Matthew J Kohn

List of Publications by Year
in descending order

99 papers	9,847 citations	38742 50 h-index	36028 97 g-index
102 all docs	102 docs citations	102 times ranked	6908 citing authors

#	Article	IF	Citations
1	Late Cretaceous hydrous melting and reworking of juvenile lower crust of the eastern Gangdese magmatic arc, southern Tibet. Gondwana Research, 2022, 104, 112-125.	6.0	6
2	Late Cretaceous Metamorphism and Anatexis of the Gangdese Magmatic Arc, South Tibet: Implications for Thickening and Differentiation of Juvenile Crust. Journal of Petrology, 2022, 63, .	2.8	7
3	Thermal regime of the lower crust in the eastern Khondalite Belt, North China Craton, constrained by Zr-in-rutile thermometry mapping. Precambrian Research, 2022, 377, 106720.	2.7	5
4	The Miocene: The Future of the Past. Paleoceanography and Paleoclimatology, 2021, 36, e2020PA004037.	2.9	166
5	Assessing Pâ€T variability in mÃ©lange blocks from the Catalina Schist: Is there differential movement at the subduction interface?. Journal of Metamorphic Geology, 2021, 39, 271-295.	3.4	15
6	Insights on the controls on floodplain-dominated fluvial successions: a perspective from the Earlyâ€“Middle Miocene Santa Cruz Formation in RÃo ChalÃa (Patagonia, Argentina). Journal of the Geological Society, 2021, 178, .	2.1	9
7	Timescales of Partial Melting and Melt Crystallization in the Eastern Himalayan Orogen: Insights From Zircon Petrochronology. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009539.	2.5	13
8	Backarc Lithospheric Thickness and Serpentine Stability Control Slabâ€Mantle Coupling Depths in Subduction Zones. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009304.	2.5	10
9	A MÃ©lange of Subduction Ages: Constraints on the Timescale of Shear Zone Development and Underplating at the Subduction Interface, Catalina Schist (CA, USA). Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009790.	2.5	7
10	Caught in the act: A case study on microscopic scale physicochemical effects of fossilization on stable isotopic composition of bone. Geochimica Et Cosmochimica Acta, 2020, 268, 277-295.	3.9	16
11	The interpretability of stable hydrogen isotopes in modern herbivore tooth enamel. Geochimica Et Cosmochimica Acta, 2020, 270, 84-94.	3.9	2
12	An improved approach to age-modeling in deep time: Implications for the Santa Cruz Formation, Argentina. Bulletin of the Geological Society of America, 2020, 132, 233-244.	3.3	36
13	Thermometry and Microstructural Analysis Imply Protracted Extensional Exhumation of the Tso Morari UHP Nappe, Northwestern Himalaya: Implications for Models of UHP Exhumation. Tectonics, 2020, 39, e2020TC006482.	2.8	5
14	Patagonian Aridification at the Onset of the Midâ€Miocene Climatic Optimum. Paleoceanography and Paleoclimatology, 2020, 35, e2020PA003956.	2.9	14
15	Acceptance of the Dana Medal of the Mineralogical Society of America for 2019. American Mineralogist, 2020, 105, 768-769.	1.9	0
16	A refined zirconium-in-rutile thermometer. American Mineralogist, 2020, 105, 963-971.	1.9	66
17	Distributed ductile thinning during thrust emplacement: A commonly overlooked exhumation mechanism. Geology, 2020, 48, 368-373.	4.4	13
18	Stable isotope compositions of herbivore teeth indicate climatic stability leading into the mid-Miocene Climatic Optimum, in Idaho, U.S.A. Palaeogeography, Palaeoclimatology, Palaeoecology, 2020, 546, 109610.	2.3	7

