

Cecile E Gautheron

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

2,949
citations

159585

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h-index

168389

53
g-index

107
all docs

107
docs citations

107
times ranked

2373
citing authors

#	ARTICLE	IF	CITATIONS
1	First Apatite (U-Th)/He and apatite fission-track thermochronology dataset from the Abancay Deflection (Eastern Cordillera, Southern Peru).. Data in Brief, 2022, 40, 107748.	1.0	0
2	Zircon (U-Th)/He Closure Temperature Lower Than Apatite Thermochronometric Systems: Reconciliation of a Paradox. Minerals (Basel, Switzerland), 2022, 12, 145.	2.0	6
3	Reading the climate signals hidden in bauxite. Geochimica Et Cosmochimica Acta, 2022, 323, 40-73.	3.9	9
4	Cenozoic weathering of fluvial terraces and emergence of biogeographic boundaries in Central Amazonia. Global and Planetary Change, 2022, 212, 103815.	3.5	5
5	Investigating the Shallow to Mid-Depth (>100–300 °C) Continental Crust Evolution with (U-Th)/He Thermochronology: A Review. Minerals (Basel, Switzerland), 2022, 12, 563.	2.0	7
6	Role of Defects and Radiation Damage on He Diffusion in Magnetite: Implication for (U-Th)/He Thermochronology. Minerals (Basel, Switzerland), 2022, 12, 590.	2.0	6
7	Pliocene river capture and incision of the northern Altiplano: Machu Picchu, Peru. Journal of the Geological Society, 2021, 178, .	2.1	7
8	Apatite (U-Th-Sm)/He date dispersion: First insights from machine learning algorithms. Earth and Planetary Science Letters, 2021, 554, 116655.	4.4	4
9	First timing constraints on the Ecuadorian Coastal Cordillera exhumation: Geodynamic implications. Journal of South American Earth Sciences, 2021, 105, 103007.	1.4	6
10	Extensional reactivation of the Penninic frontal thrust 3–4 Myr ago as evidenced by U–Pb dating on calcite in fault zone cataclastite. Solid Earth, 2021, 12, 237-251.	2.8	16
11	The role of slab geometry in the exhumation of cordilleran-type orogens and their forelands: Insights from northern Patagonia. Bulletin of the Geological Society of America, 2021, 133, 2535-2548.	3.3	8
12	(U-Th)/He Dating of Supergene Iron (Oxyhydr-)Oxides of the Nefza-Sejnane District (Tunisia): New Insights into Mineralization and Mammalian Biostratigraphy. Minerals (Basel, Switzerland), 2021, 11, 260.	2.0	7
13	Differential Exhumation of the Eastern Cordillera in the Central Andes: Evidence for Southward Verging Backthrusting (Abancay Deflection, Peru). Tectonics, 2021, 40, e2020TC006314.	2.8	9
14	French Guiana margin evolution: From Gondwana breakup to Atlantic opening. Terra Nova, 2021, 33, 415-422.	2.1	4
15	Technical note: Analytical protocols and performance for apatite and zircon (U–Th)–He analysis on quadrupole and magnetic sector mass spectrometer systems between 2007 and 2020. Geochronology, 2021, 3, 351-370.	2.5	15
16	Tectono-thermal history of the intraplate San Bernardo fold and thrust belt in central Patagonia inferred by low-temperature thermochronology. Journal of South American Earth Sciences, 2021, 109, 103333.	1.4	2
17	Thermal record of the building of an orogen in the retroforeland basin: Insight from basement and detrital thermochronology in the eastern Pyrenees and the north Pyrenean basin (France). Basin Research, 2021, 33, 2763-2791.	2.7	5
18	Post-orogenic exhumation in the western Pyrenees: evidence for extension driven by pre-orogenic inheritance. Journal of the Geological Society, 2021, 178, .	2.1	22

