

Gunther Kletetschka

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2703969/publications.pdf>

Version: 2024-02-01

117
papers

2,676
citations

186265

28
h-index

197818

49
g-index

126
all docs

126
docs citations

126
times ranked

2501
citing authors

#	ARTICLE	IF	CITATIONS
1	Distribution of water phase near the poles of the Moon from gravity aspects. Scientific Reports, 2022, 12, 4501.	3.3	11
2	An autonomous lunar geophysical experiment package (ALGEP) for future space missions. Experimental Astronomy, 2022, 54, 617-640.	3.7	2
3	Gravity aspects from recent gravity field model GRGM1200A of the moon and analysis of magnetic data. Icarus, 2022, , 115086.	2.5	7
4	Identification of the Younger Dryas onset was confused by the Laacher See volcanic eruption. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	2
5	Magnetic domains oscillation in the brain with neurodegenerative disease. Scientific Reports, 2021, 11, 714.	3.3	14
6	A Tunguska sized airburst destroyed Tall el-Hammam a Middle Bronze Age city in the Jordan Valley near the Dead Sea. Scientific Reports, 2021, 11, 18632.	3.3	20
7	Evidence of the Matuyama-Brunhes transition in cave sediment in Central Europe. Quaternary International, 2021, 604, 16-27.	1.5	2
8	Plasma shielding removes prior magnetization record from impacted rocks near Santa Fe, New Mexico. Scientific Reports, 2021, 11, 22466.	3.3	2
9	Extraordinary Biomass-Burning Episode and Impact Winter Triggered by the Younger Dryas Cosmic Impact ~12,800 Years Ago: A Reply. Journal of Geology, 2020, 128, 95-107.	1.4	7
10	Excellent electromagnetic interference shielding characteristics of a unidirectionally oriented thin multiwalled carbon nanotube/polyethylene film. Materials and Design, 2020, 195, 108918.	7.0	32
11	Gravity strike angles: A modern approach and tool to estimate the direction of impactors of meteoritic craters. Planetary and Space Science, 2020, 194, 105113.	1.7	10
12	A Gravity Search for Oil and Gas and Groundwater in Egypt Using the Strike Angles Derived from EIGEN 6C4. Applied Sciences (Switzerland), 2020, 10, 8950.	2.5	7
13	A 200-km suspected impact crater Kotuykanskaya near Popigai, Siberia, in the light of new gravity aspects from EIGEN 6C4, and other data. Scientific Reports, 2020, 10, 6093.	3.3	5
14	The Potential of Marine Ferromanganese Nodules From Eastern Pacific as Recorders of Earth's Magnetic Field Changes During the Past 4.7 Myr: A Geochronological Study by Magnetic Scanning and Authigenic ¹⁰ Be/ ⁹ Be Dating. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018639.	3.4	12
15	Electric discharge evidence found in a new class of material in the Chicxulub ejecta. Scientific Reports, 2020, 10, 9035.	3.3	6
16	Support for two subglacial impact craters in northwest Greenland from Earth gravity model EIGEN 6C4 and other data. Tectonophysics, 2020, 780, 228396.	2.2	13
17	Evidence of Cosmic Impact at Abu Hureyra, Syria at the Younger Dryas Onset (~12.8 ka): High-temperature melting at >2200°C. Scientific Reports, 2020, 10, 4185.	3.3	26
18	Experimental determination of remanent magnetism of dusty ice deposits. Earth and Planetary Science Letters, 2020, 545, 116408.	4.4	0

