

Kerry Gallagher

List of Publications by Year in Descending Order

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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.

121 papers	7,383 citations	47 h-index	84 g-index
132 ext. papers	8,103 ext. citations	4.4 avg, IF	6.04 L-index

#	Paper	IF	Citations
121	Comment on Discussion: Extracting thermal history from low temperature thermochronology/A comment on the recent exchanges between Vermeesch and Tian and Gallagher and Ketcham by Paul Green and Ian Duddy, <i>Earth Science Reviews</i> , https://doi.org/10.1016/j.earscirev.2020.103197 . <i>Earth Science Reviews</i> , 2021 , 216, 103549	10.2	2
120	Distinguishing tectonic versus climatic forcing on landscape evolution: An example from SE Tibetan Plateau. <i>Bulletin of the Geological Society of America</i> , 2021 , 133, 233-242	3.9	2
119	From sink to source: Using offshore thermochronometric data to extract onshore erosion signals in Namibia. <i>Basin Research</i> , 2021 , 33, 1580-1602	3.2	1
118	The Impact of Lithology on Fjord Morphology. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL093101	4.9	0
117	A Bayesian Approach for Thermal History Reconstruction in Basin Modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2020JB019384	3.6	1
116	Moho depth of the British Isles: a probabilistic perspective. <i>Geophysical Journal International</i> , 2020 , 221, 1384-1401	2.6	2
115	Inverse Theory, Monte Carlo Method. <i>Encyclopedia of Earth Sciences Series</i> , 2020 , 1-7	0	
114	Modelling the effects of ice transport and sediment sources on the form of detrital thermochronological age probability distributions from glacial settings. <i>Earth Surface Dynamics</i> , 2020 , 8, 931-953	3.8	2
113	Comment on the reply to the Comment on Thermal history modelling: HeFTy vs. QTQt by Vermeesch and Tian, <i>Earth-Science Reviews</i> (2014), 139, 279-290. <i>Earth-Science Reviews</i> , 2020 , 203, 102878	10.2	6
112	Estimating uncertainties on net erosion from well-log porosity data. <i>Basin Research</i> , 2020 , 32, 51-67	3.2	2
111	A new approach to thermal history modelling with detrital low temperature thermochronological data. <i>Earth and Planetary Science Letters</i> , 2020 , 529, 115872	5.3	6
110	Effects of slab-window, alkaline volcanism, and glaciation on thermochronometer cooling histories, Patagonian Andes. <i>Earth and Planetary Science Letters</i> , 2019 , 511, 164-176	5.3	17
109	Late Cretaceous to Oligocene burial and collision in western Papua New Guinea: Indications from low-temperature thermochronology and thermal modelling. <i>Tectonophysics</i> , 2019 , 752, 81-112	3.1	10
108	Long-term reactivation and morphotectonic history of the Zambezi Belt, northern Zimbabwe, revealed by multi-method thermochronometry. <i>Tectonophysics</i> , 2019 , 750, 117-136	3.1	6
107	Comment on Thermal history modelling: HeFTy vs. QTQt by Vermeesch and Tian, <i>Earth-Science Reviews</i> (2014), 139, 279-290. <i>Earth-Science Reviews</i> , 2018 , 176, 387-394	10.2	17
106	Mineral dust as a driver of carbon accumulation in northern latitudes. <i>Scientific Reports</i> , 2018 , 8, 6876	4.9	15
105	Rapid incision of the Mekong River in the middle Miocene linked to monsoonal precipitation. <i>Nature Geoscience</i> , 2018 , 11, 944-948	18.3	81

104	Contrasting Mesozoic evolution across the boundary between on and off craton regions of the South African plateau inferred from apatite fission track and (U-Th-Sm)/He thermochronology. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 1517-1547	3.6	23
103	Helium trapping in apatite damage: Insights from (U-Th-Sm)/He dating of different granitoid lithologies. <i>Chemical Geology</i> , 2017 , 470, 116-131	4.2	35
102	Evidence for Eocene-Oligocene glaciation in the landscape of the East Greenland margin. <i>Geology</i> , 2016 , 44, 895-898	5	20
101	Retro-wedge foreland basin evolution along the ECORS line, eastern Pyrenees, France. <i>Journal of the Geological Society</i> , 2016 , 173, 419-437	2.7	48
100	Comment on A reporting protocol for thermochronologic modeling illustrated with data from the Grand Canyon by Flowers, Farley and Ketcham. <i>Earth and Planetary Science Letters</i> , 2016 , 441, 211-212	5.3	17
99	The chronology and tectonic style of landscape evolution along the elevated Atlantic continental margin of South Africa resolved by joint apatite fission track and (U-Th-Sm)/He thermochronology. <i>Tectonics</i> , 2016 , 35, 511-545	4.3	72
98	Intracontinental deformation in southern Africa during the Late Cretaceous. <i>Journal of African Earth Sciences</i> , 2014 , 100, 20-41	2.2	37
97	Passive temperature tomography experiments to characterize transmissivity and connectivity of preferential flow paths in fractured media. <i>Journal of Hydrology</i> , 2014 , 512, 549-562	6	50
96	Upper Cretaceous exhumation of the western Rhodope Metamorphic Province (Chalkidiki Peninsula, northern Greece). <i>Tectonics</i> , 2014 , 33, 1113-1132	4.3	25
95	Tectonic setting of the Taubaté Basin (Southeastern Brazil): Insights from regional seismic profiles and outcrop data. <i>Journal of South American Earth Sciences</i> , 2013 , 42, 194-204	2	35
94	Reply to: The mountains of North-East Greenland are not remnants of the Caledonian topography. A comment on Pedersen et al. (2012) <i>Tectonophysics</i> , 2013 , 589, 239-244	3.1	2
93	A novel geochemical approach to paleorecords of dust deposition and effective humidity: 8500 years of peat accumulation at Store Mosse (the Great Bog), Sweden. <i>Quaternary Science Reviews</i> , 2013 , 69, 69-82	3.9	59
92	Evaluating paleoproxies for peat decomposition and their relationship to peat geochemistry. <i>Holocene</i> , 2013 , 23, 1666-1671	2.6	23
91	Transdimensional inference in the geosciences. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20110547	3	95
90	Transdimensional change-point modeling as a tool to investigate uncertainty in applied geophysical inference: An example using borehole geophysical logs. <i>Geophysics</i> , 2013 , 78, WB89-WB99	3.1	6
89	The post-orogenic evolution of the Northeast Greenland Caledonides constrained from apatite fission track analysis and inverse geodynamic modelling. <i>Tectonophysics</i> , 2012 , 530-531, 318-330	3.1	20
88	Lead atmospheric deposition rates and isotopic trends in Asian dust during the last 9.5kyr recorded in an ombrotrophic peat bog on the eastern Qinghai-Tibetan Plateau. <i>Geochimica Et Cosmochimica Acta</i> , 2012 , 82, 4-22	5.5	55
87	Uplift, denudation, and their causes and constraints over geological timescales 2012 , 608-644		8

