

# Mario Trieloff

## List of Publications by Year in descending order

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119  
papers

4,099  
citations

126907

33  
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133252

59  
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120  
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120  
docs citations

120  
times ranked

3869  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of the parent body of enstatite (EL) chondrites. <i>Icarus</i> , 2022, 373, 114762.	2.5	7
2	Entrapment history of aqueous fluids in Archean cherts from the Barberton Greenstone Belt, South Africa. <i>Precambrian Research</i> , 2022, 368, 106502.	2.7	1
3	Northwest Africa 6486: Record of large impact events and fluid alteration on the L chondrite asteroid. <i>Meteoritics and Planetary Science</i> , 2022, 57, 48-76.	1.6	0
4	Noble gases in Dome C micrometeorites - An attempt to disentangle asteroidal and cometary sources. <i>Icarus</i> , 2022, 376, 114884.	2.5	1
5	Microporosity and parent body of the rubble-pile NEA (162173) Ryugu. <i>Icarus</i> , 2021, 358, 114166.	2.5	10
6	The old, unique C1 chondrite Flensburg – Insight into the first processes of aqueous alteration, brecciation, and the diversity of water-bearing parent bodies and lithologies. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 293, 142-186.	3.9	28
7	Land-sea correlations in the Eastern Mediterranean region over the past c. 800 kyr based on macro- and cryptotephra from ODP Site 964 (Ionian Basin). <i>Quaternary Science Reviews</i> , 2021, 255, 106811.	3.0	7
8	The lunar Dhofar 1436 meteorite: $^{40}\text{Ar}/^{39}\text{Ar}$ chronology and volatiles, revealed by stepwise combustion and crushing methods. <i>Meteoritics and Planetary Science</i> , 2021, 56, 455-481.	1.6	3
9	A cosmic dust detection suite for the deep space Gateway. <i>Advances in Space Research</i> , 2021, 68, 85-104.	2.6	5
10	Graphite in ureilites, enstatite chondrites, and unique clasts in ordinary chondrites – Insights from the carbon-isotope composition. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 307, 86-104.	3.9	4
11	$^{53}\text{Mn}$ - $^{53}\text{Cr}$ systematics of sphalerite in enstatite chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 310, 79-94.	3.9	1
12	The Sources and Evolution of Fluid Phases of Guli Massif Carbonatites (West Siberia): Summarizing of Noble Gases, $\text{N}_2$ , $\text{CO}_2$ , $\text{H}_2\text{O}$ Stepwise Crushing Data. <i>Petrology</i> , 2021, 29, 657-675.	0.9	0
13	Sierra Gorda 009: A new member of the metal-rich G chondrites grouplet. <i>Meteoritics and Planetary Science</i> , 2020, 55, .	1.6	8
14	$\text{U}/\text{Pb}$ dating of zircons from an impact melt of the Nördlinger Ries crater. <i>Meteoritics and Planetary Science</i> , 2020, 55, 312-325.	1.6	13
15	Linking shock textures revealed by BSE, CL, and EBSD with $\text{U}/\text{Pb}$ data ( $\text{LA}/\text{ICP}/\text{MS}$ and SIMS) from zircon from the Araguinha impact structure, Brazil. <i>Meteoritics and Planetary Science</i> , 2019, 54, 2286-2311.	1.6	21
16	Acquisition of terrestrial neon during accretion – A mixture of solar wind and planetary components. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 264, 141-164.	3.9	6
17	Eastern Mediterranean volcanism during marine isotope stages 9 to 7e (335–235 ka): Insights based on cryptotephra layers at Tenaghi Philippon, Greece. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 380, 31-47.	2.1	16
18	$^{40}\text{Ar}$ - $^{39}\text{Ar}$ step heating ages of North American tektites and of impact melt rock samples from the Chesapeake Bay impact structure. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 255, 289-308.	3.9	10