#	ARTICLE	IF	CITATIONS
19	Reply to "Comment on "Attenuation in West Bohemia: Evidence of High Attenuation in the Nová1/2 Kostel Focal Zone and Temporal Change Consistent with CO2 Degassing" by M. WcisÅ, o, L. Eisner, J. MÅjlek, T. Fischer, J. VlÅek, and G. Kletetschka" by Morozov. Bulletin of the Seismological Society of America, 2020, 110, 375-380.	2.3	1
20	Conservation targets from the perspective of a palaeoecological reconstruction. Preslia, 2020, 92, .	2.8	7
21	Laacher See tephra discovered in the Bohemian Forest, Germany, east of the eruption. Quaternary Geochronology, 2019, 51, 130-139.	1.4	6
22	Magnetic tunneling with CNT-based metamaterial. Scientific Reports, 2019, 9, 2551.	3.3	7
23	Late Glacial sediments of the StarÅ; JÅmka paleolake and the first finding of Laacher See Tephra in the Czech Republic. International Journal of Earth Sciences, 2019, 108, 357-378.	1.8	8
24	Comparison of the Palaeomagnetic Parameters of Non-Marine Jurassic-Cretaceous Boundary Sediments in Dorset (SW England), Hebei and Liaoning (NE China)"A Preliminary Study. Open Journal of Geology, 2019, 09, 654-657.	0.5	1
25	Extraordinary Biomass-Burning Episode and Impact Winter Triggered by the Younger Dryas Cosmic Impact ~12,800 Years Ago. 1. Ice Cores and Glaciers. Journal of Geology, 2018, 126, 165-184.	1.4	43
26	Extraordinary Biomass-Burning Episode and Impact Winter Triggered by the Younger Dryas Cosmic Impact ~12,800 Years Ago. 2. Lake, Marine, and Terrestrial Sediments. Journal of Geology, 2018, 126, 185-205.	1.4	65
27	Magnetization of Extraterrestrial Allende material may relate to terrestrial descend. Earth and Planetary Science Letters, 2018, 487, 1-8.	4.4	5
28	Attenuation in West Bohemia: Evidence of High Attenuation in the Nová1/2 Kostel Focal Zone and Temporal Change Consistent with CO2 Degassing. Bulletin of the Seismological Society of America, 2018, 108, 450-458.	2.3	6
29	Cosmic-Impact Event in Lake Sediments from Central Europe Postdates the Laacher See Eruption and Marks Onset of the Younger Dryas. Journal of Geology, 2018, 126, 561-575.	1.4	21
30	Environmental record of layers of bubbles in natural pond ice. Journal of Glaciology, 2018, 64, 866-876.	2.2	6
31	Fundamental relations of mineral specific magnetic carriers for paleointensity determination. Physics of the Earth and Planetary Interiors, 2017, 272, 44-49.	1.9	25
32	Survival Response of <i>Larix Sibirica</i> to the Tunguska Explosion. Tree-Ring Research, 2017, 73, 75-90.	0.6	6
33	Iron Abundances in Lunar Impact Basin Melt Sheets From Orbital Magnetic Field Data. Journal of Geophysical Research E: Planets, 2017, 122, 2429-2444.	3.6	26
34	PALEOINTENSITY DETERMINATION FROM IRON, METEORITIC IRON, MAGNETITE, TITANOMAGNETITE, PYRRHOTITE, HEMATITE, TITANOHEMATITE, TROILITE. , 2017, , .		0
35	The Tunguska event and Cheko lake origin: dendrochronological analysis-Corrigendum. International Journal of Astrobiology, 2016, 15, 33-33.	1.6	3
36	Nanophase iron production through laser irradiation and magnetic detection of space weathering analogs. Icarus, 2016, 268, 204-214.	2.5	5

