

Peter Reiners

List of Publications by Year in descending order

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113
papers

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34105

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116
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6026
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrothermal events in the Linzizong Group: Implications for Paleogene exhumation and paleoaltimetry of the southern Tibetan Plateau. <i>Earth and Planetary Science Letters</i> , 2022, 583, 117390.	4.4	6
2	Krypton-81 Dating Constrains Timing of Deep Groundwater Flow Activation. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	6
3	Rapid erosion of the central Transantarctic Mountains at the Eocene-Oligocene transition: Evidence from skewed (U-Th)/He date distributions near Beardmore Glacier. <i>Earth and Planetary Science Letters</i> , 2021, 567, 117009.	4.4	15
4	Early Mesoproterozoic evolution of midcontinental Laurentia: Defining the geon 14 Baraboo orogeny. <i>Geoscience Frontiers</i> , 2021, 12, 101174.	8.4	18
5	(U-Th)/He and $^{4}\text{He}/^{3}\text{He}$ Thermochronology of Secondary Oxides in Faults and Fractures: A Regional Perspective From Southeastern Arizona. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009905.	2.5	1
6	Thermochronologic perspectives on the deep-time evolution of the deep biosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	11
7	The relationships between tectonics, climate and exhumation in the Central Andes (18°–36°S): Evidence from low-temperature thermochronology. <i>Earth-Science Reviews</i> , 2020, 210, 103276.	9.1	31
8	The thermochronologic record of erosion and magmatism in the Canyonlands region of the Colorado Plateau. <i>Numerische Mathematik</i> , 2019, 319, 339-380.	1.4	21
9	Annealing kinetics of radiation damage in zircon. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 249, 225-246.	3.9	67
10	Bayesian Markov-Chain Monte Carlo Inversion of Low-Temperature Thermochronology Around Two 8 m Wide Columbia River Flood Basalt Dikes. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	15
11	Multiple episodes of fast exhumation since Cretaceous in southeast Tibet, revealed by low-temperature thermochronology. <i>Earth and Planetary Science Letters</i> , 2018, 490, 62-76.	4.4	118
12	Extraterrestrial dust, the marine lithologic record, and global biogeochemical cycles. <i>Geology</i> , 2018, 46, 863-866.	4.4	14
13	Thermochronology of sandstone-hosted secondary Fe- and Mn-oxides near Moab, Utah: Record of paleo-fluid flow along a fault. <i>Bulletin of the Geological Society of America</i> , 2018, 130, 93-113.	3.3	15
14	Rapid Oligocene to Early Miocene Extension Along the Grant Range Detachment System, Nevada, USA: Insights From Multipart Cooling Histories of Footwall Rocks. <i>Tectonics</i> , 2018, 37, 4752-4779.	2.8	15
15	Toward Robust Interpretation of Low-Temperature Thermochronometers in Magmatic Terranes. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 3739-3763.	2.5	29
16	Error Propagation in the Derivation of Noble Gas Diffusion Parameters for Minerals From Step Heating Experiments. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 3706-3720.	2.5	4
17	Unprecedented ^{34}S -enrichment of pyrite formed following microbial sulfate reduction in fractured crystalline rocks. <i>Geobiology</i> , 2018, 16, 556-574.	2.4	34
18	Single-crystal hematite (U-Th)/He dates and fluid inclusions document widespread Cryogenian sand injection in crystalline basement. <i>Earth and Planetary Science Letters</i> , 2018, 500, 145-155.	4.4	26