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19	Thermal history modelling of the L chondrite parent body. <i>Astronomy and Astrophysics</i> , 2019, 628, A77.	5.1	19
20	Elmar K. Jessberger (1943–2017). <i>Meteoritics and Planetary Science</i> , 2018, 53, 1537-1540.	1.6	0
21	A new type of oxidized and pre-irradiated micrometeorite. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 233, 135-158.	3.9	13
22	Noble gas composition, cosmic ray exposure age, $^{39}\text{Ar}$ and $^{40}\text{Ar}$ , and $^{136}\text{Xe}$ analyses of ungrouped achondrite <sc>NWA</sc> 7325. <i>Meteoritics and Planetary Science</i> , 2018, 53, 1150-1163.	1.6	2
23	Modeling the evolution of the parent body of acapulcoites and lodranites: A case study for partially differentiated asteroids. <i>Icarus</i> , 2018, 311, 146-169.	2.5	48
24	The Castalia mission to Main Belt Comet 133P/Elst-Pizarro. <i>Advances in Space Research</i> , 2018, 62, 1947-1976.	2.6	27
25	Impact ionisation mass spectrometry of platinum-coated olivine and magnesite-dominated cosmic dust analogues. <i>Planetary and Space Science</i> , 2018, 156, 96-110.	1.7	16
26	The Chelyabinsk meteorite: Thermal history and variable shock effects recorded by the $^{40}\text{Ar}$ – $^{39}\text{Ar}$ system. <i>Meteoritics and Planetary Science</i> , 2018, 53, 343-358.	1.6	14
27	Thermal evolution and sintering of chondritic planetesimals. <i>Astronomy and Astrophysics</i> , 2018, 615, A147.	5.1	6
28	The cryptotephra record of the Marine Isotope Stage 12 to 10 interval (460–335 ka) at Tenaghi Philippon, Greece: Exploring chronological markers for the Middle Pleistocene of the Mediterranean region. <i>Quaternary Science Reviews</i> , 2018, 200, 313-333.	3.0	23
29	Noble gases in micrometeorites from the Transantarctic Mountains. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 242, 266-297.	3.9	10
30	Macromolecular organic compounds from the depths of Enceladus. <i>Nature</i> , 2018, 558, 564-568.	27.8	282
31	Origin of <sc>EL</sc>3 chondrites: Evidence for variable C/O ratios during their course of formation—A state of the art scrutiny. <i>Meteoritics and Planetary Science</i> , 2017, 52, 781-806.	1.6	39
32	Annama H chondrite—Mineralogy, physical properties, cosmic ray exposure, and parent body history. <i>Meteoritics and Planetary Science</i> , 2017, 52, 1525-1541.	1.6	22
33	Spatial distribution of carbon dust in the early solar nebula and the carbon content of planetesimals. <i>Astronomy and Astrophysics</i> , 2017, 606, A16.	5.1	36
34	Trapped extraterrestrial argon in meteorites. <i>Geochemistry International</i> , 2017, 55, 971-976.	0.7	7
35	He, Ne, Ar stepwise crushing data on basalt glasses from different segments of Bouvet Triple Junction. <i>Geochemistry International</i> , 2017, 55, 977-987.	0.7	6
36	Light noble gas data in Guli massif carbonatites reveal the subcontinental lithospheric mantle as primary fluid source. <i>Geochemistry International</i> , 2017, 55, 457-464.	0.7	7

