# Kip Hodges

List of Publications by Year
in descending order

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|---|---|---|---|
| 205 papers | 14,322 citations | 18482 62 h-index | 20961 115 g-index |
| 210 all docs | 210 docs citations | 210 times ranked | 6473 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Tectonics of the Himalaya and southern Tibet from two perspectives. Bulletin of the Geological Society of America, 2000, 112, 324-350. | 3.3 | 1,022 |
| 2 | Correlation of Himalayan exhumation rates and Asian monsoon intensity. Nature Geoscience, 2008, 1, 875-880. | 12.9 | 604 |
| 3 | Evidence for Tibetan plateau uplift before 14 Myr ago from a new minimum age for eastâ€“west extension. Nature, 1995, 374, 49-52. | 27.8 | 499 |
| 4 | Late Cenozoic evolution of the eastern margin of the Tibetan Plateau: Inferences from40Ar/39Ar and (U-Th)/He thermochronology. Tectonics, 2002, 21, 1-1-1-20. | 2.8 | 484 |
| 5 | Two-phase growth of high topography in eastern Tibet during the Cenozoic. Nature Geoscience, 2012, 5, 640-645. | 12.9 | 472 |
| 6 | The South Tibetan Detachment System, Himalayan Orogen: Extension Contemporaneous With and Parallel to Shortening in a Collisional Mountain Belt. Special Paper of the Geological Society of America, 1992, , 1-41. | 0.5 | 454 |
| 7 | Tectonic evolution of the central Annapurna Range, Nepalese Himalayas. Tectonics, 1996, 15, 1264-1291. | 2.8 | 445 |
| 8 | Preâ€Pliocene Extension around the Gulf of California and the transfer of Baja California to the Pacific Plate. Tectonics, 1989, 8, 99-115. | 2.8 | 350 |
| 9 | Isotopic constraints on the age and provenance of the Lesser and Greater Himalayan sequences, Nepalese Himalaya. Bulletin of the Geological Society of America, 1996, 108, 904-911. | 3.3 | 346 |
| 10 | Shisha Pangma Leucogranite, South Tibetan Himalaya: Field Relations, Geochemistry, Age, Origin, and Emplacement. Journal of Geology, 1997, 105, 295-318. | 1.4 | 345 |
| 11 | Has focused denudation sustained active thrusting at the Himalayan topographic front?. Geology, 2003, 31, 861. | 4.4 | 332 |
| 12 | Simultaneous Miocene Extension and Shortening in the Himalayan Orogen. Science, 1992, 258, 1466-1470. | 12.6 | 330 |
| 13 | Quaternary deformation, river steepening, and heavy precipitation at the front of the Higher Himalayan ranges. Earth and Planetary Science Letters, 2004, 220, 379-389. | 4.4 | 270 |
| 14 | Active out-of-sequence thrust faulting in the central Nepalese Himalaya. Nature, 2005, 434, 1008-1011. | 27.8 | 269 |
| 15 | Tectonometamorphic evolution of the Himalayan metamorphic core between the Annapurna and Dhaulagiri, central Nepal. Journal of Metamorphic Geology, 2003, 14, 635-656. | 3.4 | 260 |
| 16 | Crustal thickening leading to exhumation of the Himalayan Metamorphic core of central Nepal: Insight from U-Pb Geochronology and40Ar/39Ar Thermochronology. Tectonics, 2001, 20, 729-747. | 2.8 | 234 |
| 17 | Southward extrusion of Tibetan crust and its effect on Himalayan tectonics. Tectonics, 2001, 20, 799-809. | 2.8 | 226 |
| 18 | Regional incision of the eastern margin of the Tibetan Plateau. Lithosphere, 2010, 2, 50-63. | 1.4 | 197 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | P-T paths from garnet zoning: A new technique for deciphering tectonic processes in crystalline terranes. Geology, 1984, 12, 87. | 4.4 | 172 |
| 20 | Metamorphism, Melting, and Extension: Age Constraints from the High Himalayan Slab of Southeast Zanskar and Northwest Lahaul. Journal of Geology, 1999, 107, 473-495. | 1.4 | 152 |
| 21 | Uplift of the western margin of the Andean plateau revealed from canyon incision history, southern Peru. Geology, 2007, 35, 523. | 4.4 | 142 |
| 22 | Forearc hyperextension dismembered the south Tibetan ophiolites. Geology, 2015, 43, 475-478. | 4.4 | 129 |
| 23 | The Kangmar Dome: A Metamorphic Core Complex in Southern Xizang (Tibet). Science, 1990, 250, 1552-1556. | 12.6 | 128 |
| 24 | The thermal structure of collisional orogens as a response to accretion, erosion, and radiogenic heating. Journal of Geophysical Research, 1998, 103, 15287-15302. | 3.3 | 127 |
| 25 | Evidence for rapid displacement on Himalayan normal faults and the importance of tectonic denudation in the evolution of mountain ranges. Geology, 1998, 26, 483. | 4.4 | 124 |