#	Article	IF	Citations
19	Examining the tectono-stratigraphic architecture, structural geometry, and kinematic evolution of the Himalayan fold-thrust belt, Kumaun, northwest India. Lithosphere, 2019, 11, 414-435.	1.4	23
20	Stable isotopes in large herbivore tooth enamel capture a mid-Miocene precipitation spike in the interior Pacific Northwest. Palaeogeography, Palaeoclimatology, Palaeoecology, 2018, 495, 1-12.	2.3	7
21	A mÃ©lange of subduction temperatures: Evidence from Zr-in-rutile thermometry for strengthening of the subduction interface. Earth and Planetary Science Letters, 2018, 482, 525-535.	4.4	34
22	Apatite: Following the movements of ancient humans and mastodons. American Mineralogist, 2018, 103, 324-325.	1.9	0
23	Shear heating reconciles thermal models with the metamorphic rock record of subduction. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11706-11711.	7.1	36
24	Significant Agesâ€"An Introduction to Petrochronology. Reviews in Mineralogy and Geochemistry, 2017, 83, 1-12.	4.8	94
25	Titanite Petrochronology. Reviews in Mineralogy and Geochemistry, 2017, 83, 419-441.	4.8	147
26	Diffusion: Obstacles and Opportunities in Petrochronology. Reviews in Mineralogy and Geochemistry, 2017, 83, 103-152.	4.8	34
27	Protracted thrusting followed by late rapid cooling of the Greater Himalayan Sequence, Annapurna Himalaya, Central Nepal: Insights from titanite petrochronology. Journal of Metamorphic Geology, 2017, 35, 897-917.	3.4	40
28	Determining the population affinity of an unprovenienced human skull for repatriation. Journal of Archaeological Science: Reports, 2017, 12, 384-394.	0.5	12
29	Tooth enamel maturation reequilibrates oxygen isotope compositions and supports simple sampling methods. Geochimica Et Cosmochimica Acta, 2017, 198, 32-47.	3.9	54
30	4. Diffusion: Obstacles and Opportunities in Petrochronology. , 2017, , 103-152.		2
31	Isotopic composition of precipitation in a topographically steep, seasonally snow-dominated watershed and implications of variations from the global meteoric water line. Hydrological Processes, 2016, 30, 4582-4592.	2.6	28
32	U-Pb geochronology of the Santa Cruz Formation (early Miocene) at the RÃo Bote and RÃo Santa Cruz (southernmost Patagonia, Argentina): Implications for the correlation of fossil vertebrate localities. Journal of South American Earth Sciences, 2016, 70, 198-210.	1.4	66
33	Implications of near-rim compositional zoning in rutile for geothermometry, geospeedometry, and trace element equilibration. Contributions To Mineralogy and Petrology, 2016, 171, 1.	3.1	32
34	Isotopic evidence for lateral flow and diffusive transport, but not sublimation, in a sloped seasonal snowpack, Idaho, USA. Geophysical Research Letters, 2016, 43, 3298-3306.	4.0	27
35	Metamorphic chronologyâ€"a tool for all ages: Past achievements and future prospects. American Mineralogist, 2016, 101, 25-42.	1.9	94
36	Quasi-static Eoceneâ€“Oligocene climate in Patagonia promotes slow faunal evolution and mid-Cenozoic global cooling. Palaeogeography, Palaeoclimatology, Palaeoecology, 2015, 435, 24-37.	2.3	54

#	Article	IF	Citations
37	Climate, dust, and fire across the Eocene-Oligocene transition, Patagonia. Geology, 2015, 43, 567-570.	4.4	22
38	Linked canopy, climate, and faunal change in the Cenozoic of Patagonia. Science, 2015, 347, 258-261.	12.6	158
39	The fall and rise of metamorphic zircon. American Mineralogist, 2015, 100, 897-908.	1.9	226
40	The global range of subduction zone thermal structures from exhumed blueschists and eclogites: Rocks are hotter than models. Earth and Planetary Science Letters, 2015, 428, 243-254.	4.4	258
41	Evidence for a far-traveled thrust sheet in the Greater Himalayan thrust system, and an alternative model to building the Himalaya. Tectonics, 2015, 34, 31-52.	2.8	39
42	Eoceneâ€“Oligocene latitudinal climate gradients in North America inferred from stable isotope ratios in perissodactyl tooth enamel. Palaeogeography, Palaeoclimatology, Palaeoecology, 2015, 417, 561-568.	2.3	19
43	No Correction of Terrestrial C3-Plant Carbon Isotope Compositions for PCO2. The Paleontological Society Special Publications, 2014, 13, 42-42.	0.0	1
44	â€œThermoba-Raman-tryâ€• Calibration of spectroscopic barometers and thermometers for mineral inclusions. Earth and Planetary Science Letters, 2014, 388, 187-196.	4.4	111
45	A new acaremyid rodent (Caviomorpha, Octodontoidea) from Scarritt Pocket, Deseadan (late) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.0	13
46	Trace element concentrations in teeth â€“ a modern Idaho baseline with implications for archeometry, forensics, and palaeontology. Journal of Archaeological Science, 2013, 40, 1689-1699.	2.4	66
47	Decoupling the spread of grasslands from the evolution of grazer-type herbivores in South America. Nature Communications, 2013, 4, 1478.	12.8	165
48	Strontium isotope zoning in garnet: implications for metamorphic matrix equilibration, geochronology and phase equilibrium modelling. Journal of Metamorphic Geology, 2013, 31, 437-452.	3.4	19
49	A new chronology for middle Eocene-early Miocene South American Land Mammal Ages. Bulletin of the Geological Society of America, 2013, 125, 539-555.	3.3	112
50	Trace element diffusivities in bone rule out simple diffusive uptake during fossilization but explain in vivo uptake and release. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 419-424.	7.1	61
51	Paleoecology of late Pleistoceneâ€“Holocene faunas of eastern and central Wyoming, USA, with implications for LGM climate models. Palaeogeography, Palaeoclimatology, Palaeoecology, 2012, 326-328, 42-53.	2.3	34
52	The age and rate of displacement along the Main Central Thrust in the western Bhutan Himalaya. Earth and Planetary Science Letters, 2012, 319-320, 146-158.	4.4	90
53	Flattening the Bhutan Himalaya. Earth and Planetary Science Letters, 2012, 349-350, 67-74.	4.4	54
54	Titanium in muscovite, biotite, and hornblende: Modeling, thermometry, and rutile activities of metapelites and amphibolites. American Mineralogist, 2012, 97, 543-555.	1.9	47

