

Marcel Guillong

List of Publications by Year in descending order

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110
papers

6,051
citations

108046

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81351

76
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117
all docs

117
docs citations

117
times ranked

4778
citing authors

#	ARTICLE	IF	CITATIONS
1	The Siah Cheshmeh-Khoy-Misho-Tabriz fault (NW Iran) is a cryptic neotethys suture: evidence from detrital zircon geochronology, Hf isotopes, and provenance analysis. <i>International Geology Review</i> , 2022, 64, 182-202.	1.1	10
2	Evaluating the Potential of Rhyolitic Glass as a Lithium Source for Brine Deposits. <i>Economic Geology</i> , 2022, 117, 91-105.	1.8	14
3	SS14 ϵ 28: An Age Reference Material for Zircon U ϵ Th Disequilibrium Dating. <i>Geostandards and Geoanalytical Research</i> , 2022, 46, 57-69.	1.7	4
4	Garnet petrochronology reveals the lifetime and dynamics of phonolitic magma chambers at Somma-Vesuvius. <i>Science Advances</i> , 2022, 8, eabk2184.	4.7	2
5	Sulfide-associated hydrothermal dolomite and calcite reveal a shallow burial depth for Alpine-type Zn-(Pb) deposits. <i>Geology</i> , 2022, 50, 853-858.	2.0	10
6	Quantifying Long-Term Reproducibility of Zircon Reference Materials by U ϵ Pb LA-ICP-MS Dating. <i>Geostandards and Geoanalytical Research</i> , 2022, 46, 401-409.	1.7	6
7	Zircon U-Pb geochronology and trace element dataset from the Southern Rocky Mountain Volcanic Field, Colorado, USA. <i>Data in Brief</i> , 2022, 43, 108362.	0.5	2
8	<i>In Situ</i> $^{230}\text{Th}/^{238}\text{U}$ Geochronology of Young Volcanic Rocks on Inclusion-Bearing Ilmenite. <i>Geostandards and Geoanalytical Research</i> , 2022, 46, 465-475.	1.7	2
9	Crustal thickness, rift-drift and potential links to key global events. <i>Terra Nova</i> , 2021, 33, 12-20.	0.9	2
10	Primary crystallization and partial remelting of chondrules in the protoplanetary disk: Petrographic, mineralogical and chemical constraints recorded in zoned type-I chondrules. <i>Geochimica et Cosmochimica Acta</i> , 2021, 292, 499-517.	1.6	8
11	Provenance and tectonic implications of the Carboniferous sediments in the Bainaimiao arc belt, northern margin of the North China Craton: evidence from detrital zircon U ϵ Pb-Hf isotopes and trace elements. <i>International Journal of Earth Sciences</i> , 2021, 110, 331-351.	0.9	1
12	Fine tuning laser focus for improved reproducibility of U ϵ Pb isotope analysis by LA-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 836-844.	1.6	6
13	Tephrostratigraphy and Magma Evolution Based on Combined Zircon Trace Element and U-Pb Age Data: Fingerprinting Miocene Silicic Pyroclastic Rocks in the Pannonian Basin. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	11
14	Obsidian pyroclasts in the Yellowstone-Snake River Plain ignimbrites are dominantly juvenile in origin. <i>Bulletin of Volcanology</i> , 2021, 83, 1.	1.1	2
15	Absolute Age and Temperature Constraints on Deformation Along the Basal D ϵ collement of the Jura Fold ϵ and ϵ Thrust Belt From Carbonate U ϵ Pb Dating and Clumped Isotopes. <i>Tectonics</i> , 2021, 40, e2020TC006439.	1.3	26
16	Young Silicic Magmatism of the Greater Caucasus, Russia, with implication for its delamination origin based on zircon petrochronology and thermomechanical modeling. <i>Journal of Volcanology and Geothermal Research</i> , 2021, 412, 107173.	0.8	13
17	Geochronology and geochemistry data for the Elbrus, Tyrnyauz, and Chegem magmatic centers, Greater Caucasus, Russia. <i>Data in Brief</i> , 2021, 35, 106896.	0.5	2
18	Monitoring air pollution close to a cement plant and in a multi-source industrial area through tree-ring analysis. <i>Environmental Science and Pollution Research</i> , 2021, 28, 54030-54040.	2.7	8