| 26 | Short-lived continental magmatic arc at Connemara, western Irish Caledonides: Implications for the age of the Grampian orogeny. Geology, 1999, 27, 27. | 4.4 | 124 |
| 27 | 40Ar/39Ar age gradients in micas from a high-temperature-low-pressure metamorphic terrain: Evidence for very slow cooling and implications for the interpretation of age spectra. Geology, 1994, 22, 55. | 4.4 | 123 |
| 28 | Geology of Panamint Valley â€•Saline Valley Pullâ€Apart System, California: Palinspastic evidence for lowâ€angle geometry of a Neogene Rangeâ€Bounding Fault. Journal of Geophysical Research, 1987, 92, 10422-10426. | 3.3 | 121 |
| 29 | The metamorphic signature of contemporaneous extension and shortening in the central Himalayan orogen: data from the Nyalam transect, southern Tibet. Journal of Metamorphic Geology, 1993, 11, 721-737. | 3.4 | 121 |
| 30 | Thermal modeling of extensional tectonics: Application to pressureâ€temperatureâ€time histories of metamorphic rocks. Tectonics, 1988, 7, 947-957. | 2.8 | 116 |
| 31 | Neotectonics of the Thakkhola graben and implications for recent activity on the South Tibetan fault system in the central Nepal Himalaya. Bulletin of the Geological Society of America, 2001, 113, 222-240. | 3.3 | 114 |
| 32 | A review of the handheld X-ray fluorescence spectrometer as a tool for field geologic investigations on Earth and in planetary surface exploration. Applied Geochemistry, 2016, 72, 77-87. | 3.0 | 114 |
| 33 | Climate change and Late Pliocene acceleration of erosion in the Himalaya. Earth and Planetary Science Letters, 2006, 252, 107-118. | 4.4 | 107 |
| 34 | Extension in the Cretaceous Sevier orogen, North American Cordillera. Bulletin of the Geological Society of America, 1992, 104, 560. | 3.3 | 104 |
| 35 | New constraints on the age of the Manaslu leucogranite: Evidence for episodic tectonic denudation in the central Himalayas. Geology, 1994, 22, 559. | 4.4 | 104 |
| 36 | Pressure-temperature-time paths from two-dimensional thermal models: Prograde, retrograde, and inverted metamorphism. Tectonics, 1994, 13, 17-44. | 2.8 | 104 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | An Early Pliocene thermal disturbance of the main central thrust, central Nepal: Implications for Himalayan tectonics. Journal of Geophysical Research, 1991, 96, 8475-8500. | 3.3 | 102 |
| 38 | Interpreting and reporting 40Ar/39Ar geochronologic data. Bulletin of the Geological Society of America, 2021, 133, 461-487. | 3.3 | 102 |
| 39 | Thermal evolution of the Greater Himalaya, Garhwal, India. Tectonics, 1988, 7, 583-600. | 2.8 | 101 |
| 40 | Data reporting norms for 40Ar/39Ar geochronology. Quaternary Geochronology, 2009, 4, 346-352. | 1.4 | 97 |
| 41 | The use of detrital mineral cooling ages to evaluate steady state assumptions in active orogens: An example from the central Nepalese Himalaya. Tectonics, 2005, 24, n/a-n/a. | 2.8 | 96 |
| 42 | Plio-Quaternary exhumation history of the central Nepalese Himalaya: 2. Thermokinematic and thermochronometer age prediction model. Tectonics, 2007, 26, n/a-n/a. | 2.8 | 93 |
| 43 | Geochronological constraints on the magmatic, metamorphic and thermal evolution of the Connemara Caledonides, western Ireland. Journal of the Geological Society, 1999, 156, 1217-1230. | 2.1 | 92 |
| 44 | A structural analysis of the Main Central Thrust zone, Langtang National Park, central Nepal Himalaya. Bulletin of the Geological Society of America, 1992, 104, 1389-1402. | 3.3 | 91 |
| 45 | The effects of accretion, erosion and radiogenic heat on the metamorphic evolution of collisional orogens. Journal of Metamorphic Geology, 1999, 17, 349-366. | 3.4 | 89 |
| 46 | Pressure-Temperature-Time Paths. Annual Review of Earth and Planetary Sciences, 1991, 19, 207-236. | 11.0 | 84 |
| 47 | Active shortening within the Himalayan orogenic wedge implied by the 2015 Gorkha earthquake. Nature Geoscience, 2016, 9, 711-716. | 12.9 | 84 |
| 48 | Neotectonics of the central Nepalese Himalaya: Constraints from geomorphology, detrital40Ar/39Ar thermochronology, and thermal modeling. Tectonics, 2006, 25, n/a-n/a. | 2.8 | 83 |