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37	The two Suvasvesi impact structures, Finland: Argon isotopic evidence for a "false" impact crater doublet. <i>Meteoritics and Planetary Science</i> , 2016, 51, 966-980.	1.6	9
38	Thermal evolution and sintering of chondritic planetesimals. <i>Astronomy and Astrophysics</i> , 2016, 589, A41.	5.1	22
39	Flux and composition of interstellar dust at Saturn from Cassini's Cosmic Dust Analyzer. <i>Science</i> , 2016, 352, 312-318.	12.6	97
40	Thermal and irradiation history of lunar meteorite Dhofar 280. <i>Meteoritics and Planetary Science</i> , 2016, 51, 2334-2346.	1.6	8
41	The Cretaceous-Palaeogene boundary at Gorgonilla Island, Colombia, South America. <i>Terra Nova</i> , 2016, 28, 83-90.	2.1	19
42	<sup>136</sup> Xe ages of enstatite chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 174, 196-210.	3.9	5
43	Coeval ages of Australasian, Central American and Western Canadian tektites reveal multiple impacts 790 ka ago. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 178, 307-319.	3.9	30
44	Thermal evolution and sintering of chondritic planetesimals. <i>Astronomy and Astrophysics</i> , 2015, 576, A60.	5.1	21
45	New <sup>40</sup> Ar/ <sup>39</sup> Ar dating of the Clearwater Lake impact structures (Quebec, Canada) "Not the binary asteroid impact it seems?". <i>Geochimica Et Cosmochimica Acta</i> , 2015, 148, 304-324.	3.9	29
46	Early cosmic ray irradiation of chondrules and prolonged accretion of primitive meteorites. <i>Earth and Planetary Science Letters</i> , 2015, 423, 13-23.	4.4	13
47	The formation of the solar system. <i>Physica Scripta</i> , 2015, 90, 068001.	2.5	51
48	A Carnian <sup>40</sup> Ar/ <sup>39</sup> Ar age for the PaasselkÃ impact structure (SE) Tj ETQq0 0,0 rgBT /Oyerlock 10	1.6	6
49	COSIMA-Rosetta calibration for in situ characterization of 67P/Churyumov-Gerasimenko cometary inorganic compounds. <i>Planetary and Space Science</i> , 2015, 117, 35-44.	1.7	15
50	Coordinated Microanalyses of Seven Particles of Probable Interstellar Origin from the Stardust Mission.. <i>Microscopy and Microanalysis</i> , 2014, 20, 1692-1693.	0.4	9
51	Calibration of relative sensitivity factors for impact ionization detectors with high-velocity silicate microparticles. <i>Icarus</i> , 2014, 241, 336-345.	2.5	22
52	Stardust Interstellar Preliminary Examination X: Impact speeds and directions of interstellar grains on the Stardust dust collector. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1680-1697.	1.6	24
53	Morphology of craters generated by hypervelocity impacts of micron-sized polypyrrole-coated olivine particles. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1375-1387.	1.6	6
54	Stardust Interstellar Preliminary Examination IX: High-speed interstellar dust analog capture in Stardust flight spare aerogel. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1666-1679.	1.6	19