#	ARTICLE	IF	CITATIONS
37	Cross-linking multiwall carbon nanotubes using PFPA to build robust, flexible and highly aligned large-scale sheets and yarns. <i>Nanotechnology</i> , 2016, 27, 115701.	2.6	8
38	Magnetic, in situ, mineral characterization of Chelyabinsk meteorite thin section. , 2016, , .		0
39	The Tunguska event and Cheko lake origin: dendrochronological analysis. <i>International Journal of Astrobiology</i> , 2015, 14, 345-357.	1.6	5
40	Magnetic, in situ, mineral characterization of Chelyabinsk meteorite thin section. <i>Meteoritics and Planetary Science</i> , 2015, 50, 1112-1121.	1.6	4
41	Gd ₉₀ Co _{2.5} Fe _{7.5} alloy displaying enhanced magnetocaloric properties. <i>Journal of Alloys and Compounds</i> , 2015, 622, 1061-1067.	5.5	5
42	Localization of the Chelyabinsk Meteorite From Magnetic Field Survey and GPS Data. <i>IEEE Sensors Journal</i> , 2015, 15, 4875-4881.	4.7	5
43	Dissolved Gases and Ice Fracturing During the Freezing of a Multicellular Organism: Lessons from Tardigrades. <i>BioResearch Open Access</i> , 2015, 4, 209-217.	2.6	8
44	A newly isolated Haloalkaliphilic bacterium from middle- to late Eocene halite formed in salt lakes in China. <i>Carbonates and Evaporites</i> , 2015, 30, 321-330.	1.0	8
45	Efficiency of Cellular Growth When Creating Small Pockets of Electric Current Along the Walls of Cells. <i>Rejuvenation Research</i> , 2014, 17, 226-228.	1.8	2
46	Sandstone landforms shaped by negative feedback between stress and erosion. <i>Nature Geoscience</i> , 2014, 7, 597-601.	12.9	77
47	Space weathering simulations through controlled growth of iron nanoparticles on olivine. <i>Icarus</i> , 2014, 237, 75-83.	2.5	38
48	Magnetic scanning and interpretation of paleomagnetic data from Prague Synform's volcanics. <i>Studia Geophysica Et Geodaetica</i> , 2013, 57, 103-117.	0.5	19
49	Sliding stones of Racetrack Playa, Death Valley, USA: The roles of rock thermal conductivity and fluctuating water levels. <i>Geomorphology</i> , 2013, 195, 110-117.	2.6	13
50	Temperature fluctuations underneath the ice in Diamond Lake, Hennepin County, Minnesota. <i>Water Resources Research</i> , 2013, 49, 3306-3313.	4.2	7
51	Reply to Boslough et al.: Decades of comet research counter their claims. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E4171.	7.1	5
52	Evidence for deposition of 10 million tonnes of impact spherules across four continents 12,800 y ago. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E2088-97.	7.1	113
53	Reply to Ives and Froese: Regarding the impact-related Younger Dryas boundary layer at Chobot site, Alberta, Canada. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3900.	7.1	5
54	Reply to van Hoesel et al.: Impact-related Younger Dryas boundary nanodiamonds from The Netherlands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3897-8.	7.1	2

#	ARTICLE	IF	CITATIONS
55	Very high-temperature impact melt products as evidence for cosmic airbursts and impacts 12,900 years ago. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1903-12.	7.1	97
56	RAT magnet experiment on the Mars Exploration Rovers: Spirit and Opportunity beyond sol 500. Journal of Geophysical Research, 2011, 116, .	3.3	3
57	An investigation into graphene exfoliation and potential graphene application in MEMS devices. Proceedings of SPIE, 2011, , .	0.8	0
58	Magnetic Measurements on Maple and Sequoia Trees. , 2011, , 427-441.		1
59	Development of superconducting transition edge sensors based on electron-phonon decoupling. Proceedings of SPIE, 2010, , .	0.8	2
60	Magnetic zones of Mars: Deformation-controlled origin of magnetic anomalies. Meteoritics and Planetary Science, 2009, 44, 131-140.	1.6	12
61	Materials Characterization and Integration for Background Limited Far-Infrared Bolometric Detector Arrays. , 2009, , .		1
62	Analysis of the natural remanent magnetization of rocks by measuring the efficiency ratio through alternating field demagnetization spectra. Studia Geophysica Et Geodaetica, 2008, 52, 225-235.	0.5	6
63	Impact-pressure controlled orientation of shatter cone magnetizations in Sierra Madera, Texas, USA. Studia Geophysica Et Geodaetica, 2008, 52, 237-254.	0.5	5
64	Physical properties of meteorites—Applications in space missions to asteroids. Meteoritics and Planetary Science, 2008, 43, 1009-1020.	1.6	23
65	Development and operation of the microshutter array system. Proceedings of SPIE, 2008, , .	0.8	4
66	Mars' crustal magnetization: a window into the past. , 2008, , 242-262.		10
67	Microshutter array system for James Webb Space Telescope. Proceedings of SPIE, 2007, , .	0.8	11
68	A microshutter-based field selector for JWST's multi-object near infrared spectrograph. Proceedings of SPIE, 2007, , .	0.8	4
69	Complex MEMS device: microshutter array system for space applications. , 2007, , .		5
70	Low-temperature magnetic properties of the Neuschwanstein EL6 meteorite. Earth and Planetary Science Letters, 2007, 261, 143-151.	4.4	15
71	Magnetic record associated with tree ring density: Possible climate proxy. Geochemical Transactions, 2007, 8, 2.	0.7	1
72	Magnetization, Thermoremanent, in Minerals. , 2007, , 616-621.		0