| 49 | Geologic thermobarometry of retrograded metamorphic rocks: An indication of the uplift trajectory of a portion of the northern Scandinavian caledonides. Journal of Geophysical Research, 1984, 89, 7077-7090. | 3.3 | 81 |
| 50 | Timescales of melt generation and the thermal evolution of the Himalayan metamorphic core, Everest region, eastern Nepal. Contributions To Mineralogy and Petrology, 2005, 149, 1-21. | 3.1 | 81 |
| 51 | Thermobarometric and40Ar/39Ar geochronologic constraints on Eohimalayan metamorphism in the Dinggyï¿½ area, southern Tibet. Contributions To Mineralogy and Petrology, 1994, 117, 151-163. | 3.1 | 80 |
| 52 | Modelling detrital cooling-age populations: insights from two Himalayan catchments. Basin Research, 2003, 15, 305-320. | 2.7 | 80 |
| 53 | Thermochronology of mineral grains in the Red and Mekong Rivers, Vietnam: Provenance and exhumation implications for Southeast Asia. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a. | 2.5 | 80 |
| 54 | Variable shortening rates in the eastern Himalayan thrust belt, Bhutan: Insights from multiple thermochronologic and geochronologic data sets tied to kinematic reconstructions. Tectonics, 2012, 31, . | 2.8 | 79 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Possible thermal buffering by crustal anatexis in collisional orogens: Thermobarometric evidence from the Nepalese Himalaya. Geology, 1988, 16, 707. | 4.4 | 75 |
| 56 | Climate controls on erosion in tectonically active landscapes. Science Advances, 2020, 6, . | 10.3 | 75 |
| 57 | 40Ar/39Ar geochronology of flood basalts from the Kerguelen Archipelago, southern Indian Ocean: implications for Cenozoic eruption rates of the Kerguelen plume. Earth and Planetary Science Letters, 2000, 174, 313-328. | 4.4 | 74 |
| 58 | Monaziteâ€“xenotime thermochronometry: methodology and an example from the Nepalese Himalaya. Contributions To Mineralogy and Petrology, 2001, 141, 233-247. | 3.1 | 72 |
| 59 | Structural evolution of an Aâ€type subduction zone, lofotenâ€Rombak Area, northern Scandinavian Caledonides. Tectonics, 1982, 1, 441-462. | 2.8 | 68 |
| 60 | The Interdependence of Deformational and Thermal Processes in Mountain Belts. Science, 1996, 273, 637-639. | 12.6 | 68 |
| 61 | Age and structure of the Shyok suture in the Ladakh region of northwestern India: Implications for slip on the Karakoram fault system. Tectonics, 2015, 34, 2011-2033. | 2.8 | 68 |
| 62 | Contrasting Oligocene and Miocene thermal histories from the hanging wall and footwall of the South Tibetan detachment in the central Himalaya from40Ar/39Ar thermochronology, Marsyandi Valley, central Nepal. Tectonics, 1998, 17, 726-740. | 2.8 | 67 |
| 63 | Geochronology and Thermochronology in Orogenic Systems. , 2003, , 263-292. | | 63 |
| 64 | U and Th zoning in Cerro de Mercado (Durango, Mexico) fluorapatite: Insights regarding the impact of recoil redistribution of radiogenic 4He on (Uâ€“Th)/He thermochronology. Chemical Geology, 2005, 219, 261-274. | 3.3 | 63 |
| 65 | Thermal evolution of a portion of the Sevier Hinterland: The Northern Ruby Mountainsâ€East Humboldt Range and Wood Hills, northeastern Nevada. Tectonics, 1992, 11, 154-164. | 2.8 | 56 |
| 66 | thermochronology of isotopically zoned micas: Insights from the southwestern USA proterozoic orogen. Geochimica Et Cosmochimica Acta, 1995, 59, 3205-3220. | 3.9 | 56 |
| 67 | Laser 40Ar/39Ar Evaluation of Slow Cooling and Episodic Loss of 40Ar from a Sample of Polymetamorphic Muscovite. Science, 1993, 261, 1721-1723. | 12.6 | 55 |
| 68 | 40Ar/39Ar Thermochronology of Detrital Minerals. Reviews in Mineralogy and Geochemistry, 2005, 58, 239-257. | 4.8 | 55 |
| 69 | Multistage exhumation and juxtaposition of lower continental crust in the western Canadian Shield: Linking high-resolution U-Pb and40Ar/39Ar thermochronometry with pressure-temperature-deformation paths. Tectonics, 2006, 25, n/a-n/a. | 2.8 | 55 |
| 70 | Syncontractional extension and exhumation of deep crustal rocks in the east Greenland Caledonides. Tectonics, 2001, 20, 58-77. | 2.8 | 54 |
| 71 | Quantifying canyon incision and Andean Plateau surface uplift, southwest Peru: A thermochronometer and numerical modeling approach. Journal of Geophysical Research, 2009, 114, . | 3.3 | 53 |