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19	Thermochronometric and textural evidence for seismicity via asperity flash heating on exhumed hematite fault mirrors, Wasatch fault zone, UT, USA. <i>Earth and Planetary Science Letters</i> , 2017, 471, 85-93.	4.4	32
20	Reconciling regional continuity with local variability in structure, uplift and exhumation of the Timor orogen. <i>Gondwana Research</i> , 2017, 49, 364-386.	6.0	10
21	Zircon, titanite, and apatite (U-Th)/He ages and age-eU correlations from the Fennoscandian Shield, southern Sweden. <i>Tectonics</i> , 2017, 36, 1254-1274.	2.8	50
22	Isotope dilution analysis of Ca and Zr in apatite and zircon (U-Th)/He chronometry. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 1623-1640.	2.5	28
23	Long-term tectonothermal history of Laramide basement from zircon He age-eU correlations. <i>Earth and Planetary Science Letters</i> , 2016, 453, 119-130.	4.4	55
24	Pulsed exhumation of interior eastern Tibet: Implications for relief generation mechanisms and the origin of high-elevation planation surfaces. <i>Earth and Planetary Science Letters</i> , 2016, 449, 176-185.	4.4	100
25	Effects of inherited cores and magmatic overgrowths on zircon (U-Th)/He ages and age-eU trends from Gangotri Himalayan sequence rocks, Mount Everest region, Tibet. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 2499-2507.	2.5	26
26	Linking hematite (U-Th)/He dating with the microtextural record of seismicity in the Wasatch fault damage zone, Utah, USA. <i>Geology</i> , 2015, 43, 771-774.	4.4	48
27	Synorogenic extension localized by upper-crustal thickening: An example from the Late Cretaceous Nevadaplano. <i>Geology</i> , 2015, 43, 351-354.	4.4	24
28	Hematite and Mn oxide (U-Th)/He dates from the Buckskin-Rawhide detachment system, western Arizona: Gaining insights into hematite (U-Th)/He systematics. <i>Numerische Mathematik</i> , 2014, 314, 1373-1435.	1.4	39
29	Detrital zircon U-Pb-He double dating: A method of quantifying long- and short-term exhumation rates in collisional orogens. <i>Science China Earth Sciences</i> , 2014, 57, 2702-2711.	5.2	4
30	Effects of U-Th-rich grain boundary phases on apatite helium ages. <i>Chemical Geology</i> , 2014, 390, 135-151.	3.3	92
31	Low-temperature thermochronologic record of Eocene migmatite dome emplacement and late Cenozoic landscape development, Shuswap core complex, British Columbia. <i>Tectonics</i> , 2014, 33, 1616-1635.	2.8	11
32	Variable exhumation rates and variable displacement rates: Documenting recent slowing of Himalayan shortening in western Bhutan. <i>Earth and Planetary Science Letters</i> , 2014, 386, 161-174.	4.4	75
33	(U-Th)/He geochronology and chemical compositions of diagenetic cement, concretions, and fracture-filling oxide minerals in Mesozoic sandstones of the Colorado Plateau. <i>Bulletin of the Geological Society of America</i> , 2014, 126, 1363-1383.	3.3	40
34	Interpreting date-eU correlations in zircon (U-Th)/He datasets: A case study from the Longmen Shan, China. <i>Earth and Planetary Science Letters</i> , 2014, 403, 328-339.	4.4	72
35	Topographic relief driven by variations in surface rock density. <i>Nature Geoscience</i> , 2014, 7, 534-540.	12.9	66
36	Resolving spatial heterogeneities in exhumation and surface uplift in Timor-Leste: Constraints on deformation processes in young orogens. <i>Tectonics</i> , 2014, 33, 1089-1112.	2.8	21