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19	Copper-mineralised porphyries sample the evolution of a large-volume silicic magma reservoir from rapid assembly to solidification. <i>Earth and Planetary Science Letters</i> , 2021, 563, 116877.	1.8	21
20	Zircon geochronology suggests a long-living and active magmatic system beneath the Ciomadul volcanic dome field (eastern-central Europe). <i>Earth and Planetary Science Letters</i> , 2021, 565, 116965.	1.8	14
21	Periodically Released Magmatic Fluids Create a Texture of Unidirectional Solidification (UST) in Ore-Forming Granite: A Fluid and Melt Inclusion Study of W-Mo Forming Sannae-Eonyang Granite, Korea. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 888.	0.8	6
22	Metasomatism and cyclic skarn growth along lithological contacts: Physical and geochemical evidence from a distal Pb Zn skarn. <i>Lithos</i> , 2021, 400-401, 106408.	0.6	5
23	Advantages of a fast-scanning quadrupole for LA-ICP-MS analysis of fluid inclusions. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 2043-2050.	1.6	6
24	U–Pb dating of middle Eocene–Pliocene multiple tectonic pulses in the Alpine foreland. <i>Solid Earth</i> , 2021, 12, 2539-2551.	1.2	10
25	Permian felsic volcanic rocks in the Pannonian Basin (Hungary): new petrographic, geochemical, and geochronological results. <i>International Journal of Earth Sciences</i> , 2020, 109, 101-125.	0.9	17
26	Melt inclusions in quartz from felsic volcanic rocks of the Iberian Pyrite Belt: Clues for magmatic ore metal transfer towards VMS-forming systems. <i>Ore Geology Reviews</i> , 2020, 126, 103743.	1.1	9
27	Revealing exhumation of the central Alps during the Early Oligocene by detrital zircon U–Pb age and fission-track double dating in the Taveyannaz Formation. <i>International Journal of Earth Sciences</i> , 2020, 109, 2425-2446.	0.9	5
28	U-Th zircon dating reveals a correlation between eruptive styles and repose periods at the Nisyros-Yali volcanic area, Greece. <i>Chemical Geology</i> , 2020, 555, 119830.	1.4	15
29	U–Pb Dating of Zircon and Zirconolite Inclusions in Marble-Hosted Gem-Quality Ruby and Spinel from Mogok, Myanmar. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 195.	0.8	13
30	Evaluating the reliability of U–Pb laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS) carbonate geochronology: matrix issues and a potential calcite validation reference material. <i>Geochronology</i> , 2020, 2, 155-167.	1.0	46
31	Resolving the timescales of magmatic and hydrothermal processes associated with porphyry deposit formation using zircon U–Pb petrochronology. <i>Geochronology</i> , 2020, 2, 209-230.	1.0	23
32	Multiproxy Isotopic and Geochemical Analysis of the Siwalik Sediments in NW India: Implication for the Late Cenozoic Tectonic Evolution of the Himalaya. <i>Tectonics</i> , 2019, 38, 120-143.	1.3	19
33	The pace of crustal-scale magma accretion and differentiation beneath silicic caldera volcanoes. <i>Geology</i> , 2019, 47, 719-723.	2.0	57
34	Rapid Magma Generation or Shared Magmatic Reservoir? Petrology and Geochronology of the Rat Creek and Nelson Mountain Tuffs, CO, USA. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	13
35	Restoring the source-to-sink relationships in the Paleogene foreland basins in the Central and Southern Alps (Switzerland, Italy, France): a detrital zircon study approach. <i>International Journal of Earth Sciences</i> , 2019, 108, 1817-1834.	0.9	16
36	In-situ garnet ²³⁸ U- ²³⁰ Th geochronology of Holocene silica-undersaturated volcanic tuffs at millennial-scale precision. <i>Quaternary Geochronology</i> , 2019, 50, 1-7.	0.6	5