| 72 | Pogallo Line, South Alps, northern Italy: An intermediate crystal level, low-angle normal fault?. Geology, 1984, 12, 151. | 4.4 | 50 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Uâ€“Pb and 40Ar/39Ar constraints on the Fjord Region Detachment Zone: a long-lived extensional fault in the central East Greenland Caledonides. Journal of the Geological Society, 2000, 157, 795-809. | 2.1 | 49 |
| 74 | Pleistocene onset of rapid, punctuated exhumation in the eastern Central Range of the Taiwan orogenic belt. Geology, 2016, 44, 719-722. | 4.4 | 46 |
| 75 | Laser microprobe (Uâ€“Th)/He geochronology. Geochimica Et Cosmochimica Acta, 2006, 70, 3031-3039. | 3.9 | 45 |
| 76 | In situ development of highâ€elevation, lowâ€relief landscapes via duplex deformation in the Eastern Himalayan hinterland, Bhutan. Journal of Geophysical Research F: Earth Surface, 2016, 121, 294-319. | 2.8 | 45 |
| 77 | A technique for analyzing the thermal and uplift histories of eroding orogenic belts: A Scandinavian example. Journal of Geophysical Research, 1984, 89, 7091-7106. | 3.3 | 44 |
| 78 | Evolution of extensional basins and basin and range topography west of Death Valley, California. Tectonics, 1989, 8, 453-467. | 2.8 | 44 |
| 79 | Topography, exhumation pathway, age uncertainties, and the interpretation of thermochronometer data. Tectonics, 2007, 26, . | 2.8 | 44 |
| 80 | Empirical constraints on the effects of radiation damage on helium diffusion in zircon. Geochimica Et Cosmochimica Acta, 2017, 218, 308-322. | 3.9 | 44 |
| 81 | >Mesozoic and Cenozoic extension recorded by metamorphic rocks in the Funeral Mountains, California. Bulletin of the Geological Society of America, 1995, 107, 1063-1076. | 3.3 | 43 |
| 82 | A synthesis of the Channel Flow-Extrusion hypothesis as developed for the Himalayan-Tibetan orogenic system. Geological Society Special Publication, 2006, 268, 71-90. | 1.3 | 43 |
| 83 | Synchronous N-S and E-W extension at the Tibet-to-Himalaya transition in NW Bhutan. Tectonics, 2015, 34, 1375-1395. | 2.8 | 42 |
| 84 | The thermal evolution of Chinese central Tianshan and its implications: Insights from multi-method chronometry. Tectonophysics, 2018, 722, 536-548. | 2.2 | 40 |
| 85 | The Middle Mountain shear zone, southern Idaho: Kinematic analysis of an early Tertiary high-temperature detachment. Bulletin of the Geological Society of America, 1988, 100, 96-103. | 3.3 | 39 |
| 86 | Thermochronology of the modern Indus River bedload: New insight into the controls on the marine stratigraphic record. Tectonics, 2004, 23, n/a-n/a. | 2.8 | 39 |
| 87 | Miocene to recent structural development of an extensional accommodation zone, northeastern Baja California, Mexico. Journal of Structural Geology, 1990, 12, 315-328. | 2.3 | 38 |
| 88 | Geologic constraints on middle-crustal behavior during broadly synorogenic extension in the central East Greenland Caledonides. International Journal of Earth Sciences, 2002, 91, 187-208. | 1.8 | 37 |
| 89 | Desert Research and Technology Studies (DRATS) 2010 science operations: Operational approaches and lessons learned for managing science during human planetary surface missions. Acta Astronautica, 2013, 90, 224-241. | 3.2 | 37 |
| 90 | Laser (Uâ€Th)/He thermochronology of detrital zircons as a tool for studying surface processes in modern catchments. Journal of Geophysical Research F: Earth Surface, 2013, 118, 1333-1341. | 2.8 | 37 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | ArAR â€" A software tool to promote the robust comparison of Kâ€"Ar and 40Ar/39Ar dates published using different decay, isotopic, and monitor-age parameters. Chemical Geology, 2016, 440, 148-163. | 3.3 | 35 |
| 92 | Temperature and pressure of mylonitization in a Tertiary extensional shear zone, Ruby Mountains-East Humboldt Range, Nevada: Tectonic implications. Geology, 1991, 19, 82. | 4.4 | 34 |
| 93 | Proterozoic metamorphism and cooling in the southern Lake Superior region, North America and its bearing on crustal evolution. Precambrian Research, 2007, 157, 106-126. | 2.7 | 34 |
| 94 | Integrated single crystal laser ablation U/Pb and (Uâ€"Th)/He dating of detrital accessory minerals â€" Proof-of-concept studies of titanites and zircons from the Fish Canyon tuff. Geochimica Et Cosmochimica Acta, 2016, 178, 106-123. | 3.9 | 34 |