#	Article	IF	Citations
55	Preserved Zr-temperatures and Uâ€“Pb ages in high-grade metamorphic titanite: Evidence for a static hot channel in the Himalayan orogen. Earth and Planetary Science Letters, 2011, 311, 136-143.	4.4	126
56	Metamorphic history of the central Himalaya, Annapurna region, Nepal, and implications for tectonic models. Bulletin of the Geological Society of America, 2011, 123, 1863-1879.	3.3	125
57	Reply to Freeman et al.: Carbon isotope discrimination by C3 plants. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, .	7.1	4
58	Stable isotopes of fossil teeth corroborate key general circulation model predictions for the Last Glacial Maximum in North America. Geophysical Research Letters, 2010, 37, .	4.0	11
59	The effect of tissue structure and soil chemistry on trace element uptake in fossils. Geochimica Et Cosmochimica Acta, 2010, 74, 3213-3231.	3.9	75
60	Carbon isotope compositions of terrestrial C3 plants as indicators of (paleo)ecology and (paleo)climate. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19691-19695.	7.1	1,041
61	Models of garnet differential geochronology. Geochimica Et Cosmochimica Acta, 2009, 73, 170-182.	3.9	126
62	Biostratigraphy and paleoclimatology of the Eocene-Oligocene boundary section at Toadstool Park, northwestern Nebraska, USA. , 2009, , .		13
63	Traceâ€element distributions in silicates during prograde metamorphic reactions: implications for monazite formation. Journal of Metamorphic Geology, 2008, 26, 451-464.	3.4	97
64	Uâ€Thâ€Pb dating of monazite by singleâ€collector ICPâ€MS: Pitfalls and potential. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	50
65	P-T-t data from central Nepal support critical taper and repudiate large-scale channel flow of the Greater Himalayan Sequence. Bulletin of the Geological Society of America, 2008, 120, 259-273.	3.3	247
66	Ecology and physiology of White River mammals based on stable isotope ratios of teeth. Palaeogeography, Palaeoclimatology, Palaeoecology, 2008, 257, 22-37.	2.3	34
67	Models of diffusion-limited uptake of trace elements in fossils and rates of fossilization. Geochimica Et Cosmochimica Acta, 2008, 72, 3758-3770.	3.9	102
68	Miocene tectonics and climate forcing of biodiversity, western United States. Geology, 2008, 36, 783.	4.4	55
69	Resolving the timing of orogenesis in the Western Blue Ridge, southern Appalachians, via in situ ID-TIMS monazite geochronology. Geology, 2007, 35, 627.	4.4	31
70	Paleoaltimetry from Stable Isotope Compositions of Fossils. Reviews in Mineralogy and Geochemistry, 2007, 66, 119-154.	4.8	47
71	Large temperature drop across the Eoceneâ€“Oligocene transition in central North America. Nature, 2007, 445, 639-642.	27.8	213
72	Stable isotope chemistry of fossil bone as a new paleoclimate indicator. Geochimica Et Cosmochimica Acta, 2006, 70, 931-946.	3.9	77