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55	Stardust Interstellar Preliminary Examination <sup>XI</sup>: Identification and elemental analysis of impact craters on Al foils from the Stardust Interstellar Dust Collector. Meteoritics and Planetary Science, 2014, 49, 1698-1719.	1.6	16
56	Stardust Interstellar Preliminary Examination VIII: Identification of crystalline material in two interstellar candidates. Meteoritics and Planetary Science, 2014, 49, 1645-1665.	1.6	12
57	The science case for an orbital mission to Uranus: Exploring the origins and evolution of ice giant planets. Planetary and Space Science, 2014, 104, 122-140.	1.7	56
58	Stardust Interstellar Preliminary Examination <sup>VII</sup>: Synchrotron X-ray fluorescence analysis of six Stardust interstellar candidates measured with the Advanced Photon Source 2-Å microprobe. Meteoritics and Planetary Science, 2014, 49, 1626-1644.	1.6	13
59	Stardust Interstellar Preliminary Examination <sup>VI</sup>: Quantitative elemental analysis by synchrotron X-ray fluorescence nanoimaging of eight impact features in aerogel. Meteoritics and Planetary Science, 2014, 49, 1612-1625.	1.6	12
60	<sup>39</sup> Ar- <sup>40</sup> Ar chronology of the enstatite chondrite parent bodies. Meteoritics and Planetary Science, 2014, 49, 358-372.	1.6	15
61	Stardust Interstellar Preliminary Examination V: XRF analyses of interstellar dust candidates at ESRF ID 13. Meteoritics and Planetary Science, 2014, 49, 1594-1611.	1.6	12
62	Final reports of the Stardust Interstellar Preliminary Examination. Meteoritics and Planetary Science, 2014, 49, 1720-1733.	1.6	29
63	Stardust Interstellar Preliminary Examination <sup>II</sup>: Curating the interstellar dust collector, picokeystones, and sources of impact tracks. Meteoritics and Planetary Science, 2014, 49, 1522-1547.	1.6	18
64	Stardust Interstellar Preliminary Examination <sup>III</sup>: Infrared spectroscopic analysis of interstellar dust candidates. Meteoritics and Planetary Science, 2014, 49, 1548-1561.	1.6	12
65	Stardust Interstellar Preliminary Examination I: Identification of tracks in aerogel. Meteoritics and Planetary Science, 2014, 49, 1509-1521.	1.6	16
66	Stardust Interstellar Preliminary Examination <sup>IV</sup>: Scanning transmission X-ray microscopy analyses of impact features in the Stardust Interstellar Dust Collector. Meteoritics and Planetary Science, 2014, 49, 1562-1593.	1.6	18
67	Evidence for interstellar origin of seven dust particles collected by the Stardust spacecraft. Science, 2014, 345, 786-791.	12.6	152
68	Impact ionisation mass spectrometry of polypyrrole-coated pyrrhotite microparticles. Planetary and Space Science, 2014, 97, 9-22.	1.7	21
69	Numerical modelling of mineral impact ionisation spectra. Planetary and Space Science, 2013, 89, 159-166.	1.7	1
70	PHOTOPHORETIC SEPARATION OF METALS AND SILICATES: THE FORMATION OF MERCURY-LIKE PLANETS AND METAL DEPLETION IN CHONDRITES. Astrophysical Journal, 2013, 769, 78.	4.5	78
71	Thermal evolution model for the H chondrite asteroid-instantaneous formation versus protracted accretion. Icarus, 2013, 226, 212-228.	2.5	61
72	Das Alter des Meteoritenkraters Nördlinger Ries – eine –bersicht und kurze Diskussion der neueren Datierungen des. Zeitschrift Der Deutschen Gesellschaft Fur Geowissenschaften, 2013, 164, 433-445.	0.4	21