| 95 | (Uâ€Th)/He dating of terrestrial impact structures: The Manicouagan example. Geochemistry, Geophysics, Geosystems, 2011, 12, . | 2.5 | 33 |
| 96 | Constraints on unroofing rates in the High Himalaya, eastern Nepal. Tectonics, 1991, 10, 287-298. | 2.8 | 32 |
| 97 | Large normal-sense displacement on the South Tibetan fault system in the eastern Himalaya. Geology, 2012, 40, 971-974. | 4.4 | 32 |
| 98 | Thermochronologic constraints on the slip history of the South Tibetan detachment system in the Everest region, southern Tibet. Earth and Planetary Science Letters, 2017, 459, 105-117. | 4.4 | 32 |
| 99 | A comparative study of detrital mineral and bedrock age-elevation methods for estimating erosion rates. Journal of Geophysical Research, 2006, 111, n/a-n/a. | 3.3 | 31 |
| 100 | Impact thermochronology and the age of Haughton impact structure, Canada. Geophysical Research Letters, 2013, 40, 3836-3840. | 4.0 | 31 |
| 101 | Constraints on the tectonic and landscape evolution of the Bhutan Himalaya from thermochronometry. Tectonics, 2015, 34, 1329-1347. | 2.8 | 31 |
| 102 | Late Cretaceous extensional unroofing in the Funeral Mountains metamorphic core complex, California. Geology, 1992, 20, 519. | 4.4 | 30 |
| 103 | Flexural bending of southern Tibet in a retro foreland setting. Scientific Reports, 2015, 5, 12076. | 3.3 | 30 |
| 104 | Petrologic constraints on the unroofing history of the Funeral Mountain Metamorphic Core Complex, California. Journal of Geophysical Research, 1990, 95, 8437-8445. | 3.3 | 29 |
| 105 | Late Cenozoic structural and tectonic development of the western margin of the central Andean Plateau in southwest Peru. Tectonics, 2009, 28, . | 2.8 | 29 |
| 106 | Evidence for Plioâ€Pleistocene northâ€south extension at the southern margin of the Tibetan Plateau, Nyalam region. Tectonics, 2013, 32, 317-333. | 2.8 | 27 |
| 107 | Limits on the tectonic significance of rapid cooling events in extensional settings: Insights from the Bitterroot metamorphic core complex, Idaho-Montana. Geology, 1994, 22, 1007. | 4.4 | 26 |
| 108 | Petrological and geochronological constraints on regional metamorphism along the northern border of the Bitterroot batholith. Journal of Metamorphic Geology, 1997, 15, 753-764. | 3.4 | 26 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Assessment of robotic recon for human exploration of the Moon. Acta Astronautica, 2010, 67, 1176-1188. | 3.2 | 26 |
| 110 | Laser depth profiling studies of helium diffusion in Durango fluorapatite. Geochimica Et Cosmochimica Acta, 2011, 75, 2409-2419. | 3.9 | 26 |
| 111 | Thermochronology in Orogenic Systems. , 2014, , 281-308. | | 25 |
| 112 | Role of horizontal thermal conduction and finite time thrust emplacement in simulation of pressure-temperature-time paths. Earth and Planetary Science Letters, 1994, 123, 49-60. | 4.4 | 24 |
| 113 | Neogene cooling and exhumation of upper-amphibolite-facies `whiteschists' in the southwest Pamir Mountains, Tajikistan. Tectonophysics, 1999, 305, 325-337. | 2.2 | 24 |
| 114 | Metamorphic constraints on the character and displacement of the South Tibetan fault system, central Bhutanese Himalaya. Lithosphere, 2013, 5, 67-81. | 1.4 | 24 |
| 115 | Geologic Traverse Planning for Planetary EVA. , 0, , . | | 22 |
| 116 | He diffusion in monazite: Implications for (U-Th)/He thermochronometry. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a. | 2.5 | 22 |
| 117 | Improved confidence in (Uâ€Th)/He thermochronology using the laser microprobe: An example from a Pleistocene leucogranite, Nanga Parbat, Pakistan. Geochemistry, Geophysics, Geosystems, 2009, 10, . | 2.5 | 22 |
| 118 | The thermodynamics of Himalayan orogenesis. Geological Society Special Publication, 1998, 138, 7-22. | 1.3 | 21 |
| 119 | Exploration telepresence: A strategy for optimizing scientific research at remote space destinations. Science Robotics, 2017, 2, . | 17.6 | 21 |
| 120 | Chapter 19: Structural unroofing of the central Panamint Mountains, Death Valley region, southeastern California. Memoir of the Geological Society of America, 1990, , 377-390. | 0.5 | 20 |
| 121 | Dating cleavage formation in slates and phyllites with the 40Ar/39Ar laser microprobe: an example from the western New England Appalachians, USA. Terra Nova, 2000, 12, 264-271. | 2.1 | 20 |
