLE	IF	CITATIONS
1	Garnet lherzolite and garnet-spinel mylonite in the Ronda peridotite: Vestiges of Oligocene backarc mantle lithospheric extension in the western Mediterranean. <i>Geology</i> , 2011, 39, 927-930.	4.4	91
2	Carbonation of mantle peridotite by CO ₂ -rich fluids: the formation of listvenites in the Advocate ophiolite complex (Newfoundland, Canada). <i>Lithos</i> , 2018, 323, 238-261.	1.4	61
3	Seismic anisotropy and deformation patterns in upper mantle xenoliths from the central Carpathian-Pannonian region: Asthenospheric flow as a driving force for Cenozoic extension and extrusion?. <i>Tectonophysics</i> , 2012, 514-517, 168-179.	2.2	58
4	Platinum-group elements, S, Se and Cu in highly depleted abyssal peridotites from the Mid-Atlantic Ocean Ridge (ODP Hole 1274A): Influence of hydrothermal and magmatic processes. <i>Contributions To Mineralogy and Petrology</i> , 2013, 166, 1521-1538.	3.1	57
5	Detection of small amounts of H ₂ O in CO ₂ -rich fluid inclusions using Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 1461-1463.	2.5	51
6	Backarc basin inversion and subcontinental mantle emplacement in the crust: kilometre-scale folding and shearing at the base of the proto-Alborz in lithospheric mantle (Betic Cordillera, southern Spain). <i>Journal of the Geological Society</i> , 2013, 170, 47-55.	2.1	51
7	Neoproterozoic granitoids in the basement of the Moroccan Central Meseta: Correlation with the Anti-Atlas at the NW paleo-margin of Gondwana. <i>Precambrian Research</i> , 2017, 299, 34-57.	2.7	49
8	The role of CO ₂ -rich fluids in trace element transport and metasomatism in the lithospheric mantle beneath the Central Pannonian Basin, Hungary, based on fluid inclusions in mantle xenoliths. <i>Earth and Planetary Science Letters</i> , 2012, 331-332, 8-20.	4.4	44
9	Mantle refertilization by melts of crustal-derived garnet pyroxenite: Evidence from the Ronda peridotite massif, southern Spain. <i>Earth and Planetary Science Letters</i> , 2013, 362, 66-75.	4.4	44
10	A Late Oligocene Suprasubduction Setting in the Westernmost Mediterranean Revealed by Intrusive Pyroxenite Dikes in the Ronda Peridotite (Southern Spain). <i>Journal of Geology</i> , 2012, 120, 237-247.	1.4	43
11	Geochemical record of subduction initiation in the sub-arc mantle: Insights from the Loma Caribe peridotite (Dominican Republic). <i>Lithos</i> , 2016, 252-253, 1-15.	1.4	41
12	Coexisting silicate melt inclusions and H ₂ O-bearing, CO ₂ -rich fluid inclusions in mantle peridotite xenoliths from the Carpathian-Pannonian region (central Hungary). <i>Chemical Geology</i> , 2010, 274, 1-18.	3.3	40
13	Fluid-assisted strain localization in the shallow subcontinental lithospheric mantle. <i>Lithos</i> , 2016, 262, 636-650.	1.4	38
14	Geodynamic implications of flattened tabular equigranular textured peridotites from the Bakony-Balaton Highland Volcanic Field (Western Hungary). <i>Journal of Geodynamics</i> , 2007, 43, 484-503.	1.6	34
15	High- <i>P</i> metamorphism of rodingites during serpentinite dehydration (Cerro del Almirez). <i>Geology</i> , 2018, 36, 1141-1173.	3.4	32
16	Transfer of Os isotopic signatures from peridotite to chromitite in the subcontinental mantle: Insights from in situ analysis of platinum-group and base-metal minerals (Ojn peridotite massif). <i>Earth and Planetary Science Letters</i> , 2014, 400, 33-44.	4.4	29
17	Strain Localization in Pyroxenite by Reaction-Enhanced Softening in the Shallow Subcontinental Lithospheric Mantle. <i>Journal of Petrology</i> , 2013, 54, 1997-2031.	2.8	29
18	Fractionation of highly siderophile elements in refertilized mantle: Implications for the Os isotope composition of basalts. <i>Earth and Planetary Science Letters</i> , 2014, 400, 33-44.	4.4	29

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19	Remnants of boninitic melts in the upper mantle beneath the central Pannonian Basin?. <i>Mineralogy and Petrology</i> , 2007, 90, 51-72.	1.1	28
20	Relation between mantle shear zone deformation and metasomatism in spinel peridotite xenoliths of Jeju Island (South Korea): Evidence from olivine CPO and trace elements. <i>Journal of Geodynamics</i> , 2010, 50, 424-440.	1.6	26
21	Multiple Metasomatism beneath the NAGrÃ;dâ€“GÃ¶mÃ¶r Volcanic Field (Northern Pannonian Basin) Revealed by Upper Mantle Peridotite Xenoliths. <i>Journal of Petrology</i> , 2017, 58, 1107-1144.	2.8	23
22	Hyperextension of continental to oceanic-like lithosphere: The record of late gabbros in the shallow subcontinental lithospheric mantle of the westernmost Mediterranean. <i>Tectonophysics</i> , 2015, 650, 65-79.	2.2	22
23	Subduction metamorphism of serpentinite-hosted carbonates beyond antigorite-serpentinite dehydration (Nevado-El-Idre Complex, Spain). <i>Journal of Metamorphic Geology</i> , 2019, 37, 681-715.	3.4	22
24	Genesis of ultra-high pressure garnet pyroxenites in orogenic peridotites and its bearing on the compositional heterogeneity of the Earth's mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 232, 303-328.	3.9	21
