Lutz Hecht

List of Publications by Year in descending order

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236925 276875 1,902 66 25 41 citations h-index g-index papers 66 66 66 1654 citing authors docs citations times ranked all docs

#	Article	IF	Citations
1	Permo–Triassic metamorphism in the Mérida Andes, Venezuela: new insights from geochronology, O-isotopes, and geothermobarometry. International Journal of Earth Sciences, 2021, 110, 2465-2493.	1.8	6
2	A large meteoritic event over Antarctica ca. 430 ka ago inferred from chondritic spherules from the S $\tilde{A}_{,r}$ Rondane Mountains. Science Advances, 2021, 7, .	10.3	8
3	Reconstructing the metamorphic evolution of the AraçuaÃ-orogen (SE Brazil) using in situ U–Pb garnet dating and <i>P</i> – <i>T</i> modelling. Journal of Metamorphic Geology, 2021, 39, 1145-1171.	3.4	10
4	Petrographic and chemical studies of the Cretaceous-Paleogene boundary sequence at El Guayal, Tabasco, Mexico: Implications for ejecta plume evolution from the Chicxulub impact crater. , 2021, , 207-233.		1
5	Evaluating urban micrometeorites as a research resourceâ€"A large population collected from a single rooftop. Meteoritics and Planetary Science, 2021, 56, 1531-1555.	1.6	8
6	On exhumation velocities of high-pressure units based on insights from chemical zoning in garnet (Tianshan, NW China). Earth and Planetary Science Letters, 2021, 570, 117065.	4.4	13
7	Efflorescent Sulfate Crystallization on Fractured and Polished Colloform Pyrite Surfaces: A Migration Pathway of Trace Elements. Minerals (Basel, Switzerland), 2020, 10, 12.	2.0	6
8	Lateral variations in the Unit 7–8 boundary zone of the Rum Eastern Layered Intrusion, NW Scotland: implications for the origin and timing of Cr-spinel seam formation. Contributions To Mineralogy and Petrology, 2020, 175, 1.	3.1	3
9	Braided peridotite sills and metasomatism in the Rum Layered Suite, Scotland. Contributions To Mineralogy and Petrology, 2020, 175, 17.	3.1	17
10	Petrogenesis of main group pallasite meteorites based on relationships among texture, mineralogy, and geochemistry. Meteoritics and Planetary Science, 2019, 54, 2814-2844.	1.6	12
11	Variations in Composition, Texture, and Platinum Group Element Mineralization in the Lower Group and Middle Group Chromitites of the Northwestern Bushveld Complex, South Africa. Economic Geology, 2019, 114, 569-590.	3.8	10
12	The Erbisberg drilling 2011: Implications for the structure and postimpact evolution of the inner ring of the Ries impact crater. Meteoritics and Planetary Science, 2019, 54, 2448-2482.	1.6	7
13	Evidence for shockâ€induced anhydrite recrystallization and decomposition at the UNAMâ€7 drill core from the Chicxulub impact structure. Meteoritics and Planetary Science, 2019, 54, 2334-2356.	1.6	5
14	Heterogeneity of melts in impact deposits and implications for their origin (Ries suevite, Germany). Meteoritics and Planetary Science, 2019, 54, 2409-2447.	1.6	2
15	Small-scale Sr and O isotope variations through the UG2 in the eastern Bushveld Complex: The role of crustal fluids. Chemical Geology, 2018, 485, 100-112.	3.3	31
16	Experimental impact cratering: A summary of the major results of the <scp>MEMIN</scp> research unit. Meteoritics and Planetary Science, 2018, 53, 1543-1568.	1.6	25
17	Orthopyroxene oikocrysts in the MG1 chromitite layer of the Bushveld Complex: implications for cumulate formation and recrystallisation. Contributions To Mineralogy and Petrology, 2018, 173, 1.	3.1	22
18	The Chelyabinsk meteorite: New insights from a comprehensive electron microscopy and Raman spectroscopy study with evidence for graphite in olivine of ordinary chondrites. Meteoritics and Planetary Science, 2018, 53, 416-432.	1.6	17