| 122 | Evidence for Plioceneâ€“Quaternary normal faulting in the hinterland of the Bhutan Himalaya. Lithosphere, 2013, 5, 438-449. | 1.4 | 20 |
| 123 | Refining lunar impact chronology through high spatial resolution <sup>40</sup> Ar/ <sup>39</sup> Ar dating of impact melts. Science Advances, 2015, 1, e1400050. | 10.3 | 20 |
| 124 | Crustal Decoupling in Collisional Orogenesis: Examples from the East Greenland Caledonides and Himalaya. Annual Review of Earth and Planetary Sciences, 2016, 44, 685-708. | 11.0 | 20 |
| 125 | Mapping radiation damage zoning in zircon using Raman spectroscopy: Implications for zircon chronology. Chemical Geology, 2020, 538, 119494. | 3.3 | 20 |
| 126 | A new paradigm for advanced planetary field geology developed through analog experiments on Earth. , 2011, , . | | 19 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Characterization of the rhyolite of Bodie Hills and 40Ar/39Ar intercalibration with Ar mineral standards. Chemical Geology, 2019, 525, 282-302. | 3.3 | 19 |
| 128 | Age of Tertiary extension in the Bitterroot metamorphic core complex, Montana and Idaho. Geology, 1993, 21, 161. | 4.4 | 18 |
| 129 | Depositional and tectonic evolution of a supradetachment basin: 40 Ar/39 Ar geochronology of the Nova Formation, Panamint Range, California. Basin Research, 2000, 12, 19-30. | 2.7 | 18 |
| 130 | Climate and the Evolution of Mountains. Scientific American, 2006, 295, 72-79. | 1.0 | 18 |
| 131 | A Late Miocene acceleration of exhumation in the Himalayan crystalline core. Earth and Planetary Science Letters, 2008, 269, 1-10. | 4.4 | 18 |
| 132 | Pressureâ€“temperatureâ€“time evolution of the Central East Greenland Caledonides: quantitative constraints on crustal thickening and synorogenic extension. Journal of Metamorphic Geology, 2003, 21, 875-897. | 3.4 | 17 |
| 133 | Studentsâ€™ Perceptions of Terrascope, A Project-Based Freshman Learning Community. Journal of Science Education and Technology, 2007, 16, 349-364. | 3.9 | 17 |
| 134 | New constraints on the age of the Manaslu leucogranite: Evidence for episodic tectonic denudation in the central Himalaya: Comment and Reply. Geology, 1995, 23, 478. | 4.4 | 16 |
| 135 | Multistage extensional evolution of the central East Greenland Caledonides. Tectonics, 2002, 21, 12-1-12-28. | 2.8 | 16 |
| 136 | Implications of middle Eocene epizonal plutonism for the unroofing history of the Bitterroot metamorphic core complex, Idaho-Montana. Bulletin of the Geological Society of America, 2002, 114, 448-461. | 3.3 | 16 |
| 137 | Downstream development of a detrital cooling-age signal: Insights from <sup>40</sup>Ar/<sup>39</sup>Ar muscovite thermochronology in the Nepalese Himalaya. , 2006, , . | | 16 |
| 138 | Evidence for Pleistocene Low-Angle Normal Faulting in the Annapurna-Dhaulagiri Region, Nepal. Journal of Geology, 2015, 123, 133-151. | 1.4 | 16 |
| 139 | Footwall structural evolution of the Tucki Mountain detachment system, Death Valley region, southeastern California. Geological Society Special Publication, 1987, 28, 393-408. | 1.3 | 15 |
| 140 | Chapter 18: Constraints on the kinematics and timing of late Miocene-Recent extension between the Panamint and Black Mountains, southeastern California. Memoir of the Geological Society of America, 1990, , 363-376. | 0.5 | 15 |
| 141 | Empirical evaluation of solution models for pelitic minerals and their application to thermobarometry. Contributions To Mineralogy and Petrology, 1994, 117, 56-65. | 3.1 | 15 |
| 142 | Helium diffusion in zircon: Effects of anisotropy and radiation damage revealed by laser depth profiling. Geochimica Et Cosmochimica Acta, 2020, 274, 45-62. | 3.9 | 14 |
| 143 | Evidence of pre-Oligocene emergence of the Indian passive margin and the timing of collision initiation between India and Eurasia. Lithosphere, 2013, 5, 501-506. | 1.4 | 13 |
| 144 | Zircon and apatite (U-Th)/He evidence for Paleogene and Neogene extension in the Southern Snake Range, Nevada, USA. Tectonics, 2015, 34, 2142-2164. | 2.8 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Geological significance of <sup>40</sup>Ar/<sup>39</sup>Ar mica dates across a mid-crustal continental plate margin, Connemara (Grampian orogeny, Irish Caledonides), and implications for the evolution of lithospheric collisions. Canadian Journal of Earth Sciences, 2016, 53, 1258-1278. | 1.3 | 12 |