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37	Quenched primary melt in Ramlat as Sahmah 517 " Snapshot of ureilite anatexis in the early solar system. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 246, 1-20.	1.6	7
38	Correction to: Magmatic and tectonic history of Jurassic ophiolites and associated granitoids from the South Apusenii Mountains (Romania). <i>Swiss Journal of Geosciences</i> , 2018, 111, 375-375.	0.5	1
39	Isotope-dilution anchoring of zircon reference materials for accurate Ti-in-zircon thermometry. <i>Chemical Geology</i> , 2018, 481, 146-154.	1.4	34
40	Early to Mid-Miocene syn-extensional massive silicic volcanism in the Pannonian Basin (East-Central Europe). <i>Journal of Petrology</i> , 2018, 119, 1-19.	4.0	65
41	Metasomatized mantle as the source of Mid-Miocene-Quaternary volcanism in NW-Iranian Azerbaijan: Geochronological and geochemical evidence. <i>Lithos</i> , 2018, 304-307, 311-328.	0.6	33
42	LA-ICP-MS and SIMS U-Pb and U-Th zircon geochronological data of Late Pleistocene lava domes of the Ciomadul Volcanic Dome Complex (Eastern Carpathians). <i>Data in Brief</i> , 2018, 18, 808-813.	0.5	9
43	Dispersal pathways in the early Messinian Adriatic foreland and provenance of the Laga Formation (Central Apennines, Italy). <i>Sedimentary Geology</i> , 2018, 375, 289-308.	1.0	12
44	Oak tree-rings record spatial-temporal pollution trends from different sources in Terni (Central Italy). <i>Journal of Environmental Monitoring</i> , 2018, 20, 504-510.	3.7	38
45	Magma Evolution Leading to Porphyry Au-Cu Mineralization at the Ok Tedi Deposit, Papua New Guinea: Trace Element Geochemistry and High-Precision Geochronology of Igneous Zircon. <i>Economic Geology</i> , 2018, 113, 39-61.	1.8	64
46	Lateral magma propagation during the emplacement of La Gloria Pluton, central Chile. <i>Geology</i> , 2018, 46, 1051-1054.	2.0	15
47	From Jurassic rifting to Cretaceous subduction in NW Iranian Azerbaijan: geochronological and geochemical signals from granitoids. <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 1.	1.2	26
48	Controls on lithium concentration and diffusion in zircon. <i>Chemical Geology</i> , 2018, 501, 1-11.	1.4	18
49	Post-eruptive mobility of lithium in volcanic rocks. <i>Nature Communications</i> , 2018, 9, 3228.	5.8	40
50	LA-ICP-MS U-Pb zircon geochronology data of the Early to Mid-Miocene syn-extensional massive silicic volcanism in the Pannonian Basin (East-Central Europe). <i>Data in Brief</i> , 2018, 19, 506-513.	0.5	6
51	Zircon petrochronological evidence for a plutonic-volcanic connection in porphyry copper deposits. <i>Geology</i> , 2017, 45, 623-626.	2.0	52
52	A new approach for constraining the magnitude of initial disequilibrium in Quaternary zircons by coupled uranium and thorium decay series dating. <i>Quaternary Geochronology</i> , 2017, 38, 1-12.	0.6	76
53	An experimental study of the behaviour of cerium/molybdenum ratios during subduction: Implications for tracing the slab component in the Lesser Antilles and Mariana Arc. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 212, 133-155.	1.6	32
54	Post-caldera Volcanism at the Heise Volcanic Field: Implications for Petrogenetic Models. <i>Journal of Petrology</i> , 2017, 58, 115-136.	1.1	22