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19	Development and calibration of a new method geo-chronometric (U-Th-Sm)/He on magnetite and spinel in ultrabasic rocks. , 2021, , .		0
20	Record of Cenozoic weathering episodes in central Amazon basin. , 2021, , .		0
21	Exhumation and tectonic unroofing of late Miocene granites in Elba, Italy. , 2021, , .		0
22	Detailed study of a lateritic cover in NE French Guiana: dynamic evolution through time extracted from mineralogy, geochemistry and geochronology. , 2021, , .		0
23	A multi-method, multi-scale theoretical study of He and Ne diffusion in zircon. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 268, 348-367.	3.9	22
24	Where are the limits of Mesozoic intracontinental sedimentary basins of southern France?. <i>Marine and Petroleum Geology</i> , 2020, 121, 104589.	3.3	4
25	Noble Gases Deliver Cool Dates from Hot Rocks. <i>Elements</i> , 2020, 16, 303-309.	0.5	19
26	Unraveling the exhumation history of high-pressure ophiolites using magnetite (U-Th-Sm)/He thermochronometry. <i>Earth and Planetary Science Letters</i> , 2020, 543, 116359.	4.4	15
27	Tectonoâ€Stratigraphic and Thermal Evolution of the Western Betic Flysch: Implications for the Geodynamics of South Iberian Margin and Alboran Domain. <i>Tectonics</i> , 2020, 39, e2020TC006093.	2.8	14
28	Cretaceous and late Cenozoic uplift of a Variscan Massif: The case of the French Massif Central studied through low-temperature thermochronometry. <i>Lithosphere</i> , 2020, 12, 133-149.	1.4	8
29	Topography, structural and exhumation history of the Admiralty Mountains region, northern Victoria Land, Antarctica. <i>Geoscience Frontiers</i> , 2020, 11, 1841-1858.	8.4	4
30	Tectonic Control on Rapid Late Mioceneâ€Quaternary Incision of the Mekong River Knickzone, Southeast Tibetan Plateau. <i>Tectonics</i> , 2020, 39, e2019TC005782.	2.8	34
31	Neon diffusion in goethite, $\text{FeO}(\text{OH})$: a theoretical multi-scale study. <i>Physics and Chemistry of Minerals</i> , 2020, 47, 1.	0.8	9
32	Innovations in (Uâ€Th)/He, Fission Track, and Trapped Charge Thermochronometry with Applications to Earthquakes, Weathering, Surfaceâ€Mantle Connections, and the Growth and Decay of Mountains. <i>Tectonics</i> , 2019, 38, 3705-3739.	2.8	76
33	Climate control on Early Cenozoic denudation of the Namibian margin as deduced from new thermochronological constraints. <i>Earth and Planetary Science Letters</i> , 2019, 527, 115779.	4.4	12
34	Tectonothermal Evolution of the Cameros Basin: Implications for Tectonics of North Iberia. <i>Tectonics</i> , 2019, 38, 440-469.	2.8	33
35	Late Paleozoic Ice Age glaciers shaped East Antarctica landscape. <i>Earth and Planetary Science Letters</i> , 2019, 506, 123-133.	4.4	17
36	A Tortonian onset for the Algerian margin inversion: Evidence from lowâ€temperature thermochronology. <i>Terra Nova</i> , 2019, 31, 39-48.	2.1	11