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19	Silicate liquid immiscibility in impact melts. Meteoritics and Planetary Science, 2018, 53, 1594-1632.	1.6	25
20	Late Mesoproterozoic to Early Paleozoic history of metamorphic basement from the southeastern Chiapas Massif Complex, Mexico, and implications for the evolution of NW Gondwana. Lithos, 2018, 300-301, 177-199.	1.4	46
21	The reaction of carbonates in contact with laserâ€generated, superheated silicate melts: Constraining impact metamorphism of carbonateâ€bearing target rocks. Meteoritics and Planetary Science, 2018, 53, 1644-1686.	1.6	15
22	Petrographic investigation of shatter cone melt films recovered from MEMIN impact experiments in sandstone and iSALE modeling of their formation boundary conditions. Meteoritics and Planetary Science, 2018, 53, 1569-1593.	1.6	2
23	Chemical and Textural Re-equilibration in the UG2 Chromitite Layer of the Bushveld Complex, South Africa. Journal of Petrology, 2018, 59, 1193-1216.	2.8	17
24	Immiscible silicate liquids and phosphoran olivine in Netschaëvo IIE silicate: Analogue for planetesimal core–mantle boundaries. Geochimica Et Cosmochimica Acta, 2017, 197, 378-395.	3.9	13
25	Laserâ€induced melting experiments: Simulation of shortâ€term highâ€temperature impact processes. Meteoritics and Planetary Science, 2017, 52, 1475-1494.	1.6	16
26	Thermal equilibration of iron meteorite and pallasite parent bodies recorded at the mineral scale by Fe and Ni isotope systematics. Geochimica Et Cosmochimica Acta, 2017, 217, 95-111.	3.9	15
27	Density current origin of a melt-bearing impact ejecta blanket (Ries suevite, Germany). Geology, 2017, 45, 855-858.	4.4	31
28	Tenoumer impact crater, Mauritania: Impact melt genesis from a lithologically diverse target. Meteoritics and Planetary Science, 2016, 51, 323-350.	1.6	10
29	Correlating laserâ€generated melts with impactâ€generated melts: An integrated thermodynamicâ€petrologic approach. Geophysical Research Letters, 2016, 43, 10,602.	4.0	16
30	Provenance, age constraints and metamorphism of Ediacaran metasedimentary rocks from the El Triunfo Complex (SE Chiapas, México): evidence for Rodinia breakup and lapetus active margin. International Geology Review, 2016, 58, 2065-2091.	2.1	29
31	A Comparison of <i>In Situ</i> Analytical Methods for Trace Element Measurement in Gold Samples from Various South African Gold Deposits. Geostandards and Geoanalytical Research, 2016, 40, 267-289.	3.1	8
32	The formation of <scp>IIE</scp> iron meteorites investigated by the chondruleâ€bearing Mont Dieu meteorite. Meteoritics and Planetary Science, 2015, 50, 1173-1196.	1.6	41
33	Electrochemical Processes in a Crystal Mush: Cyclic Units in the Upper Critical Zone of the Bushveld Complex, South Africa. Journal of Petrology, 2015, 56, 1229-1250.	2.8	19
34	Impact spherules from Karelia, Russia: Possible ejecta from the 2.02 Ga Vredefort impact event. Geology, 2014, 42, 375-378.	4.4	13
35	Geochemical processes between steel projectiles and silica-rich targets in hypervelocity impact experiments. Geochimica Et Cosmochimica Acta, 2014, 133, 257-279.	3.9	32
36	Advanced EDS and µXRF Analysis of Earth and Planetary Materials using Spectrum Imaging, Computer-Controlled SEM and an Annular SDD. Microscopy and Microanalysis, 2014, 20, 1716-1717.	0.4	2