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55	Split-grain $^{40}\text{Ar}/^{39}\text{Ar}$ dating: Integrating temporal and geochemical data from crystal cargoes. <i>Chemical Geology</i> , 2017, 457, 15-23.	1.4	22
56	Improved accuracy of LA-ICP-MS U-Pb ages of Cenozoic zircons by alpha dose correction. <i>Chemical Geology</i> , 2017, 472, 8-21.	1.4	42
57	Arc magmatism witnessed by detrital zircon U-Pb geochronology, Hf isotopes and provenance analysis of Late Cretaceous-Miocene sandstones of onshore western Makran (SE Iran). <i>Numerische Mathematik</i> , 2017, 317, 941-964.	0.7	18
58	Protracted near-solidus storage and pre-eruptive rejuvenation of large magma reservoirs. <i>Nature Geoscience</i> , 2017, 10, 777-782.	5.4	108
59	New detrital zircon age and trace element evidence for 1450 Ma igneous zircon sources in East Antarctica. <i>Precambrian Research</i> , 2017, 300, 53-58.	1.2	12
60	Magmatic and tectonic history of Jurassic ophiolites and associated granitoids from the South Apuseni Mountains (Romania). <i>Swiss Journal of Geosciences</i> , 2017, 110, 699-719.	0.5	27
61	Detrital zircon ages and trace element compositions of Permian–Triassic foreland basin strata of the Gondwanide orogen, Antarctica. , 2017, 13, 2085-2093.		11
62	Evidence for a spike in mantle carbon outgassing during the Ediacaran period. <i>Nature Geoscience</i> , 2017, 10, 930-934.	5.4	21
63	Detrital zircon ages from the Ross Supergroup, north Victoria Land, Antarctica: Implications for the tectonostratigraphic evolution of the Pacific-Gondwana margin. <i>Gondwana Research</i> , 2016, 35, 79-96.	3.0	31
64	Tracing the depositional history of Kalimantan diamonds by zircon provenance and diamond morphology studies. <i>Lithos</i> , 2016, 265, 159-176.	0.6	38
65	A continental arc tempo discovered in the Pacific-Gondwana margin mudpile?. <i>Geology</i> , 2016, 44, 915-918.	2.0	15
66	$^{206}\text{Pb}/^{238}\text{U}$ Zircon Dating by Laser Ablation Single Collector Inductively Coupled Plasma–Mass Spectrometry (<sc>LA</sc>–<sc>ICP</sc>–<sc>MS</sc>). <i>Geostandards and Geoanalytical Research</i> , 2016, 40, 377-387.	1.7	25
67	Relations between basalts and adakitic–felsic intrusive bodies in a soft-substrate environment: the South Ouessant Visean basin in the Variscan belt, Armorican Massif, France. <i>Canadian Journal of Earth Sciences</i> , 2016, 53, 441-456.	0.6	7
68	Bridging basalts and rhyolites in the Yellowstone–Snake River Plain volcanic province: The elusive intermediate step. <i>Earth and Planetary Science Letters</i> , 2015, 415, 80-89.	1.8	34
69	Mid-crustal detachment beneath western Tibet exhumed where conjugate Karakoram and Longmu–Gozha Co faults intersect. <i>Earth and Planetary Science Letters</i> , 2015, 413, 144-157.	1.8	22
70	Comment on “Zircon $^{206}\text{Pb}/^{238}\text{U}$ dating using LA-ICP-MS: Simultaneous ^{206}Pb and ^{207}Pb dating on 0.1Ma Toya Tephra, Japan” by Hisatoshi Ito. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 296, 101-103.	0.8	13
71	Petrogenesis of late-Variscan high-K alkali-calcic granitoids and calc-alkalic lamprophyres: The Aber-Ildut/North-Ouessant complex, Armorican Massif, France. <i>Lithos</i> , 2015, 238, 140-155.	0.6	11
72	Zircon geochronology and geochemistry to constrain the youngest eruption events and magma evolution of the Mid-Miocene ignimbrite flare-up in the Pannonian Basin, eastern central Europe. <i>Contributions To Mineralogy and Petrology</i> , 2015, 170, 1.	1.2	114

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73	LA-ICP-MS Pb-U dating of young zircons from the Kos-Nisyros volcanic centre, SE Aegean arc. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 963-970.	1.6	97
74	U-Pb dating of CA/non-CA treated zircons obtained by LA-ICP-MS and CA-TIMS techniques: impact for their geological interpretation. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1618-1629.	1.6	56
75	The zircon "matrix effect": evidence for an ablation rate control on the accuracy of U-Pb age determinations by LA-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 981-989.	1.6	77
76	Depth dependent element ratios in fluid inclusion analysis by laser ablation ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 505.	1.6	13
77	Separation of Molybdenum and Copper in Porphyry Deposits: The Roles of Sulfur, Redox, and pH in Ore Mineral Deposition at Bingham Canyon. <i>Economic Geology</i> , 2012, 107, 333-356.	1.8	125
78	Recent developments in element concentration and isotope ratio analysis of individual fluid inclusions by laser ablation single and multiple collector ICP-MS. <i>Ore Geology Reviews</i> , 2012, 44, 10-38.	1.1	227
79	The effect of quadrupole ICPMS interface and ion lens design on argide formation. Implications for LA-ICPMS analysis of PGE's in geological samples. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1401.	1.6	34
80	Interaction of magmatic fluids and silicate melt residues with saline groundwater in the footwall of the Sudbury Igneous Complex, Ontario, Canada: New evidence from bulk rock geochemistry, fluid inclusions and stable isotopes. <i>Chemical Geology</i> , 2011, 281, 1-25.	1.4	44
81	Fluid evolution in zoned Cordilleran polymetallic veins " Insights from microthermometry and LA-ICP-MS of fluid inclusions. <i>Chemical Geology</i> , 2011, 281, 293-304.	1.4	55
82	Microanalysis of S, Cl, and Br in fluid inclusions by LA-ICP-MS. <i>Chemical Geology</i> , 2011, 284, 35-35.	1.4	102
83	Gold solubility in oxidized and reduced, water-saturated mafic melt. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 1718-1732.	1.6	25
84	LA-ICP-MS analysis of single fluid inclusions in a quartz crystal (Madan ore district, Bulgaria). <i>Journal of Geochemical Exploration</i> , 2011, 108, 163-175.	1.5	13
85	Magmatic degassing of ore-metals at the Menez Gwen: Input from the Azores plume into an active Mid-Atlantic Ridge seafloor hydrothermal system. <i>Earth and Planetary Science Letters</i> , 2011, 310, 145-160.	1.8	12
86	Subepithermal Au-Pd Mineralization Associated with an Alkalic Porphyry Cu-Au Deposit, Mount Milligan, Quesnel Terrane, British Columbia, Canada. <i>Economic Geology</i> , 2011, 106, 781-808.	1.8	58
87	Magmatic Enrichment of Uranium, Thorium, and Rare Earth Elements in Late Paleozoic Rhyolites of Southern New Brunswick, Canada: Evidence from Silicate Melt Inclusions. <i>Economic Geology</i> , 2011, 106, 127-143.	1.8	14
88	Laser ablation U/Pb age patterns of detrital zircons in the Schlieren Flysch (Central Switzerland): new evidence on the detrital sources. <i>Swiss Journal of Geosciences</i> , 2011, 104, .	0.5	20
89	The Bingham Canyon Porphyry Cu-Mo-Au Deposit. III. Zoned Copper-Gold Ore Deposition by Magmatic Vapor Expansion. <i>Economic Geology</i> , 2010, 105, 91-118.	1.8	187
90	Alkali metals control the release of gold from volatile-rich magmas. <i>Earth and Planetary Science Letters</i> , 2010, 297, 50-56.	1.8	116