25	Fluid-Enhanced Annealing in the Subcontinental Lithospheric Mantle Beneath the Westernmost Margin of the Carpathian-Pannonian Extensional Basin System. <i>Tectonics</i> , 2017, 36, 2987-3011.	2.8	20
26	Textural evolution during high-pressure dehydration of serpentinite to peridotite and its relation to stress orientations and kinematics of subducting slabs: Insights from the Almiraz ultramafic massif. <i>Lithos</i> , 2018, 320-321, 470-489.	1.4	18
27	Metasomatism-induced wehrlite formation in the upper mantle beneath the NAGrÃ;d-GÃ¶mÃ¶r Volcanic Field (Northern Pannonian Basin): Evidence from xenoliths. <i>Geoscience Frontiers</i> , 2020, 11, 943-964.	8.4	17
28	Investigation of nucleation processes during dynamic recrystallization of ice using cryo-EBSD. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20150345.	3.4	16
29	Sr-Nd-Pb isotopic systematics of crustal rocks from the western Betics (S. Spain): Implications for crustal recycling in the lithospheric mantle beneath the westernmost Mediterranean. <i>Lithos</i> , 2017, 276, 45-61.	1.4	16
30	Lithosphere tearing along STEP faults and synkinematic formation of lherzolite and wehrlite in the shallow subcontinental mantle. <i>Solid Earth</i> , 2019, 10, 1099-1121.	2.8	16
31	Melt-wall rock interaction in the mantle shown by silicate melt inclusions in peridotite xenoliths from the central Pannonian Basin (western Hungary). <i>Island Arc</i> , 2009, 18, 375-400.	1.1	15
32	Refertilization Processes in the Subcontinental Lithospheric Mantle: the Record of the Beni Bousera Orogenic Peridotite (Rif Belt, Northern Morocco). <i>Journal of Petrology</i> , 2016, 57, 2251-2270.	2.8	15
33	3D microstructure of olivine in complex geological materials reconstructed by correlative X-ray CT and EBSD analyses. <i>Journal of Microscopy</i> , 2017, 268, 193-207.	1.8	15
34	Brittle Deformation During Eclogitization of Early Paleozoic Blueschist. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	14
35	Late Cadomian rifting of the NW Gondwana margin and the reworking of Precambrian crust - evidence from bimodal magmatism in the early Paleozoic Moroccan Meseta. <i>International Geology Review</i> , 2021, 63, 2013-2036.	2.1	13
36	Lateral and Vertical Heterogeneity in the Lithospheric Mantle at the Northern Margin of the Pannonian Basin Reconstructed From Peridotite Xenolith Microstructures. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 6315-6336.	3.4	12

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37	The role of water and compression in the genesis of alkaline basalts: Inferences from the Carpathian-Pannonian region. <i>Lithos</i> , 2020, 354-355, 105323.	1.4	12
38	Two Cenozoic Extensional Phases in Mallorca and Their Bearing on the Geodynamic Evolution of the Western Mediterranean. <i>Tectonics</i> , 2021, 40, e2021TC006868.	2.8	12
39	Flow in the western Mediterranean shallow mantle: Insights from xenoliths in Pliocene alkali basalts from SE Iberia (eastern Betics, Spain). <i>Tectonics</i> , 2016, 35, 2657-2676.	2.8	10
40	Multi-stage evolution of the lithospheric mantle beneath the westernmost Mediterranean: Geochemical constraints from peridotite xenoliths in the eastern Betic Cordillera (SE Spain). <i>Lithos</i> , 2017, 276, 75-89.	1.4	10
41	Microstructural evolution during thermal annealing of ice-lh. <i>Journal of Structural Geology</i> , 2017, 99, 31-44.	2.3	10
42	Metallogenic fingerprint of a metasomatized lithospheric mantle feeding gold endowment in the western Mediterranean basin. <i>Bulletin of the Geological Society of America</i> , 2022, 134, 1468-1484.	3.3	7
43	Zircon and apatite-bearing pyroxene hornblendite mantle xenolith from Hungary, Carpathian-Pannonian region. <i>Lithos</i> , 2018, 316-317, 19-32.	1.4	6
44	Interplay between melt infiltration and deformation in the deep lithospheric mantle (External Liguride) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.4	6
45	Alpine Metamorphism in the Betic Internal Zones. <i>Regional Geology Reviews</i> , 2019, , 519-544.	1.2	5
46	Geochemical evolution of the lithospheric mantle beneath the Styrian Basin (Western Pannonian) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.4	4
47	Morphological transition during prograde olivine growth formed by high-pressure dehydration of antigorite-serpentinite to chlorite-harzburgite in a subduction setting. <i>Lithos</i> , 2021, 382-383, 105949.	1.4	4
48	Structure and composition of the subcontinental lithospheric mantle beneath the Sangilen Plateau (Tuva, southern Siberia, Russia): Evidence from lamprophyre-hosted spinel peridotite xenoliths. <i>Lithos</i> , 2012, 146-147, 253-263.	1.4	3
49	Structural relationships between ultramylonite, pseudotachylyte and cataclasite in the East Pernambuco shear zone (Borborema Province, NE Brazil). <i>Journal of Structural Geology</i> , 2021, 147, 104346.	2.3	3