George Gehrels

List of Publications by Year
in descending order

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44 papers	4,353 citations	159573 30 h-index	289230 40 g-index
46 all docs	46 docs citations	46 times ranked	3211 citing authors

#	Article	IF	Citations
1	Communityâ€Derived Standards for ‹scp›LA‹/scp›â€‹‹scp›ICP‹/scp›â€‹‹scp›MS‹/scp› Uâ€(Thâ€)Pb Geochronology â€“ Uncertainty Propagation, Age Interpretation and Data Reporting. Geostandards and Geoanalytical Research, 2016, 40, 311-332.	3.1	570
2	Detrital Zircon U-Pb Geochronology Applied to Tectonics. Annual Review of Earth and Planetary Sciences, 2014, 42, 127-149.	11.0	565
3	Title is missing!. , 2014, 10, 49.		315
4	High-temperature geochronology constraints on the tectonic history and architecture of the ultrahigh-pressure Dabie-Sulu Orogen. Tectonics, 2006, 25, n/a-n/a.	2.8	257
5	Preliminary stratigraphic and structural architecture of Bhutan: Implications for the along strike architecture of the Himalayan system. Earth and Planetary Science Letters, 2008, 272, 105-117.	4.4	257
6	Detrital Zircon Geochronology by Laser-Ablation Multicollector ICPMS at the Arizona LaserChron Center. The Paleontological Society Papers, 2006, 12, 67-76.	0.6	188
7	Geochronology and Nd isotopic data of Grenville-age rocks in the Colombian Andes: new constraints for Late Proterozoic-Early Paleozoic paleocontinental reconstructions of the Americas. Earth and Planetary Science Letters, 1997, 150, 427-441.	4.4	146
8	Cenozoic deep crust in the Pamir. Earth and Planetary Science Letters, 2011, 312, 411-421.	4.4	117
9	U-Pb-Hf characterization of the central Coast Mountains batholith: Implications for petrogenesis and crustal architecture. Lithosphere, 2011, 3, 247-260.	1.4	115
10	Application of Foreland Basin Detritalâ€Zircon Geochronology to the Reconstruction of the Southern and Central Appalachian Orogen. Journal of Geology, 2010, 118, 23-44.	1.4	114
11	Cenozoic evolution of the Pamir plateau based on stratigraphy, zircon provenance, and stable isotopes of foreland basin sediments at Oytag (Wuyitake) in the Tarim Basin (west China). Journal of Asian Earth Sciences, 2012, 44, 136-148.	2.3	104
12	Paleozoic and Mesozoic Basement Magmatisms of Eastern Qaidam Basin, Northern Qinghaiâ€Tibet Plateau: LAâ€ICPâ€MS Zircon Uâ€Pb Geochronology and its Geological Significance. Acta Geologica Sinica, 2012, 86, 350-369.	1.4	92
13	Magmatic history and crustal genesis of western South America: Constraints from U-Pb ages and Hf isotopes of detrital zircons in modern rivers. , 2016, 12, 1532-1555.		87
14	Small-volume Uâ€“Pb zircon geochronology by laser ablation-multicollector-ICP-MS. Chemical Geology, 2009, 259, 218-229.	3.3	76
15	Structural history of the crustal-scale Coast shear zone north of Portland Canal, southeast Alaska and British Columbia. Journal of Structural Geology, 1998, 20, 883-904.	2.3	73
16	Processes controlling vertical coupling and decoupling between the upper and lower crust of orogens: results from Fiordland, New Zealand. Journal of Structural Geology, 2004, 26, 765-791.	2.3	65
17	Geochemical and Ndâ€“Srâ€“Pbâ€“O isotopic constrains on Permoâ€“Triassic magmatism in eastern Qaidam Basin, northern Qinghai-Tibetan plateau: Implications for the evolution of the Paleo-Tethys. Journal of Asian Earth Sciences, 2015, 114, 674-692.	2.3	65
18	Basin formation near the end of the 1.60â€“1.45 Ga tectonic gap in southern Laurentia: Mesoproterozoic Hess Canyon Group of Arizona and implications for ca. 1.5 Ga supercontinent configurations. Lithosphere, 2012, 4, 77-88.	1.4	59