#	ARTICLE	IF	CITATIONS
73	Analysis of Telomere Length and Telomerase Activity in Tree Species of Various Lifespans, and with Age in the Bristlecone Pine <i>Pinus longaeva</i> . <i>Rejuvenation Research</i> , 2006, 9, 61-63.	1.8	15
74	TRM in low magnetic fields: a minimum field that can be recorded by large multidomain grains. <i>Physics of the Earth and Planetary Interiors</i> , 2006, 154, 290-298.	1.9	33
75	Comment on a paper "The origin of high magnetic remanence in fault pseudotachylites: Theoretical considerations and implication for coseismic electrical currents" by E.C. FerrÃ©, M.S. Zechmeister, J.W. Geissman, N. Mathana Sekaran, and K. Kocak. <i>Tectonophysics</i> , 2006, 419, 99.	2.2	1
76	Reply to comments by G. Kletetschka on "The origin of high magnetic remanence in fault pseudotachylites: Theoretical considerations and implication for coseismic electrical currents" by E.C. FerrÃ©, M.S. Zechmeister, J.W. Geissman, N. Mathana Sekaran, and K. Kocak. <i>Tectonophysics</i> , 2006, 419, 101-102.	2.2	0
77	MEMS microshutter arrays for James Webb Space Telescope. , 2006, 6415, 77.		0
78	Single-Walled Carbon Nanotubes for a Strain-based Magnetometer. , 2006, , .		0
79	The effects of small metal additions (Co,Cu,Ga,Mn,Al,Bi,Sn) on the magnetocaloric properties of the Gd ₅ Ge ₂ Si ₂ alloy. <i>Journal of Applied Physics</i> , 2006, 99, 08K908.	2.5	56
80	Microshutter array development for the James Webb space telescope. , 2005, 5650, 9.		19
81	Analysis of telomere length and telomerase activity in tree species of various life-spans, and with age in the bristlecone pine <i>Pinus longaeva</i> . <i>Biogerontology</i> , 2005, 6, 101-111.	3.9	70
82	Identification of magnetic minerals by scanning electron microscope and application of ferrofluid. <i>Studia Geophysica Et Geodaetica</i> , 2005, 49, 153-162.	0.5	8
83	Chicxulub impact ejecta deposits in southern Quintana Roo, Mexico, and central Belize. , 2005, , .		19
84	Tectonic implications of Mars crustal magnetism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 14970-14975.	7.1	254
85	Cryogenic characterization and testing of magnetically-actuated microshutter arrays for the James Webb Space Telescope. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 1594-1600.	2.6	9
86	Grain size dependent potential for self generation of magnetic anomalies on Mars via thermoremanent magnetic acquisition and magnetic interaction of hematite and magnetite. <i>Physics of the Earth and Planetary Interiors</i> , 2005, 148, 149-156.	1.9	18
87	Comments on the paper "Grain size dependent potential for self generation of magnetic anomalies on Mars via thermoremanent magnetic acquisition and magnetic interaction of hematite and magnetite" by Kletetschka et al. (2005). <i>Physics of the Earth and Planetary Interiors</i> , 2005, 153, 237.	1.9	1
88	Reply to the comment on the paper "Grain size dependent potential for self generation of magnetic anomalies on Mars via thermoremanent magnetic acquisition and magnetic interaction of hematite and magnetite" by Gunther Kletetschka, Norman F. Ness, J.E.P. Connerney, M.H. Acuna, P.J. Wasilewski, <i>Phys. Earth Planet. Inter.</i> 148 (2005) 149-156, made by: Jafar Arkani-Hamed. <i>Physics of the Earth and Planetary Interiors</i> , 2005, 153, 238-239.	1.9	1
89	The Genomics Age "How DNA Technology Transforms the Way We Live and the Who We Are" The Genomics Age "How DNA Technology Transforms the Way We Live and the Who We Are. By Gina Smith . AMACOM, New York, 2004, 240 pages, ISBN 0814408435, \$24.00 (paperback).. <i>Rejuvenation Research</i> , 2004, 7, 263-266.	1.8	1
90	An empirical scaling law for acquisition of thermoremanent magnetization. <i>Earth and Planetary Science Letters</i> , 2004, 226, 521-528.	4.4	52