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73	Thermal evolution and sintering of chondritic planetesimals. <i>Astronomy and Astrophysics</i> , 2012, 537, A45.	5.1	67
74	Thermal history modelling of the H <sup>+</sup> chondrite parent body. <i>Astronomy and Astrophysics</i> , 2012, 545, A135.	5.1	61
75	SARIM PLUS <sup>+</sup> sample return of comet 67P/CG and of interstellar matter. <i>Experimental Astronomy</i> , 2012, 33, 723-751.	3.7	3
76	Random projection for dimensionality reduction <sup>+</sup> Applied to time-of-flight secondary ion mass spectrometry data. <i>Analytica Chimica Acta</i> , 2011, 705, 48-55.	5.4	13
77	Comment on the <sup>+</sup> joint determination of 40K decay constants and 40Ar <sup>+</sup> /40K for the Fish Canyon sanidine standard, and improved accuracy for 40Ar/39Ar geochronology <sup>+</sup> by Paul R. Renne et al. (2010). <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 5094-5096.	3.9	49
78	The L3 <sup>+</sup> 6 chondritic regolith breccia Northwest Africa (NWA) 869: (I) Petrology, chemistry, oxygen isotopes, and Ar <sup>+</sup> Ar age determinations. <i>Meteoritics and Planetary Science</i> , 2011, 46, 652-680.	1.6	40
79	<sup>+</sup> 40 <sup>+</sup> Ar/ <sup>+</sup> 39 <sup>+</sup> Ar and cosmic <sup>+</sup> ray exposure ages of nakhlites <sup>+</sup> Nakhla, Lafayette, Governador Valadares <sup>+</sup> and Chassigny. <i>Meteoritics and Planetary Science</i> , 2011, 46, 1397-1417.	1.6	31
80	Compositional mapping of planetary moons by mass spectrometry of dust ejecta. <i>Planetary and Space Science</i> , 2011, 59, 1815-1825.	1.7	33
81	Evaluation of neutron sources for ISAGE <sup>+</sup> in-situ-NAA for a future lunar mission. <i>Applied Radiation and Isotopes</i> , 2011, 69, 1625-1629.	1.5	3
82	Thermal conductivity measurements of porous dust aggregates: I. Technique, model and first results. <i>Icarus</i> , 2011, 214, 286-296.	2.5	76
83	Vibrational spectroscopy of SiO on Si(111). <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2179-2184.	1.5	11
84	40Ar-39Ar dating of volcanic rocks from the Fernando de Noronha Archipelago. <i>Geochemistry International</i> , 2010, 48, 1035-1038.	0.7	2
85	Distribution of Mantle and Atmospheric Argon in Mantle Xenoliths from the Western Arabian Peninsula: Constraints on Timing and Composition of Metasomatizing Agents in the Lithospheric Mantle. <i>Journal of Petrology</i> , 2010, 51, 2547-2570.	2.8	9
86	New U <sup>+</sup> Pb and 40Ar/39Ar ages from the northern margin of the Barberton greenstone belt, South Africa: Implications for the formation of Mesoarchaean gold deposits. <i>Precambrian Research</i> , 2010, 179, 206-220.	2.7	49
87	A Middle-Late Triassic 40Ar/39Ar age for the Paasselk <sup>+</sup> impact structure (SE Finland). <i>Meteoritics and Planetary Science</i> , 2010, 45, 572-582.	1.6	9
88	Establishing a 14.6 $\pm$ 0.2 Ma age for the N <sup>+</sup> rdlinger Ries impact (Germany)-A prime example for concordant isotopic ages from various dating materials. <i>Meteoritics and Planetary Science</i> , 2010, 45, 662-674.	1.6	44
89	A Rhaetian <sup>+</sup> 40 <sup>+</sup> Ar/ <sup>+</sup> 39 <sup>+</sup> Ar age for the Rochechouart impact structure (France) and implications for the latest Triassic sedimentary record. <i>Meteoritics and Planetary Science</i> , 2010, 45, 1225-1242.	1.6	54
90	Hyperfine spectroscopy of the 1s5 <sup>+</sup> 2p <sup>+</sup> 9 transition of A39r. <i>Review of Scientific Instruments</i> , 2009, 80, 113109.	1.3	9

