

George Gehrels

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

3,220
citations

30
h-index

46
g-index

46
ext. papers

3,747
ext. citations

4.2
avg. IF

5.8
L-index

#	Paper	IF	Citations
46	Detrital Zircon U-Pb Geochronology Applied to Tectonics. <i>Annual Review of Earth and Planetary Sciences</i> , 2014 , 42, 127-149	15.3	388
45	Community-Derived Standards for LA-ICP-MS U-(Th-)Pb Geochronology [Uncertainty Propagation, Age Interpretation and Data Reporting. <i>Geostandards and Geoanalytical Research</i> , 2016 , 40, 311-332	3.6	350
44	2014 , 10, 49		235
43	Preliminary stratigraphic and structural architecture of Bhutan: Implications for the along strike architecture of the Himalayan system. <i>Earth and Planetary Science Letters</i> , 2008 , 272, 105-117	5.3	221
42	High-temperature geochronology constraints on the tectonic history and architecture of the ultrahigh-pressure Dabie-Sulu Orogen. <i>Tectonics</i> , 2006 , 25, n/a-n/a	4.3	211
41	Detrital Zircon U-Pb Geochronology: Current Methods and New Opportunities 2012 , 45-62		138
40	Detrital Zircon Geochronology by Laser-Ablation Multicollector ICPMS at the Arizona LaserChron Center. <i>The Paleontological Society Papers</i> , 2006 , 12, 67-76		131
39	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. <i>Earth and Planetary Science Letters</i> , 1997 , 150, 427-441	5.3	128
38	U-Pb-Hf characterization of the central Coast Mountains batholith: Implications for petrogenesis and crustal architecture. <i>Lithosphere</i> , 2011 , 3, 247-260	2.7	103
37	Cenozoic deep crust in the Pamir. <i>Earth and Planetary Science Letters</i> , 2011 , 312, 411-421	5.3	100
36	Cenozoic evolution of the Pamir plateau based on stratigraphy, zircon provenance, and stable isotopes of foreland basin sediments at Oyttag (Wuyitake) in the Tarim Basin (west China). <i>Journal of Asian Earth Sciences</i> , 2012 , 44, 136-148	2.8	88
35	Application of Foreland Basin Detrital-Zircon Geochronology to the Reconstruction of the Southern and Central Appalachian Orogen. <i>Journal of Geology</i> , 2010 , 118, 23-44	2	88
34	Small-volume U-Pb zircon geochronology by laser ablation-multicollector-ICP-MS. <i>Chemical Geology</i> , 2009 , 259, 218-229	4.2	71
33	Paleozoic and Mesozoic Basement Magmatism of Eastern Qaidam Basin, Northern Qinghai-Tibet Plateau: LA-ICP-MS Zircon U-Pb Geochronology and its Geological Significance. <i>Acta Geologica Sinica</i> , 2012 , 86, 350-369	0.7	70
32	Structural history of the crustal-scale Coast shear zone north of Portland Canal, southeast Alaska and British Columbia. <i>Journal of Structural Geology</i> , 1998 , 20, 883-904	3	64
31	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		62
30	Processes controlling vertical coupling and decoupling between the upper and lower crust of orogens: results from Fiordland, New Zealand. <i>Journal of Structural Geology</i> , 2004 , 26, 765-791	3	61