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19	Intra-arc transpression in the lower crust and its relationship to magmatism in a Mesozoic magmatic arc. Tectonophysics, 2005, 407, 135-163.	2.2	51
20	Cambrian Sauk transgression in the Grand Canyon region redefined by detrital zircons. Nature Geoscience, 2018, 11, 438-443.	12.9	50
21	Detrital zircon provenance of Permo-Carboniferous glacial diamictites across Gondwana. Earth-Science Reviews, 2019, 192, 285-316.	9.1	50
22	Interaction of strong lower and weak middle crust during lithospheric extension in western New Zealand. Tectonics, 2007, 26, .	2.8	49
23	Birth of the northern Cordilleran orogen, as recorded by detrital zircons in Jurassic synorogenic strata and regional exhumation in Yukon. Lithosphere, 2015, 7, 541-562.	1.4	48
24	Synthesis of the 780â€“740 Ma Chuar, Uinta Mountain, and Pahrump (ChUMP) groups, western USA: Implications for Laurentia-wide cratonic marine basins. Bulletin of the Geological Society of America, 2017, 129, 607-624.	3.3	46
25	Using detrital zircon ages and Hf isotopes to identify 1.48â€“1.45Ga sedimentary basins and fingerprint sources of exotic 1.6â€“1.5Ga grains in southwestern Laurentia. Precambrian Research, 2013, 231, 409-421.	2.7	45
26	Multisystem dating of modern river detritus from Tajikistan and China: Implications for crustal evolution and exhumation of the Pamir. Lithosphere, 2014, 6, 443-455.	1.4	42
27	Early Devonian paleomagnetic data from the Lower Devonian Karheen Formation suggest Laurentia-Baltica connection for the Alexander terrane. Geology, 1995, 23, 707.	4.4	40
28	Synconvergent surface-breaking normal faults of Late Cretaceous age within the Sevier hinterland, east-central Nevada. Geology, 2009, 37, 447-450.	4.4	40
29	Batholith emplacement at mid-crustal levels and its exhumation within an obliquely convergent margin. Tectonophysics, 1999, 312, 57-78.	2.2	39
30	Detrital zircon geochronology and provenance of the southeastern Yukonâ€“Tanana terrane. Canadian Journal of Earth Sciences, 2007, 44, 297-316.	1.3	36
31	Detrital zircon geochronology and the provenance of the Harmony and Valmy Formations, Roberts Mountains allochthon, Nevada. Bulletin of the Geological Society of America, 1994, 106, 968-979.	3.3	33
32	Detrital zircon U-Pb geochronology and Hf isotope geochemistry of the Roberts Mountains allochthon: New insights into the early Paleozoic tectonics of western North America. , 2016, 12, 1016-1031.		33
33	Cretaceous shortening and exhumation history of the South Pamir terrane. Lithosphere, 2018, 10, 494-511.	1.4	32
34	Southern continuation of the Coast shear zone and Paleocene strain partitioning in British Columbiaâ€“southeast Alaska. Bulletin of the Geological Society of America, 2001, 113, 961-975.	3.3	31
35	Provenance of Eocene river sediments from the central northern Sierra Nevada and implications for paleotopography. Tectonics, 2010, 29, n/a-n/a.	2.8	25
36	The Paleoproterozoic Vishnu basin in southwestern Laurentia: Implications for supercontinent reconstructions, crustal growth, and the origin of the Mojave crustal province. Precambrian Research, 2018, 308, 1-17.	2.7	25

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37	Fluvial deposition during transition from flexural to dynamic subsidence in the Cordilleran foreland basin: Ericson Formation, Western Wyoming, USA. Basin Research, 2015, 27, 495-516.	2.7	24
38	LA-ICPMS Uâ€“Pb geochronology of detrital zircon grains from the Coconino, Moenkopi, and Chinle formations in the Petrified Forest National Park (Arizona). Geochronology, 2020, 2, 257-282.	2.5	24
39	Polyphase Proterozoic deformation in the Four Peaks area, central Arizona, and relevance for the Mazatzal orogeny. , 2015, 11, 1975-1995.		22
40	Tectonic and erosional history of southern Tibet recorded by detrital chronological signatures along the Yarlung River drainage. Bulletin of the Geological Society of America, 2017, 129, 570-581.	3.3	22
41	Algorithms and software for Uâ€Pb geochronology by LAâ€ICPMS. Geochemistry, Geophysics, Geosystems, 2016, 17, 2480-2496.	2.5	20
42	Detrital zircon provenance evidence for an early Permian longitudinal river flowing into the Midland Basin of west Texas. International Geology Review, 2020, 62, 1224-1244.	2.1	9
43	Uâ€“Pb and Hf isotopic analyses of detrital zircons from the Taku terrane, southeast Alaska. Canadian Journal of Earth Sciences, 2016, 53, 979-992.	1.3	7
44	Improving Consistency in Laser Ablation Geochronology; Workshop on Data Handling in LA-ICP-MS U-Th-Pb Geochronology; San Francisco, California, 12â€“13 December 2009. Eos, 2010, 91, 247.	0.1	5