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91	The production of platinum-coated silicate nanoparticle aggregates for use in hypervelocity impact experiments. <i>Planetary and Space Science</i> , 2009, 57, 2081-2086.	1.7	30
92	Sample return of interstellar matter (SARIM). <i>Experimental Astronomy</i> , 2009, 23, 303-328.	3.7	13
93	Discriminating contamination from particle components in spectra of Cassini's dust detector CDA. <i>Planetary and Space Science</i> , 2009, 57, 1359-1374.	1.7	35
94	Noble gas and nitrogen isotopic components in Oceanic Island Basalts. <i>Chemical Geology</i> , 2009, 266, 29-37.	3.3	17
95	Shergottites Dhofar 019, SaU 005, Shergotty, and Zagami: $^{40}\text{Ar}/^{39}\text{Ar}$ chronology and trapped Martian atmospheric and interior argon. <i>Meteoritics and Planetary Science</i> , 2009, 44, 293-321.	1.6	16
96	STARDUST FROM ASYMPTOTIC GIANT BRANCH STARS. <i>Astrophysical Journal</i> , 2009, 698, 1136-1154.	4.5	84
97	$^{40}\text{Ar}/^{39}\text{Ar}$ -ages of phlogopite in mantle xenoliths from South African kimberlites: Evidence for metasomatic mantle impregnation during the Kibaran orogenic cycle. <i>Lithos</i> , 2008, 106, 351-364.	1.4	59
98	Helium loss from Martian meteorites mainly induced by shock metamorphism: Evidence from new data and a literature compilation. <i>Meteoritics and Planetary Science</i> , 2008, 43, 1841-1859.	1.6	35
99	The Isheyev meteorite: Mineralogy, petrology, bulk chemistry, oxygen, nitrogen, carbon isotopic compositions, and $^{40}\text{Ar}/^{39}\text{Ar}$ ages. <i>Meteoritics and Planetary Science</i> , 2008, 43, 915-940.	1.6	69
100	Infrared Spectroscopy of Calcium-Aluminum-Rich Inclusions: Analog Material for Protoplanetary Dust?. <i>Astrophysical Journal</i> , 2007, 656, 615-620.	4.5	18
101	Noble gas compositions of the lithospheric mantle below the Chyulu Hills volcanic field, Kenya. <i>Earth and Planetary Science Letters</i> , 2007, 261, 635-648.	4.4	25
102	Heterogeneous mantle argon isotope composition in the subcontinental lithospheric mantle beneath the Red Sea region. <i>Chemical Geology</i> , 2007, 240, 36-53.	3.3	27
103	Intercalibration of $^{40}\text{Ar}/^{39}\text{Ar}$ age standards NL-25, HB3gr hornblende, GA1550, SB-3, HD-B1 biotite and BMus/2 muscovite. <i>Chemical Geology</i> , 2007, 242, 218-231.	3.3	109
104	Chondrite asteroid breakup tied to Ordovician meteorite shower by multiple isochron $^{40}\text{Ar}/^{39}\text{Ar}$ dating. <i>Meteoritics and Planetary Science</i> , 2007, 42, 113-130.	1.6	192
105	Subduction of solar-type noble gases from extraterrestrial dust: constraints from high-pressure low-temperature metamorphic deep-sea sediments. <i>Contributions To Mineralogy and Petrology</i> , 2005, 149, 675-684.	3.1	13
106	$^{40}\text{Ar}/^{39}\text{Ar}$ dating and cosmic ray exposure time of desert meteorites: Dhofar 300 and Dhofar 007 eucrites and anomalous achondrite NWA 011. <i>Meteoritics and Planetary Science</i> , 2005, 40, 1433-1454.	1.6	23
107	Argon isotope fractionation induced by stepwise heating. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 1253-1264.	3.9	26
108	Noble gas isotopes suggest deep mantle plume source of late Cenozoic mafic alkaline volcanism in Europe. <i>Earth and Planetary Science Letters</i> , 2005, 230, 143-162.	4.4	86

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109	Refining the noble gas record of the R <sup>A</sup> ©union mantle plume source: Implications on mantle geochemistry. <i>Earth and Planetary Science Letters</i> , 2005, 240, 573-588.	4.4	36
110	Isotope systematics of noble gases in the Earth's mantle: possible sources of primordial isotopes and implications for mantle structure. <i>Physics of the Earth and Planetary Interiors</i> , 2005, 148, 13-38.	1.9	81
111	Neon isotopes in mantle rocks from the Red Sea region reveal large-scale plume-lithosphere interaction. <i>Earth and Planetary Science Letters</i> , 2004, 219, 61-76.	4.4	60
112	Structure and thermal history of the H-chondrite parent asteroid revealed by thermochronometry. <i>Nature</i> , 2003, 422, 502-506.	27.8	267
113	The distribution of mantle and atmospheric argon in oceanic basalt glasses. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 1237-1253.	3.9	44
114	Noble gas systematics of the R <sup>A</sup> ©union mantle plume source and the origin of primordial noble gases in Earth's mantle. <i>Earth and Planetary Science Letters</i> , 2002, 200, 297-313.	4.4	95
115	Comment on "40Ar/39Ar age of plagioclase from Acapulco meteorite and the problem of systematic errors in cosmochronology" by Paul R. Renne. <i>Earth and Planetary Science Letters</i> , 2001, 190, 267-269.	4.4	26
116	The Nature of Pristine Noble Gases in Mantle Plumes. <i>Science</i> , 2000, 288, 1036-1038.	12.6	263
117	The age of the Kara impact structure, Russia. <i>Meteoritics and Planetary Science</i> , 1998, 33, 361-372.	1.6	45
118	Noble gases, their carrier phases, and argon chronology of upper mantle rocks from Zabargad Island, Red Sea. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 5065-5088.	3.9	24
119	The collisional history of the HED parent body inferred from 40Ar-39Ar ages of eucrites. <i>Planetary and Space Science</i> , 1995, 43, 527-543.	1.7	31