#	Article	IF	Citations
73	Five generations of monazite in Langtang gneisses: implications for chronology of the Himalayan metamorphic core. Journal of Metamorphic Geology, 2005, 23, 399-406.	3.4	231
74	Dining in the Pleistoceneâ€"Who's on the menu?. Geology, 2005, 33, 649-652.	4.4	87
75	On the temperature correlation of Î´18O in modern precipitation. Earth and Planetary Science Letters, 2005, 231, 87-96.	4.4	126
76	Dining in the Pleistoceneâ€"Who's on the menu?. Geology, 2005, 33, 649.	4.4	50
77	Oscillatory- and sector-zoned garnets record cyclic (?) rapid thrusting in central Nepal. Geochemistry, Geophysics, Geosystems, 2004, 5, n/a-n/a.	2.5	43
78	Climate stability across the Eocene-Oligocene transition, southern Argentina. Geology, 2004, 32, 621.	4.4	44
79	Miocene faulting at plate tectonic velocity in the Himalaya of central Nepal. Earth and Planetary Science Letters, 2004, 228, 299-310.	4.4	158
80	Formation of monazite via prograde metamorphic reactions among common silicates: implications for age determinations. Geochimica Et Cosmochimica Acta, 2004, 68, 101-113.	3.9	244
81	Comment: Tooth Enamel Mineralization in Ungulates: Implications for Recovering a Primary Isotopic Time-Series, by B. H. Passey and T. E. Cerling (2002). Geochimica Et Cosmochimica Acta, 2004, 68, 403-405.	3.9	82
82	Stable Isotope Compositions of Biological Apatite. Reviews in Mineralogy and Geochemistry, 2002, 48, 455-488.	4.8	291
83	Oxygen isotope evidence for progressive uplift of the Cascade Range, Oregon. Earth and Planetary Science Letters, 2002, 204, 151-165.	4.4	90
84	Retrograde net transfer reaction insurance for pressure-temperature estimates. Geology, 2000, 28, 1127.	4.4	287
85	Why most "dry" rocks should cool "wet". American Mineralogist, 1999, 84, 570-580.	1.9	33
86	Pâ€Š - T paths from anatectic pelites. Contributions To Mineralogy and Petrology, 1999, 134, 17-32.	3.1	501
87	Altered states: effects of diagenesis on fossil tooth chemistry. Geochimica Et Cosmochimica Acta, 1999, 63, 2737-2747.	3.9	394
88	Obtaining equilibrium oxygen isotope fractionations from rocks: theory and examples. Contributions To Mineralogy and Petrology, 1998, 132, 209-224.	3.1	51
89	Variability in oxygen isotope compositions of herbivore teeth: reflections of seasonality or developmental physiology?. Chemical Geology, 1998, 152, 97-112.	3.3	182
90	Herbivore tooth oxygen isotope compositions: Effects of diet and physiology. Geochimica Et Cosmochimica Acta, 1996, 60, 3889-3896.	3.9	363

#	Article	IF	Citations
91	Predicting animal Î´18O: Accounting for diet and physiological adaptation. Geochimica Et Cosmochimica Acta, 1996, 60, 4811-4829.	3.9	565
92	Trace element zoning in garnet as a monitor of crustal melting. Geology, 1996, 24, 1099.	4.4	143
93	40Ar/39Ar geochronology and P-T-t paths from the Cordillera Darwin metamorphic complex, Tierra del Fuego, Chile. Journal of Metamorphic Geology, 1995, 13, 251-270.	3.4	99
94	The relative diffusion of Pb, Nd, Sr and O in garnet. Earth and Planetary Science Letters, 1995, 133, 199-211.	4.4	128
95	Oxygen isotope constraints on metamorphic fluid flow, Townshend Dam, Vermont, U.S.A.. Geochimica Et Cosmochimica Acta, 1994, 58, 5551-5566.	3.9	54
96	Modeling of prograde mineral ?18O changes in metamorphic systems. Contributions To Mineralogy and Petrology, 1993, 113, 249-261.	3.1	33
97	Metamorphic P-T Paths from Cordillera Darwin, a Core Complex in Tierra del Fuego, Chile. Journal of Petrology, 1993, 34, 519-542.	2.8	77
98	Pressure, Temperature, and Structural Evolution of West-Central New Hampshire: Hot Thrusts over Cold Basement. Journal of Petrology, 1992, 33, 521-556.	2.8	67
99	A model for garnet and plagioclase growth in pelitic schists: implications for thermobarometry and P-T path determinations. Journal of Metamorphic Geology, 1990, 8, 683-696.	3.4	215