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37	Helium diffusion in natural zircon: Radiation damage, anisotropy, and the interpretation of zircon (U-Th)/He thermochronology. <i>Numerische Mathematik</i> , 2013, 313, 145-198.	1.4	516
38	Geometric analysis of radiation damage connectivity in zircon, and its implications for helium diffusion. <i>American Mineralogist</i> , 2013, 98, 350-360.	1.9	69
39	The contribution of glacial erosion to shaping the hidden landscape of East Antarctica. <i>Nature Geoscience</i> , 2013, 6, 203-207.	12.9	70
40	(U-Th)/He ages of phosphates from St. S�verin LL6 chondrite. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 100, 282-296.	3.9	13
41	Thermochronologic evidence for plateau formation in central Tibet by 45 Ma. <i>Geology</i> , 2012, 40, 187-190.	4.4	212
42	Generation of Forsteritic Olivine (Fo ₉₉ ±8) by Subsolidus Oxidation in Basaltic Flows. <i>Journal of Petrology</i> , 2012, 53, 971-984.	2.8	32
43	Seismicity and the strange rubbing boulders of the Atacama Desert, northern Chile. <i>Geology</i> , 2012, 40, 851-854.	4.4	20
44	From crucible to graben in 2.3 Ma: A high-resolution geochronological study of porphyry life cycles, Boyongan-Bayugo copper-gold deposits, Philippines. <i>Geology</i> , 2012, 40, 471-474.	4.4	43
45	Low-temperature thermochronology of the northern Rocky Mountains, western U.S.A.. <i>Numerische Mathematik</i> , 2012, 312, 145-212.	1.4	47
46	Paleotopography in the western U.S. Cordillera. <i>Numerische Mathematik</i> , 2012, 312, 81-89.	1.4	1
47	Lithosphere today <i>Nature</i> , 2011, 472, 420-421.	27.8	1
48	Glaciation as a destructive and constructive control on mountain building. <i>Nature</i> , 2010, 467, 313-317.	27.8	219
49	Slab window migration and terrane accretion preserved by low-temperature thermochronology of a magmatic arc, northern Antarctic Peninsula. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	25
50	Extremely low long-term erosion rates around the Gamburtsev Mountains in interior East Antarctica. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	46
51	Unroofing history of Alabama and Poverty Hills basement blocks, Owens Valley, California, from apatite (U-Th)/He thermochronology. <i>International Geology Review</i> , 2009, 51, 1034-1050.	2.1	5
52	Climate control on Quaternary coal fires and landscape evolution, Powder River basin, Wyoming and Montana. <i>Geology</i> , 2009, 37, 255-258.	4.4	16
53	Eocene Tibetan plateau remnants preserved in the northwest Himalaya. <i>Nature Geoscience</i> , 2009, 2, 364-368.	12.9	98
54	Eocene arc-continent collision and crustal consolidation in Kamchatka, Russian Far East. <i>Numerische Mathematik</i> , 2009, 309, 333-396.	1.4	57

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55	Nonmonotonic thermal histories and contrasting kinetics of multiple thermochronometers. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 3612-3629.	3.9	50
56	Thermochronology and landscape evolution. <i>Physics Today</i> , 2009, 62, 31-36.	0.3	68
57	Application of the (U-Th)/He Thermochronometry to the Tectono-Thermal Evolution of Sedimentary Basins: A Case History of Well KQ1 in the Tarim Basin. <i>Chinese Journal of Geophysics</i> , 2009, 52, 803-813.	0.2	2
58	Multimillion year thermal history of a porphyry copper deposit: application of U-Pb, $^{40}\text{Ar}/^{39}\text{Ar}$ and (U-Th)/He chronometers, Bajo de la Alumbrera copper-gold deposit, Argentina. <i>Mineralium Deposita</i> , 2008, 43, 295-314.	4.1	71
59	Thermochronological evidence for Mio-Pliocene late orogenic extension in the north-eastern Albanides (Albania). <i>Terra Nova</i> , 2008, 20, 180-187.	2.1	17
60	Temporal-compositional trends over short and long time-scales in basalts of the Big Pine Volcanic Field, California. <i>Earth and Planetary Science Letters</i> , 2008, 269, 140-154.	4.4	59
61	Two-phase Neogene extension in the northwestern Basin and Range recorded in a single thermochronology sample. <i>Geology</i> , 2008, 36, 631.	4.4	27
62	New Insights into Crustal Contributions to Large-volume Rhyolite Generation in the Mid-Tertiary Sierra Madre Occidental Province, Mexico, Revealed by U-Pb Geochronology. <i>Journal of Petrology</i> , 2008, 49, 47-77.	2.8	101
63	Uplift of the western margin of the Andean plateau revealed from canyon incision history, southern Peru. <i>Geology</i> , 2007, 35, 523.	4.4	142
64	Thermochronologic Approaches to Paleotopography. <i>Reviews in Mineralogy and Geochemistry</i> , 2007, 66, 243-267.	4.8	46
65	Dating young basalt eruptions by (U-Th)/He on xenolithic zircons. <i>Geology</i> , 2007, 35, 17.	4.4	36
66	Conodont (U-Th)/He thermochronology: Initial results, potential, and problems. <i>Earth and Planetary Science Letters</i> , 2007, 258, 569-580.	4.4	18
67	High-temperature Mars-to-Earth transfer of meteorite ALH84001. <i>Earth and Planetary Science Letters</i> , 2007, 260, 72-85.	4.4	24
68	Jurassic-to-present thermal history of the central High Atlas (Morocco) assessed by low-temperature thermochronology. <i>Terra Nova</i> , 2007, 19, 58-64.	2.1	49
69	Late Mesozoic and Cenozoic thermotectonic evolution along a transect from the north China craton through the Qinling orogen into the Yangtze craton, central China. <i>Tectonics</i> , 2006, 25, n/a-n/a.	2.8	101
70	(U-Th)/He dating of volcanic phenocrysts with high-U-Th inclusions, Jemez Volcanic Field, New Mexico. <i>Chemical Geology</i> , 2006, 227, 223-235.	3.3	23
71	Cenozoic exhumation of the northern Sierra Nevada, California, from (U-Th)/He thermochronology. <i>Bulletin of the Geological Society of America</i> , 2006, 118, 1481-1488.	3.3	83
72	USING THERMOCHRONOLOGY TO UNDERSTAND OROGENIC EROSION. <i>Annual Review of Earth and Planetary Sciences</i> , 2006, 34, 419-466.	11.0	765