29	Geochemical and Nd-Sr-Pb isotopic constrains on Permian-Triassic magmatism in eastern Qaidam Basin, northern Qinghai-Tibetan plateau: Implications for the evolution of the Paleo-Tethys. <i>Journal of Asian Earth Sciences</i> , 2015 , 114, 674-692	2.8	46
28	Interaction of strong lower and weak middle crust during lithospheric extension in western New Zealand. <i>Tectonics</i> , 2007 , 26, n/a-n/a	4.3	46
27	Intra-arc transpression in the lower crust and its relationship to magmatism in a Mesozoic magmatic arc. <i>Tectonophysics</i> , 2005 , 407, 135-163	3.1	45
26	Basin formation near the end of the 1.60-1.45 Ga tectonic gap in southern Laurentia: Mesoproterozoic Hess Canyon Group of Arizona and implications for ca. 1.5 Ga supercontinent configurations. <i>Lithosphere</i> , 2012 , 4, 77-88	2.7	44
25	Batholith emplacement at mid-crustal levels and its exhumation within an obliquely convergent margin. <i>Tectonophysics</i> , 1999 , 312, 57-78	3.1	37
24	Early Devonian paleomagnetic data from the Lower Devonian Karheen Formation suggest Laurentia-Baltica connection for the Alexander terrane. <i>Geology</i> , 1995 , 23, 707	5	37
23	Synthesis of the 780-40 Ma Chuar, Uinta Mountain, and Pahump (ChUMP) groups, western USA: Implications for Laurentia-wide cratonic marine basins. <i>Bulletin of the Geological Society of America</i> , 2017 , 129, 607-624	3.9	35
22	Synconvergent surface-breaking normal faults of Late Cretaceous age within the Sevier hinterland, east-central Nevada. <i>Geology</i> , 2009 , 37, 447-450	5	35
21	Detrital zircon geochronology and provenance of the southeastern Yukon-Alutian terrane. <i>Canadian Journal of Earth Sciences</i> , 2007 , 44, 297-316	1.5	33
20	Birth of the northern Cordilleran orogen, as recorded by detrital zircons in Jurassic synorogenic strata and regional exhumation in Yukon. <i>Lithosphere</i> , 2015 , 7, 541-562	2.7	32
19	Using detrital zircon ages and Hf isotopes to identify 1.48-1.45Ga sedimentary basins and fingerprint sources of exotic 1.6-1.5Ga grains in southwestern Laurentia. <i>Precambrian Research</i> , 2013 , 231, 409-421	3.9	30
18	Multisystem dating of modern river detritus from Tajikistan and China: Implications for crustal evolution and exhumation of the Pamir. <i>Lithosphere</i> , 2014 , 6, 443-455	2.7	30
17	Cambrian Sauk transgression in the Grand Canyon region redefined by detrital zircons. <i>Nature Geoscience</i> , 2018 , 11, 438-443	18.3	30
16	Detrital zircon provenance of Permo-Carboniferous glacial diamictites across Gondwana. <i>Earth-Science Reviews</i> , 2019 , 192, 285-316	10.2	26
15	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		25
14	Southern continuation of the Coast shear zone and Paleocene strain partitioning in British Columbia-Southeast Alaska. <i>Bulletin of the Geological Society of America</i> , 2001 , 113, 961-975	3.9	24
13	Detrital zircon geochronology and the provenance of the Harmony and Valmy Formations, Roberts Mountains allochthon, Nevada. <i>Bulletin of the Geological Society of America</i> , 1994 , 106, 968-979	3.9	21
12	Cretaceous shortening and exhumation history of the South Pamir terrane. <i>Lithosphere</i> , 2018 , 10, 494-517	17	18

11	The Paleoproterozoic Vishnu basin in southwestern Laurentia: Implications for supercontinent reconstructions, crustal growth, and the origin of the Mojave crustal province. <i>Precambrian Research</i> , 2018 , 308, 1-17	3.9	16
10	Tectonic and erosional history of southern Tibet recorded by detrital chronological signatures along the Yarlung River drainage. <i>Bulletin of the Geological Society of America</i> , 2017 , 129, 570-581	3.9	15
9	Fluvial deposition during transition from flexural to dynamic subsidence in the Cordilleran foreland basin: Ericson Formation, Western Wyoming, USA. <i>Basin Research</i> , 2015 , 27, 495-516	3.2	15
8	Provenance of Eocene river sediments from the central northern Sierra Nevada and implications for paleotopography. <i>Tectonics</i> , 2010 , 29, n/a-n/a	4.3	15
7	Algorithms and software for U-Pb geochronology by LA-ICPMS. <i>Geochemistry, Geophysics, Geosystems</i> , 2016 , 17, 2480-2496	3.6	14
6	Polyphase Proterozoic deformation in the Four Peaks area, central Arizona, and relevance for the Mazatzal orogeny 2015 , 11, 1975-1995		14
5	LA-ICPMS U-Pb geochronology of detrital zircon grains from the Coconino, Moenkopi, and Chinle formations in the Petrified Forest National Park (Arizona). <i>Geochronology</i> , 2020 , 2, 257-282	3.8	8
4	Supplemental material: Detrital zircon U-Pb geochronology and Hf isotope geochemistry of Paleozoic and Triassic passive margin strata of western North America		7
3	Improving Consistency in Laser Ablation Geochronology; Workshop on Data Handling in LA-ICP-MS U-Th-Pb Geochronology; San Francisco, California, 12-13 December 2009. <i>Eos</i> , 2010 , 91, 247	1.5	5
2	Detrital zircon provenance evidence for an early Permian longitudinal river flowing into the Midland Basin of west Texas. <i>International Geology Review</i> , 2020 , 62, 1224-1244	2.3	4
1	U-Pb and Hf isotopic analyses of detrital zircons from the Taku terrane, southeast Alaska. <i>Canadian Journal of Earth Sciences</i> , 2016 , 53, 979-992	1.5	4