

Michael J Cheadle

List of Publications by Year in descending order

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28
papers

1,693
citations

331670

21
h-index

501196

28
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28
all docs

28
docs citations

28
times ranked

1423
citing authors

#	ARTICLE	IF	CITATIONS
1	On the occurrence, trace element geochemistry, and crystallization history of zircon from in situ ocean lithosphere. <i>Contributions To Mineralogy and Petrology</i> , 2009, 158, 757-783.	3.1	242
2	The spatial distribution of grains and crystals in rocks. <i>Contributions To Mineralogy and Petrology</i> , 1996, 125, 60-74.	3.1	133
3	Protracted construction of gabbroic crust at a slow spreading ridge: Constraints from ²⁰⁶ Pb/ ²³⁸ U zircon ages from Atlantis Massif and IODP Hole U1309D (30°N), Tj ETQq 1250.7843145rgBT 0	12.6	90
4	Primitive layered gabbros from fast-spreading lower oceanic crust. <i>Nature</i> , 2014, 505, 204-207.	27.8	125
5	On the Use of Changes in Dihedral Angle to Decode Late-stage Textural Evolution in Cumulates. <i>Journal of Petrology</i> , 2005, 46, 1565-1583.	2.8	102
6	Quantitative modeling of granitic melt generation and segregation in the continental crust. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	90
7	Dating the Growth of Oceanic Crust at a Slow-Spreading Ridge. <i>Science</i> , 2005, 310, 654-657.	12.6	90
8	Determining the cooling history of in situ lower oceanic crust at Atlantis Bank, SW Indian Ridge. <i>Earth and Planetary Science Letters</i> , 2004, 222, 145-160.	4.4	87
9	The rate of oceanic detachment faulting at Atlantis Bank, SW Indian Ridge. <i>Earth and Planetary Science Letters</i> , 2008, 273, 105-114.	4.4	62
10	SHRIMP Pb/U zircon ages constrain gabbroic crustal accretion at Atlantis Bank on the ultraslow-spreading Southwest Indian Ridge. <i>Earth and Planetary Science Letters</i> , 2009, 287, 540-550.	4.4	62
11	Mechanism for generating the anomalous uplift of oceanic core complexes: Atlantis Bank, southwest Indian Ridge. <i>Geology</i> , 2003, 31, 1105.	4.4	61
12	On the identification of textural equilibrium in rocks using dihedral angle measurements. <i>Geology</i> , 1997, 25, 355.	4.4	59
13	Mylonitic deformation at the Kane oceanic core complex: Implications for the rheological behavior of oceanic detachment faults. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 3085-3108.	2.5	56
14	On the cluster analysis of grains and crystals in rocks. <i>American Mineralogist</i> , 2000, 85, 47-67.	1.9	52
15	Nonvolcanic seafloor spreading and corner-flow rotation accommodated by extensional faulting at 15°N on the Mid-Atlantic Ridge: A structural synthesis of ODP Leg 209. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	2.5	47
16	Evolution of the Southwest Indian Ridge from 55°45'E to 62°E: Changes in plate-boundary geometry since 26 Ma. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	2.5	44
17	Dissolution and reprecipitation of igneous zircon in mid-ocean ridge gabbro, Atlantis Bank, Southwest Indian Ridge. <i>Chemical Geology</i> , 2010, 274, 68-81.	3.3	38
18	Cooling rates and the depth of detachment faulting at oceanic core complexes: Evidence from zircon Pb/U and (U-Th)/He ages. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, .	2.5	34

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19	The temporal and spatial distribution of magmatism during lower crustal accretion at an ultraslow-spreading ridge: High-precision Uâ€Pb zircon dating of ODP Holes 735B and 1105A, Atlantis Bank, Southwest Indian Ridge. <i>Earth and Planetary Science Letters</i> , 2016, 449, 395-406.	4.4	30
20	Cooling history of Atlantis Bank oceanic core complex: Evidence for hydrothermal activity 2.6 Ma off axis. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	24
21	On the identification of textural disequilibrium in rocks using dihedral angle measurements: Comment and Reply. <i>Geology</i> , 1997, 25, 1055.	4.4	23
22	The cooling history and the depth of detachment faulting at the Atlantis Massif oceanic core complex. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	22
23	The peridotite plugs of Rum: Crystal settling and fabric development in magma conduits. <i>Lithos</i> , 2012, 134-135, 23-40.	1.4	20
24	Quantifying Three-Dimensional Silicate Fabrics in Cumulates Using Cumulative Distribution Functions. <i>Journal of Petrology</i> , 2004, 45, 1983-2009.	2.8	18
25	Deformation and alteration associated with oceanic and continental detachment fault systems: Are they similar?. <i>Geophysical Monograph Series</i> , 2010, , 175-205.	0.1	17
26	Lattice-preferred orientation and microstructure of peridotites from ODP Hole 1274A (15Â°39â€N), Mid-Atlantic Ridge: Testing models of mantle upwelling and tectonic exhumation. <i>Earth and Planetary Science Letters</i> , 2011, 301, 199-212.	4.4	14
27	Three-dimensional magnetic stripes require slow cooling in fast-spread lower ocean crust. <i>Nature</i> , 2021, 597, 511-515.	27.8	12
28	Making a Crust. <i>Science</i> , 2009, 323, 1017-1018.	12.6	4