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73	Low temperature thermochronology of the southern East Greenland continental margin: Evidence from apatite (U-Th)/He and fission track analysis and implications for intermethod calibration. <i>Lithos</i> , 2006, 92, 117-136.	1.4	36
74	Cenozoic Tectonic Evolution of the Basin and Range Province in Northwestern Nevada. <i>Numerische Mathematik</i> , 2006, 306, 616-654.	1.4	79
75	Past, Present, and Future of Thermochronology. <i>Reviews in Mineralogy and Geochemistry</i> , 2005, 58, 1-18.	4.8	182
76	(U-Th)/(He-Pb) double dating of detrital zircons. <i>Numerische Mathematik</i> , 2005, 305, 259-311.	1.4	148
77	Zircon (U-Th)/He Thermochronometry. <i>Reviews in Mineralogy and Geochemistry</i> , 2005, 58, 151-179.	4.8	368
78	U-Th zonation-dependent alpha-ejection in (U-Th)/He chronometry. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 3349-3365.	3.9	329
79	He-Pb double dating of detrital zircons from the Ganges and Indus Rivers: Implication for quantifying sediment recycling and provenance studies. <i>Earth and Planetary Science Letters</i> , 2005, 237, 402-432.	4.4	135
80	Relief evolution in northern Corsica (western Mediterranean): Constraints on uplift and erosion on long-term and short-term timescales. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	20
81	Incomplete retention of radiation damage in zircon from Sri Lanka. <i>American Mineralogist</i> , 2004, 89, 219-231.	1.9	193
82	Origin of the Blue Ridge escarpment along the passive margin of Eastern North America. <i>Basin Research</i> , 2004, 16, 41-63.	2.7	73
83	Rates of sediment recycling beneath the Acapulco trench: Constraints from (U-Th)/He thermochronology. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	31
84	Zircon (U-Th)/He thermochronometry: He diffusion and comparisons with ⁴⁰ Ar/ ³⁹ Ar dating. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 1857-1887.	3.9	599
85	Length scales of mantle heterogeneities and their relationship to ocean island basalt geochemistry. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 345-360.	3.9	125
86	Age and temperature of shock metamorphism of Martian meteorite Los Angeles from (U-Th)/He thermochronometry. <i>Geology</i> , 2004, 32, 677.	4.4	20
87	Long-term glacial erosion of active mountain belts: Example of the Chugach-St. Elias Range, Alaska. <i>Geology</i> , 2004, 32, 501.	4.4	138
88	Late Cretaceous-Cenozoic exhumation history of Tiantangzhai region of Dabieshan Orogen: Constraints from (U-Th)/He and fission track analysis. <i>Science Bulletin</i> , 2003, 48, 1151-1156.	1.7	24
89	Coupled spatial variations in precipitation and long-term erosion rates across the Washington Cascades. <i>Nature</i> , 2003, 426, 645-647.	27.8	276
90	Post-orogenic evolution of the Dabie Shan, eastern China, from (U-Th)/He and fission-track thermochronology. <i>Numerische Mathematik</i> , 2003, 303, 489-518.	1.4	170