#	ARTICLE	IF	CITATIONS
91	The influence of terrestrial processes on meteorite magnetic records. <i>Physics and Chemistry of the Earth</i> , 2004, 29, 885-897.	2.9	12
92	Pressure effects on martian crustal magnetization near large impact basins. <i>Meteoritics and Planetary Science</i> , 2004, 39, 1839-1848.	1.6	45
93	Microshutters arrays for the JWST near-infrared spectrometer. , 2004, , .		22
94	Magnetic Anomalies on the Tree Trunks. <i>Studia Geophysica Et Geodaetica</i> , 2003, 47, 371-379.	0.5	33
95	Magnetic remanence in the Murchison meteorite. <i>Meteoritics and Planetary Science</i> , 2003, 38, 399-405.	1.6	42
96	Possible mineral sources of magnetic anomalies on Mars. <i>The Leading Edge</i> , 2003, 22, 766-768.	0.7	8
97	The role of hematite-ilmenite solid solution in the production of magnetic anomalies in ground- and satellite-based data. <i>Tectonophysics</i> , 2002, 347, 167-177.	2.2	39
98	Grain size limit for SD hematite. <i>Physics of the Earth and Planetary Interiors</i> , 2002, 129, 173-179.	1.9	60
99	443 Eros: Problems with the meteorite magnetism record in attempting an asteroid match. <i>Meteoritics and Planetary Science</i> , 2002, 37, 937-950.	1.6	27
100	NEAR Magnetic Field Observations at 433 Eros: First Measurements from the Surface of an Asteroid. <i>Icarus</i> , 2002, 155, 220-228.	2.5	42
101	Multidomain hematite: A source of planetary magnetic anomalies?. <i>Geophysical Research Letters</i> , 2001, 28, 3345-3348.	4.0	56
102	The global magnetic field of Mars and implications for crustal evolution. <i>Geophysical Research Letters</i> , 2001, 28, 4015-4018.	4.0	248
103	Determining the ages of comets from the fraction of crystalline dust. <i>Nature</i> , 2000, 406, 275-276.	27.8	75
104	Hematite vs. magnetite as the signature for planetary magnetic anomalies?. <i>Physics of the Earth and Planetary Interiors</i> , 2000, 119, 259-267.	1.9	61
105	Unique thermoremanent magnetization of multidomain sized hematite: Implications for magnetic anomalies. <i>Earth and Planetary Science Letters</i> , 2000, 176, 469-479.	4.4	54
106	Magnetic properties of aggregate polycrystalline diamond: implications for carbonado history. <i>Earth and Planetary Science Letters</i> , 2000, 181, 279-290.	4.4	11
107	Mineralogy of the sources for magnetic anomalies on Mars. <i>Meteoritics and Planetary Science</i> , 2000, 35, 895-899.	1.6	57
108	Magnetic characterization of reduction in Mount Fuji basaltic tree-mold. <i>Geophysical Research Letters</i> , 2000, 27, 1543-1546.	4.0	5

#	ARTICLE	IF	CITATIONS
109	Stability analysis of invariant points using Euler spheres, with an application to FMAS granulites. <i>Journal of Metamorphic Geology</i> , 1999, 17, 435-448.	3.4	4
110	Lodestone: Natures only permanent magnet-What it is and how it gets charged. <i>Geophysical Research Letters</i> , 1999, 26, 2275-2278.	4.0	58
111	The origin of magnetic anomalies in lower crustal rocks, Labrador. <i>Geophysical Research Letters</i> , 1998, 25, 199-202.	4.0	34
112	Effect of citrate-bicarbonate-dithionite treatment on fine-grained magnetite and maghemite. <i>Earth and Planetary Science Letters</i> , 1995, 130, 87-94.	4.4	88
113	Magnetic stratigraphy of Chinese Loess as a record of natural fires. <i>Geophysical Research Letters</i> , 1995, 22, 1341-1343.	4.0	90
114	Investigation of the geomagnetic polarity pattern (from the cretaceous to the quaternary). <i>Studia Geophysica Et Geodaetica</i> , 1992, 36, 230-239.	0.5	0
115	Single-Walled Carbon Nanotubes for a Strain-based Magnetometer. , 0, , .		0
116	Lithostratigraphy and age of the Bohemian Forest lake sediments: A first assessment. <i>Geoscience Research Reports</i> , 0, , .	0.0	2
117	Suzdalevo Lake (Central Siberia, Russia)â€™A Tunguska Event-Related Impact Crater?. <i>Frontiers in Earth Science</i> , 0, 10, .	1.8	0