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37	Reactivity of sandstone and siltstone samples from the Ketzin pilot CO2 storage site-Laboratory experiments and reactive geochemical modeling. Environmental Earth Sciences, 2013, 70, 3687-3708.	2.7	49
38	Chemical projectile–target interaction and liquid immiscibility in impact glass from the Wabar craters, Saudi Arabia. Geochimica Et Cosmochimica Acta, 2013, 121, 291-310.	3.9	37
39	Chemical modification of projectile residues and target material in a MEMIN cratering experiment. Meteoritics and Planetary Science, 2013, 48, 134-149.	1.6	41
40	Deformation and melting of steel projectiles in hypervelocity cratering experiments. Meteoritics and Planetary Science, 2013, 48, 150-164.	1.6	20
41	Iron deficiency in pyrrhotite of suevites from the Chesapeake Bay impact crater, USA—A consequence of shock metamorphism?. Meteoritics and Planetary Science, 2012, 47, 277-295.	1.6	10
42	Geochemistry of Impactites. Elements, 2012, 8, 37-42.	0.5	65
43	Melt in the impact breccias from the Eyreville drill cores, Chesapeake Bay impact structure, USA. Meteoritics and Planetary Science, 2011, 46, 396-430.	1.6	2
44	The record of ground zero in the Chesapeake Bay impact craterâ€"Suevites and related rocks. , 2009, , .		13
45	Petrology of impact melt rocks from the Chesapeake Bay crater, USA. , 2009, , .		17
46	Chemical composition of radioactive accessory minerals: implications for the evolution, alteration, age, and uranium fertility of the Fichtelgebirge granites (NE Bavaria, Germany). Neues Jahrbuch Fur Mineralogie, Abhandlungen, 2008, 185, 161-182.	0.3	24
47	Differentiation and emplacement of the Worthington Offset Dike of the Sudbury impact structure, Ontario. Meteoritics and Planetary Science, 2008, 43, 1659-1679.	1.6	25
48	New impactâ€melt rock from the Roter Kamm impact structure, Namibia: Further constraints on impact age, melt rock chemistry, and projectile composition. Meteoritics and Planetary Science, 2008, 43, 1201-1218.	1.6	13
49	Reconstruction of the Chicxulub ejecta plume from its deposits in drill core Yaxcopoil-1. Bulletin of the Geological Society of America, 2007, 119, 1151-1167.	3.3	25
50	Uppermost impact fallback layer in the Bosumtwi crater (Ghana): Mineralogy, geochemistry, and comparison with Ivory Coast tektites. Meteoritics and Planetary Science, 2007, 42, 709-729.	1.6	39
51	New insights into the history and origin of the southern Maya block, SE México: U–Pb–SHRIMP zircon geochronology from metamorphic rocks of the Chiapas massif. International Journal of Earth Sciences, 2007, 96, 253-269.	1.8	107
52	Geochemical identification of projectiles in impact rocks. Meteoritics and Planetary Science, 2006, 41, 1721-1735.	1.6	78
53	A tsunami deposit at the Cretaceous/Paleogene boundary in the Neuquén Basin of Argentina. Cretaceous Research, 2005, 26, 283-297.	1.4	43
54	Impactâ€related dike breccia lithologies in the ICDP drill core Yaxcopoilâ€1, Chicxulub impact structure, Mexico. Meteoritics and Planetary Science, 2004, 39, 931-954.	1.6	34

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55	Platinum group elements in impactites of the ICDP Chicxulub drill core Yaxcopoilâ€1: Are there traces of the projectile? Meteoritics and Planetary Science, 2004, 39, 1009-1016.	1.6	31
56	Origin and emplacement of the impact formations at Chicxulub, Mexico, as revealed by the ICDP deep drilling at Yaxcopoilâ€1 and by numerical modeling. Meteoritics and Planetary Science, 2004, 39, 1035-1067.	1.6	84
57	Composition of impact melt particles and the effects of postâ€impact alteration in suevitic rocks at the Yaxcopoilâ€1 drill core, Chicxulub crater, Mexico. Meteoritics and Planetary Science, 2004, 39, 1169-1186.	1.6	60
58	Petrology and geochemistry of metaigneous rocks from a Grenvillian basement fragment in the Maya block: the Guichicovi complex, Oaxaca, southern Mexico. Precambrian Research, 2003, 124, 41-67.	2.7	53
59	Secondary Ca–Al silicates in plutonic rocks: implications for their cooling history. Contributions To Mineralogy and Petrology, 2001, 141, 415-429.	3.1	33
60	Hydrothermal alteration of monazite in the Precambrian crystalline basement of the Athabasca Basin (Saskatchewan, Canada): implications for the formation of unconformity-related uranium deposits. Mineralium Deposita, 2000, 35, 791-795.	4.1	119
61	A multidisciplinary approach combining geochemical, gravity and structural data: implications for pluton emplacement and zonation. Geological Society Special Publication, 1999, 168, 95-110.	1.3	12
62	Mineralogical and geochemical characteristics of hydrothermal alteration and episyenitization in the Königshain granites, northern Bohemian Massif, Germany. International Journal of Earth Sciences, 1999, 88, 236-252.	1.8	77
63	Rare earth element and isotope (C, O, Sr) characteristics of hydrothermal carbonates: genetic implications for dolomite-hosted talc mineralization at $G\tilde{A}^{q}$ pfersgr \tilde{A}^{1} /4n (Fichtelgebirge, Germany). Chemical Geology, 1999, 155, 115-130.	3.3	124
64	Enclaves in the S-type granites of the Kösseine massif (Fichtelgebirge, Germany): implications for the origin of granites. Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie, 1997, 86, S125-S140.	1.3	11
65	Granitoid magmatism of the NW Bohemian massif revealed: gravity data, composition, age relations and phase concept. Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie, 1997, 86, S45-S63.	1.3	49
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Constraints on the origin of zonation of the granite complexes in the Fichtelgebirge (Germany and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1.3 54 Fur Allgemeine Geologie, 1997, 86, S93-S109.

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