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91	The role of sulfur in the formation of magmatic-hydrothermal copper-gold deposits. <i>Earth and Planetary Science Letters</i> , 2009, 282, 323-328.	1.8	154
92	Diffusive reequilibration of quartz-hosted silicate melt and fluid inclusions: Are all metal concentrations unmodified?. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 3013-3027.	1.6	97
93	Experimental constraints on Pt, Pd and Au partitioning and fractionation in silicate melt-sulfide-oxide-aqueous fluid systems at 800°C, 150MPa and variable sulfur fugacity. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 5778-5792.	1.6	52
94	Determination of fluid/melt partition coefficients by LA-ICPMS analysis of co-existing fluid and silicate melt inclusions: Controls on element partitioning. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 2169-2197.	1.6	368
95	Determination of sulfur in fluid inclusions by laser ablation ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 1581.	1.6	83
96	A laser ablation system for the analysis of radioactive samples using inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 399-402.	1.6	27
97	Analysis of xenon gas inclusions in nuclear fuel using laser ablation ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 1266.	1.6	12
98	Sensitivity enhancement in laser ablation ICP-MS using small amounts of hydrogen in the carrier gas. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 1488.	1.6	118
99	MPI-DING reference glasses for in situ microanalysis: New reference values for element concentrations and isotope ratios. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	1.0	563
100	Preliminary Characterisation of New Glass Reference Materials (GSA-1G, GSC-1G, GSD-1G and GSE-1G) by Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry Using 193 nm, 213 nm and 266 nm Wavelengths. <i>Geostandards and Geoanalytical Research</i> , 2005, 29, 315-331.	2.0	154
101	Size-related vaporisation and ionisation of laser-induced glass particles in the inductively coupled plasma. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 378, 1069-1074.	1.9	140
102	Application of a particle separation device to reduce inductively coupled plasma-enhanced elemental fractionation in laser ablation-inductively coupled plasma-mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2003, 58, 211-220.	1.5	95
103	Evaluation and design of a solid-state 193 nm OPO-Nd:YAG laser ablation system. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2003, 58, 1837-1846.	1.5	30
104	Quantitative multi-element analysis of minerals, fluid and melt inclusions by laser-ablation inductively-coupled-plasma mass-spectrometry. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3473-3497.	1.6	484
105	A comparison of 266 nm, 213 nm and 193 nm produced from a single solid state Nd:YAG laser for laser ablation ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 1224-1230.	1.6	215
106	Effect of particle size distribution on ICP-induced elemental fractionation in laser ablation-inductively coupled plasma-mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 831-837.	1.6	324
107	Capabilities of a homogenized 266nm Nd:YAG laser ablation system for LA-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 8-14.	1.6	47
108	Wavelength dependant ablation rates for metals and silicate glasses using homogenized laser beam profiles - implications for LA-ICP-MS. <i>Applied Surface Science</i> , 2001, 182, 91-102.	3.1	164

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109	Quasi "non-destructive" laser ablation-inductively coupled plasma-mass spectrometry fingerprinting of sapphires. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2001, 56, 1219-1231.	1.5	75
110	Rhyolite Generation prior to a Yellowstone Supereruption: Insights from the Island Park "Mount Jackson Rhyolite Series. <i>Journal of Petrology</i> , 0, , egw071.	1.1	9