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37	Polyphased Inversions of an Intracontinental Rift: Case Study of the Marrakech High Atlas, Morocco. <i>Tectonics</i> , 2018, 37, 818-841.	2.8	26
38	Improving paleohydrological and diagenetic reconstructions in calcite veins and breccia of a sedimentary basin by combining ^{47}Ti temperature, ^{18}O water and U-Pb age. <i>Chemical Geology</i> , 2018, 481, 1-17.	3.3	52
39	Combined dating of goethites and kaolinites from ferruginous duricrusts. Deciphering the Late Neogene erosion history of Central Amazonia. <i>Chemical Geology</i> , 2018, 479, 136-150.	3.3	35
40	Reproducibility of Thermal History Reconstruction From Apatite Fission Track and (U-Th)/He Data. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 2411-2436.	2.5	31
41	Computational investigation of interstitial neon diffusion in pure hematite. <i>Computational Materials Science</i> , 2017, 128, 67-74.	3.0	11
42	Neogene exhumation and relief evolution in the eastern Betics (SE Spain): Insights from the Sierra de Gador. <i>Terra Nova</i> , 2017, 29, 91-97.	2.1	23
43	Mesozoic evolution of NW Africa: implications for the Central Atlantic Ocean dynamics. <i>Journal of the Geological Society</i> , 2017, 174, 817-835.	2.1	12
44	Foreland exhumation controlled by crustal thickening in the Western Alps. <i>Geology</i> , 2017, 45, 139-142.	4.4	34
45	Helium trapping in apatite damage: Insights from (U-Th-Sm)/He dating of different granitoid lithologies. <i>Chemical Geology</i> , 2017, 470, 116-131.	3.3	41
46	Cenozoic landforms and post-orogenic landscape evolution of the Balkanide orogen: Evidence for alternatives to the tectonic denudation narrative in southern Bulgaria. <i>Geomorphology</i> , 2017, 276, 203-221.	2.6	8
47	Influence of vacancy damage on He diffusion in apatite, investigated at atomic to mineralogical scales. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 197, 87-103.	3.9	59
48	Helium diffusion in pure hematite ($\pm\text{Fe}_2\text{O}_3$) for thermochronometric applications: A theoretical multi-scale study. <i>Computational and Theoretical Chemistry</i> , 2017, 1099, 21-28.	2.5	23
49	(Un)Coupled thrust belt-foreland deformation in the northern Patagonian Andes: New insights from the Esquel-Gastre sector ($41^\circ 30' \text{S}$ – 43°S). <i>Tectonics</i> , 2016, 35, 2636-2656.	2.8	31
50	Rift-to-collision transition recorded by tectonothermal evolution of the northern Pyrenees. <i>Tectonics</i> , 2016, 35, 907-933.	2.8	63
51	Postrift history of the eastern central Atlantic passive margin: Insights from the Saharan region of South Morocco. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 4645-4666.	3.4	37
52	Timing and rate of exhumation along the Litang fault system, implication for fault reorganization in Southeast Tibet. <i>Tectonics</i> , 2015, 34, 1219-1243.	2.8	58
53	Impact of apatite chemical composition on (U-Th)/He thermochronometry: An atomistic point of view. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 167, 162-176.	3.9	74
54	Constraints on the noble gas composition of the deep mantle by bubble-by-bubble analysis of a volcanic glass sample from Iceland. <i>Chemical Geology</i> , 2015, 417, 173-183.	3.3	20

