

# Rebecca Flowers

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

2,498  
citations

394421

19  
h-index

434195

31  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1468  
citing authors

#	ARTICLE	IF	CITATIONS
1	Apatite (U-Th)/He thermochronometry using a radiation damage accumulation and annealing model. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 2347-2365.	3.9	732
2	The influence of natural radiation damage on helium diffusion kinetics in apatite. <i>Earth and Planetary Science Letters</i> , 2006, 249, 148-161.	4.4	558
3	Interpreting data dispersion and "inverted" dates in apatite (U-Th)/He and fission-track datasets: An example from the US midcontinent. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 5169-5186.	3.9	146
4	Exploiting radiation damage control on apatite (U-Th)/He dates in cratonic regions. <i>Earth and Planetary Science Letters</i> , 2009, 277, 148-155.	4.4	106
5	A reporting protocol for thermochronologic modeling illustrated with data from the Grand Canyon. <i>Earth and Planetary Science Letters</i> , 2015, 432, 425-435.	4.4	99
6	Is apatite U-Th zonation information necessary for accurate interpretation of apatite (U-Th)/He thermochronometry data?. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 79, 60-78.	3.9	77
7	(U-Th)/He thermochronometry constraints on unroofing of the eastern Kaapvaal craton and significance for uplift of the southern African Plateau. <i>Geology</i> , 2010, 38, 827-830.	4.4	76
8	"Inverted" zircon and apatite (U-Th)/He dates from the Front Range, Colorado: High-damage zircon as a low-temperature (<math>50\text{ }^{\circ}\text{C}</math>) thermochronometer. <i>Earth and Planetary Science Letters</i> , 2017, 466, 80-90.	4.4	65
9	Phanerozoic burial and unroofing history of the western Slave craton and Wopmay orogen from apatite (U-Th)/He thermochronometry. <i>Earth and Planetary Science Letters</i> , 2009, 284, 1-11.	4.4	58
10	Phanerozoic surface history of the Slave craton. <i>Tectonics</i> , 2013, 32, 1066-1083.	2.8	57
11	Multistage exhumation and juxtaposition of lower continental crust in the western Canadian Shield: Linking high-resolution U-Pb and $^{40}\text{Ar}/^{39}\text{Ar}$ thermochronometry with pressure-temperature-deformation paths. <i>Tectonics</i> , 2006, 25, n/a-n/a.	2.8	55
12	Kimberlite (U-Th)/He dating links surface erosion with lithospheric heating, thinning, and metasomatism in the southern African Plateau. <i>Geology</i> , 2013, 41, 1243-1246.	4.4	55
13	Predicting and testing continental vertical motion histories since the Paleozoic. <i>Earth and Planetary Science Letters</i> , 2012, 317-318, 426-435.	4.4	48
14	Erosion patterns and mantle sources of topographic change across the southern African Plateau derived from the shallow and deep records of kimberlites. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 3235-3256.	2.5	48
15	Epeirogeny or eustasy? Paleozoic-Mesozoic vertical motion of the North American continental interior from thermochronometry and implications for mantle dynamics. <i>Earth and Planetary Science Letters</i> , 2012, 317-318, 436-445.	4.4	42
16	Diachronous development of Great Unconformities before Neoproterozoic Snowball Earth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10172-10180.	7.1	41
17	Influence of radiation damage on titanite He diffusion kinetics. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 205, 50-64.	3.9	32
18	Distinguishing slow cooling versus multiphase cooling and heating in zircon and apatite (U-Th)/He datasets: The case of the McClure Mountain syenite standard. <i>Chemical Geology</i> , 2018, 485, 90-99.	3.3	25

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19	The Late Great Unconformity of the Central Canadian Shield. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009567.	2.5	21
20	The Timing and Style of Oblique Deformation Within New Zealand's Kaikōura Ranges and Marlborough Fault System Based on Low-Temperature Thermochronology. <i>Tectonics</i> , 2019, 38, 1250-1272.	2.8	20
21	River patterns reveal two stages of landscape evolution at an oblique convergent margin, Marlborough Fault System, New Zealand. <i>Earth Surface Dynamics</i> , 2020, 8, 177-194.	2.4	19
22	Mesoproterozoic burial of the Kaapvaal craton, southern Africa during Rodinia supercontinent assembly from (U-Th)/He thermochronology. <i>Earth and Planetary Science Letters</i> , 2020, 531, 115930.	4.4	17
23	Dating kimberlite emplacement with zircon and perovskite ( $^{207}\text{Pb}/^{235}\text{U}$ )/( $^{207}\text{Pb}/^{235}\text{U}$ ) geochronology. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 4517-4533.	2.5	16
24	Late accretion to the Moon recorded in zircon (U-Th)/He thermochronometry. <i>Earth and Planetary Science Letters</i> , 2018, 482, 222-235.	4.4	16
25	Constraining Plateau Uplift in Southern Africa by Combining Thermochronology, Sediment Flux, Topography, and Landscape Evolution Modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021243.	3.4	14
26	Deciphering a 2 Gyr-Long Thermal History From a Multichronometer (U-Th)/He Study of the Phalaborwa Carbonatite, Kaapvaal Craton, South Africa. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 1581-1594.	2.5	13
27	Vestiges of the Ancient: Deep-Time Noble Gas Thermochronology. <i>Elements</i> , 2020, 16, 325-330.	0.5	13
28	Foreland-directed propagation of high-grade tectonism in the deep roots of a Paleoproterozoic collisional orogen, SW Montana, USA. <i>Lithosphere</i> , 0, , L460.1.	1.4	7
29	Mesozoic denudation history of the lower Orange River and eastward migration of erosion across the southern African Plateau. <i>Lithosphere</i> , 2020, 12, 74-87.	1.4	6
30	Response to comment on "Distinguishing slow cooling versus multiphase cooling and heating in zircon and apatite (U-Th)/He datasets: The case of the McClure Mountain syenite standard". <i>Chemical Geology</i> , 2018, 498, 153-156.	3.3	5
31	Zircon (U-Th)/He data for the Colorado Front Range "fourteeners" and testing Cryogenian exhumation of sub-Great Unconformity basement. <i>Chemical Geology</i> , 2022, 591, 120702.	3.3	4
32	Rutile (U-Th)/He Thermochronology: Temperature Sensitivity and Radiation Damage Effects. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 4737-4755.	2.5	2