| 146 | U/Pb and (U-Th-Sm)/He â€œdoubleâ€•dating of detrital apatite by laser ablation: A critical evaluation. Chemical Geology, 2019, 506, 40-50. | 3.3 | 12 |
| 147 | Pandemics and the global environment. Science Advances, 2020, 6, . | 10.3 | 12 |
| 148 | Limitations on the role of pore pressure in gravity gliding. Bulletin of the Geological Society of America, 1982, 93, 606. | 3.3 | 11 |
| 149 | Diachroneity of the Clearwater West and Clearwater East impact structures indicated by the (Uâ€“Th)/He dating method. Earth and Planetary Science Letters, 2016, 453, 56-66. | 4.4 | 11 |
| 150 | Detrital zircon and apatite (U-Th)/He geochronology of intercalated baked sediments: A new approach to dating young basalt flows. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a. | 2.5 | 10 |
| 151 | Trace Elements in Continental-Margin Magmatism: Part II. Trace Elements in Ben Ghnema Batholith and Nature of the Precambrian Crust in Central North Africa. Bulletin of the Geological Society of America, 1980, 91, 1742-1788. | 3.3 | 8 |
| 152 | Robotic Follow-up for Human Exploration. , 2010, , . | | 8 |
| 153 | Field Analogue Simulations Investigating EVA/Robotic Collaboration in Lunar Exploration. , 2011, , . | | 8 |
| 154 | 9. <sup>40</sup>Ar/<sup>39</sup>Ar Thermochronology of Detrital Minerals. , 2005, , 239-258. | | 7 |
| 155 | Robotic Scouting for Human Exploration. , 2009, , . | | 7 |
| 156 | Motives, methods, and essential preparation for planetary field geology on the Moon and Mars. , 2011, , . | | 7 |
| 157 | Dendritic reidite from the Chesapeake Bay impact horizon, Ocean Drilling Program Site 1073 (offshore) Tj ETQq1 1 0.784314 rgBT /O | 4.4 | 7 |
| 158 | Laser ablation 40Ar/39Ar dating of metamorphic fabrics in the Caledonides of north Ireland. Journal of the Geological Society, 2006, 163, 337-345. | 2.1 | 6 |
| 159 | Electron Microprobe Chemical Dating of Uraninite as a Reconnaissance Tool for Leucogranite Geochronology. Nature Precedings, 0, , . | 0.1 | 6 |
| 160 | Comment on â€˜Distinguishing slow cooling versus multiphase cooling and heating in zircon and apatite (U-Th)/He datasets: The case of the McClure Mountain syenite standardâ€™ by Weisberg, Metcalf, and Flowers. Chemical Geology, 2018, 498, 150-152. | 3.3 | 6 |
| 161 | (Uâ€Th)/He zircon dating of Chesapeake Bay distal impact ejecta from ODP site 1073. Meteoritics and Planetary Science, 2019, 54, 1840-1852. | 1.6 | 6 |
| 162 | Helium Diffusion in Natural Xenotime. Geochemistry, Geophysics, Geosystems, 2019, 20, 417-433. | 2.5 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Navigating transformation of biodiversity and climate. Science Advances, 2019, 5, eaba0969. | 10.3 | 6 |
| 164 | Rapid cooling during late-stage orogenesis and implications for the collapse of the Scandian retrowedge, northern Scotland. Journal of the Geological Society, 2021, 178, . | 2.1 | 6 |
| 165 | Trace elements in continental-margin magmatism: Part II. Trace elements in Ben Ghnema batholith and nature of the Precambrian crust in central North Africa: Summary. Bulletin of the Geological Society of America, 1980, 91, 445. | 3.3 | 6 |
| 166 | Robotic recon for human exploration: Method, assessment, and lessons learned. , 2011, , . | | 5 |
| 167 | Sediment provenance and silicic volcano-tectonic evolution of the northern East African Rift System from U/Pb and (U-Th)/He laser ablation double dating of detrital zircons. Earth and Planetary Science Letters, 2022, 580, 117375. | 4.4 | 5 |
| 168 | Evidence against a Late Heavy Bombardment event on Vesta. Earth and Planetary Science Letters, 2022, 590, 117576. | 4.4 | 5 |
| 169 | Limits on the tectonic significance of rapid cooling events in extensional settings: Insights from the Bitterroot metamorphic core complex, Idaho-Montana: Comment and Reply. Geology, 1995, 23, 1051. | 4.4 | 4 |
| 170 | Solving Complex Problems. Science, 2012, 338, 1164-1165. | 12.6 | 4 |
| 171 | Exploring the variability of argon loss in Apollo 17 impact melt rock 77135 using highâ€spatial resolution40Ar/39Ar geochronology. Meteoritics and Planetary Science, 2019, 54, 721-739. | 1.6 | 4 |