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91	Combined single-grain (U-Th)/He and U/Pb dating of detrital zircons from the Navajo Sandstone, Utah. <i>Geology</i> , 2003, 31, 761.	4.4	163
92	Influence of wildfires on apatite and zircon (U-Th)/He ages. <i>Geology</i> , 2003, 31, 1025.	4.4	58
93	Timing Constraints of Gold Mineralization along the Carlin Trend Utilizing Apatite Fission-Track, $^{40}\text{Ar}/^{39}\text{Ar}$, and Apatite (U-Th)/He Methods. <i>Economic Geology</i> , 2003, 98, 1159-1171.	3.8	30
94	Late Miocene exhumation and uplift of the Washington Cascade Range. <i>Geology</i> , 2002, 30, 767.	4.4	94
95	Laramide exhumation of the Bighorn Mountains, Wyoming: An apatite (U-Th)/He thermochronology study. <i>Geology</i> , 2002, 30, 27.	4.4	78
96	(U-Th)/He chronometry experiences a renaissance. <i>Eos</i> , 2002, 83, 21.	0.1	25
97	He diffusion and (U-Th)/He thermochronometry of zircon: initial results from Fish Canyon Tuff and Gold Butte. <i>Tectonophysics</i> , 2002, 349, 297-308.	2.2	271
98	Late Cenozoic evolution of the eastern margin of the Tibetan Plateau: Inferences from $^{40}\text{Ar}/^{39}\text{Ar}$ and (U-Th)/He thermochronology. <i>Tectonics</i> , 2002, 21, 1-1-1-20.	2.8	484
99	The pMELTS: A revision of MELTS for improved calculation of phase relations and major element partitioning related to partial melting of the mantle to 3 GPa. <i>Geochemistry, Geophysics, Geosystems</i> , 2002, 3, 1-35.	2.5	670
100	Temporal-compositional trends in intraplate basalt eruptions: Implications for mantle heterogeneity and melting processes. <i>Geochemistry, Geophysics, Geosystems</i> , 2002, 3, 1-30.	2.5	71
101	Influence of crystal size on apatite (U-Th)/He thermochronology: an example from the Bighorn Mountains, Wyoming. <i>Earth and Planetary Science Letters</i> , 2001, 188, 413-420.	4.4	278
102	Geochronological Constraints on the Post-Collisional (150-75 Ma) Thermal Extension in the Dabieshan Orogen, Central China. <i>Gondwana Research</i> , 2001, 4, 829-831.	6.0	2
103	Young basalts of the central Washington Cascades, flux melting of the mantle, and trace element signatures of primary arc magmas. <i>Contributions To Mineralogy and Petrology</i> , 2000, 138, 249-264.	3.1	64
104	Helium and argon thermochronometry of the Gold Butte block, south Virgin Mountains, Nevada. <i>Earth and Planetary Science Letters</i> , 2000, 178, 315-326.	4.4	85
105	Overlapping volcanoes: The origin of Hilo Ridge, Hawaii. <i>Geology</i> , 2000, 28, 547-550.	4.4	3
106	Structural and petrologic evolution of the Lihue basin and eastern Kauai, Hawaii. <i>Bulletin of the Geological Society of America</i> , 1999, 111, 674-685.	3.3	20
107	Helium diffusion and (U-Th)/He thermochronometry of titanite. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 3845-3859.	3.9	158
108	An Apparatus for High-Precision Helium Diffusion Measurements from Minerals. <i>Analytical Chemistry</i> , 1999, 71, 2059-2061.	6.5	55

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109	Reactive Melt Transport in the Mantle and Geochemical Signatures of Mantle-derived Magmas. <i>Journal of Petrology</i> , 1998, 39, 1039-1061.	2.8	54
110	Evidence for two shield volcanoes exposed on the island of Kauai, Hawaii. <i>Geology</i> , 1997, 25, 811.	4.4	20
111	Evidence for Multiple Mechanisms of Crustal Contamination of Magma from Compositionally Zoned Plutons and Associated Ultramafic Intrusions of the Alaska Range. <i>Journal of Petrology</i> , 1996, 37, 261-292.	2.8	40
112	Assimilation of felsic crust by basaltic magma: Thermal limits and extents of crustal contamination of mantle-derived magmas. <i>Geology</i> , 1995, 23, 563.	4.4	185
113	Shocked Quartz at the Triassic-Jurassic Boundary in Italy. <i>Science</i> , 1992, 255, 443-446.	12.6	86