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55	Slab flattening, magmatism, and surface uplift in the Cordillera Occidental (northern Peru). <i>Geology</i> , 2015, 43, 1031-1034.	4.4	26
56	Constraints on the DUPAL anomaly from helium isotope systematics in the Southwest Indian mid-ocean ridge basalts. <i>Chemical Geology</i> , 2015, 417, 163-172.	3.3	12
57	Helium isotope systematics in the vicinity of the Azores triple junction: Constraints on the Azores geodynamics. <i>Chemical Geology</i> , 2014, 372, 62-71.	3.3	14
58	Reconstruction of low temperature (<math>< 100^{\circ}\text{C}</math>) burial in sedimentary basins: A comparison of geothermometer in the intracontinental Paris Basin. <i>Marine and Petroleum Geology</i> , 2014, 53, 71-87.	3.3	46
59	Thermal imprint of rift-related processes in orogens as recorded in the Pyrenees. <i>Earth and Planetary Science Letters</i> , 2014, 408, 296-306.	4.4	110
60	^4He behavior in calcite filling viewed by $(\text{U}^{238}\text{Th})/\text{He}$ dating, ^4He diffusion and crystallographic studies. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 125, 414-432.	3.9	22
61	Rift flank uplift at the Gulf of California: No requirement for asthenospheric upwelling. <i>Geology</i> , 2014, 42, 259-262.	4.4	24
62	Chemical influence on \pm -recoil damage annealing in apatite: Implications for $(\text{U}^{238}\text{Th})/\text{He}$ dating. <i>Chemical Geology</i> , 2013, 351, 257-267.	3.3	90
63	Direct dating of thick and thin skin thrusts in the Peruvian Subandean zone through apatite $(\text{U}^{238}\text{Th})/\text{He}$ and fission track thermochronometry. <i>Basin Research</i> , 2013, 25, 419-435.	2.7	35
64	Dynamic topography control on Patagonian relief evolution as inferred from low temperature thermochronology. <i>Earth and Planetary Science Letters</i> , 2013, 364, 157-167.	4.4	68
65	Neogene exhumation history of the Bergell massif (southeast Central Alps). <i>Terra Nova</i> , 2013, 25, 110-118.	2.1	10
66	Oligocene-Miocene burial and exhumation of the Southern Pyrenean foreland quantified by low-temperature thermochronology. <i>Journal of the Geological Society</i> , 2013, 170, 67-77.	2.1	55
67	Eocene exhumation of the Tuareg Shield (Sahara Desert, Africa). <i>Geology</i> , 2013, 41, 615-618.	4.4	48
68	Accounting for long alpha-particle stopping distances in $(\text{U}^{238}\text{Th}^{232}\text{Sm})/\text{He}$ geochronology: 3D modeling of diffusion, zoning, implantation, and abrasion. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 96, 44-56.	3.9	96
69	Late Neogene exhumation and relief development of the Aar and Aiguilles Rouges massifs (Swiss Alps) from low-temperature thermochronology modeling and $^4\text{He}/^3\text{He}$ thermochronometry. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	54
70	Post-breakup tectonics in southeast Brazil from thermochronological data and combined inverse-forward thermal history modeling. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	92
71	Accounting for long alpha-particle stopping distances in $(\text{U}^{238}\text{Th}^{232}\text{Sm})/\text{He}$ geochronology: Refinement of the baseline case. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 7779-7791.	3.9	247
72	A Monte Carlo approach to diffusion applied to noble gas/helium thermochronology. <i>Chemical Geology</i> , 2010, 273, 212-224.	3.3	90

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73	Effect of alpha-damage annealing on apatite (U ²³⁸ Th)/He thermochronology. <i>Chemical Geology</i> , 2009, 266, 157-170.	3.3	289
74	(U ²³⁸ Th)/Ne chronometry. <i>Earth and Planetary Science Letters</i> , 2006, 243, 520-535.	4.4	47
75	Reply to: "Recycled" volatiles in mantle derived diamonds" Evidence from nitrogen and noble gas isotopic data. <i>Earth and Planetary Science Letters</i> , 2006, 252, 220-222.	4.4	0
76	He, Ne and Ar composition of the European lithospheric mantle. <i>Chemical Geology</i> , 2005, 217, 97-112.	3.3	124
77	Evidence for a mantle component shown by rare gases, C and N isotopes in polycrystalline diamonds from Orapa (Botswana). <i>Earth and Planetary Science Letters</i> , 2005, 240, 559-572.	4.4	30
78	Re-interpretation of the existence of a primitive plume under Australia based on neon isotope fractionation during step heating. <i>Terra Nova</i> , 2003, 15, 36-39.	2.1	3
79	Helium signature of the subcontinental lithospheric mantle. <i>Earth and Planetary Science Letters</i> , 2002, 199, 39-47.	4.4	260
80	Quaternary ironstones in the Xingu River, eastern Amazonia (Brazil). <i>Quaternary Research</i> , 0, , 1-14.	1.7	0