| 172 | Results from Desert FLEAS III: Field Tests of EVA/Robotic Collaboration for Planetary Exploration. , 2012, , . | | 4 |
| 173 | Developing Technologies and Techniques for Robot-Augmented Human Surface Science. , 2010, , . | | 3 |
| 174 | 5.15 The Influence of Middle and Lower Crustal Flow on the Landscape Evolution of Orogenic Plateaus: Insights from the Himalaya and Tibet. , 2013, , 350-369. | | 3 |
| 175 | Imagining a new era of planetary field geology. Science Advances, 2019, 5, eaaz2484. | 10.3 | 3 |
| 176 | Sampling the Early Solar System. Science, 2020, 370, 672-673. | 12.6 | 3 |
| 177 | How air pollution may influence the course of pandemics. Science Advances, 2020, 6, . | 10.3 | 3 |
| 178 | Comment and Reply on â€˜High fluid pressure, isothermal surfaces, and the initiation of nappe movementâ€™. Geology, 1980, 8, 405. | 4.4 | 2 |
| 179 | Differential Movement across Byrd Glacier, Antarctica, as indicated by Apatite (Uâ€“Th)/He thermochronology and geomorphological analysis. Geological Society Special Publication, 2013, 381, 37-43. | 1.3 | 2 |
| 180 | Subduction undone. Nature, 2017, 543, 44-45. | 27.8 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Diffusive loss of argon in response to melt vein formation in polygenetic impact melt breccias. Journal of Geophysical Research E: Planets, 2017, 122, 1650-1671. | 3.6 | 2 |
| 182 | Structural relationship between the Karakoram and Longmu Co fault systems, southwestern Tibetan Plateau, revealed by ASTER remote sensing. , 2018, 14, 1837-1850. | | 2 |
| 183 | Comment and Reply on "Possible thermal buffering by crustal anatexis in collisional orogens: Thermobarometric evidence from the Nepalese Himalaya". Geology, 1989, 17, 574. | 4.4 | 1 |
| 184 | Mapping the local Milky Way. Science, 2016, 353, 1509.1-1509. | 12.6 | 1 |
| 185 | Coral reef islands adjust to rising sea. Science, 2020, 368, 1201.1-1201. | 12.6 | 1 |
| 186 | Exploiting Thermochronology to Quantify Exhumation Histories and Patterns of Uplift Along the Margins of Tibet. Frontiers in Earth Science, 2021, 9, . | 1.8 | 1 |
| 187 | An (U-Th)/He age for the small Monturaqui impact structure, Chile. Quaternary Geochronology, 2022, 67, 101217. | 1.4 | 1 |
| 188 | An Evaluation of Erosionalâ€€Geodynamic Thresholds for Rapid Orogenic Denudation. Journal of Geophysical Research: Solid Earth, 2021, 126, . | 3.4 | 1 |
| 189 | Comment and Reply on â€œP-T paths from garnet zoning: A new technique for deciphering tectonic processes in crystalline terranesâ€• Geology, 1985, 13, 81. | 4.4 | 0 |
| 190 | Evidence for rapid displacement on Himalayan normal faults and the importance of tectonic denudation in the evolution of mountain ranges: Comment and Reply. Geology, 1999, 27, 286. | 4.4 | 0 |
| 191 | Correction to â€œLate Cenozoic structural and tectonic development of the western margin of the central Andean Plateau in southwest Peruâ€• Tectonics, 2009, 28, n/a-n/a. | 2.8 | 0 |
| 192 | Desert FLEAS IV: Results from Field Tests of EVA/Robotic Collaborative Planetary Geological Exploration. , 2013, , . | | 0 |
| 193 | Reconciling sea surface temperature records. Science, 2017, 355, 35.2-37. | 12.6 | 0 |
| 194 | Human impacts on rainfall distribution. Science, 2017, 356, 918.8-919. | 12.6 | 0 |
| 195 | Volcanic eruptions in the deep sea. Science, 2018, 359, 172.6-173. | 12.6 | 0 |
| 196 | New moon rising. Science, 2018, 362, 41.7-42. | 12.6 | 0 |
| 197 | Colder Siberian winters in a warming world. Science, 2018, 361, 375.6-376. | 12.6 | 0 |
| 198 | Knowing when to stand down and when to stand up. Science Advances, 2019, 5, eaaz5011. | 10.3 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Consequences of nuclear war. Science, 2019, 366, 68.8-69. | 12.6 | 0 |
| 200 | Modeling groundwater depletion. Science, 2019, 364, 1146.18-1148. | 12.6 | 0 |
| 201 | Air contaminants act differently indoors. Science, 2020, 367, 864.5-865. | 12.6 | 0 |
| 202 | Arctic response to a warming world. Science, 2021, 371, 1328.1-1328. | 12.6 | 0 |
| 203 | In Science Journals. Science, 2021, 374, 704-706. | 12.6 | 0 |
| 204 | Missing freshwater found off Hawai'i. Science, 2020, 370, 1053.23-1055. | 12.6 | 0 |
| 205 | The Fine Art of Scientific Advocacy: A Tribute to Tom Lovejoy. Science Advances, 2022, 8, eabn9704. | 10.3 | 0 |