86	Transdimensional inversion of receiver functions and surface wave dispersion. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		208
85	Transdimensional inverse thermal history modeling for quantitative thermochronology. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		299
84	Post-breakup tectonics in southeast Brazil from thermochronological data and combined inverse-forward thermal history modeling. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		70
83	New SHRIMP zircon ages from tuffs within the British Palaeozoic stratotypes. <i>Gondwana Research</i> , 2012 , 21, 719-727	5.1	7
82	Post-rift reactivation of the onshore margin of southeast Brazil: Evidence from apatite (U Th)/He and fission-track data. <i>Earth and Planetary Science Letters</i> , 2011 , 309, 118-130	5.3	74
81	Inference of abrupt changes in noisy geochemical records using transdimensional changepoint models. <i>Earth and Planetary Science Letters</i> , 2011 , 311, 182-194	5.3	65
80	Intra-parasequence architecture of an interpreted asymmetrical wave-dominated delta. <i>Sedimentology</i> , 2010 , 57, 760-785	3.3	51
79	Low-temperature thermochronology in the Peruvian Central Andes: implications for long-term continental denudation, timing of plateau uplift, canyon incision and lithosphere dynamics. <i>Journal of the Geological Society</i> , 2010 , 167, 803-815	2.7	23
78	The ICE hypothesis stands: How the dogma of late Cenozoic tectonic uplift can no longer be sustained in the light of data and physical laws. <i>Journal of Geodynamics</i> , 2010 , 50, 102-111	2.2	30
77	Discussion of Gabrielsen et al. (2010): Latest Caledonian to Present tectonomorphological development of southern Norway. <i>Marine and Petroleum Geology</i> , 2010 , 27, 1285-1289	4.7	8
76	Inference from noisy data with an unknown number of discontinuities: ideas from outside the box.. <i>ASEG Extended Abstracts</i> , 2010 , 2010, 1-5	0.2	
75	A self-parametrizing partition model approach to tomographic inverse problems. <i>Inverse Problems</i> , 2009 , 25, 055009	2.3	45
74	A Bayesian partition modelling approach to resolve spatial variability in climate records from borehole temperature inversion. <i>Geophysical Journal International</i> , 2009 , 178, 651-666	2.6	21
73	A Bayesian approach to inverse modelling of stratigraphy, part 1: method. <i>Basin Research</i> , 2009 , 21, 5-25	3.2	38
72	A Bayesian approach to inverse modelling of stratigraphy, part 2: Validation tests. <i>Basin Research</i> , 2009 , 21, 27-45	3.2	16
71	Fractionation of lithium isotopes in magmatic systems as a natural consequence of cooling. <i>Earth and Planetary Science Letters</i> , 2009 , 278, 286-296	5.3	47
70	The influence of climate, hydrology and permafrost on Holocene peat accumulation at 3500m on the eastern Qinghai-Tibetan Plateau. <i>Quaternary Science Reviews</i> , 2009 , 28, 3303-3314	3.9	27
69	The evolution of western Scandinavian topography: A review of Neogene uplift versus the ICE (isostasy-climate-erosion) hypothesis. <i>Journal of Geodynamics</i> , 2009 , 47, 72-95	2.2	144

68	Reply to comment regarding the ICE-hypothesis. <i>Journal of Geodynamics</i> , 2009 , 48, 101-106	2.2	15
67	Sediment supply to the Orange sedimentary system over the last 150My: An evaluation from sedimentation/denudation balance. <i>Marine and Petroleum Geology</i> , 2009 , 26, 782-794	4.7	44
66	Markov chain Monte Carlo (MCMC) sampling methods to determine optimal models, model resolution and model choice for Earth Science problems. <i>Marine and Petroleum Geology</i> , 2009 , 26, 525-535	4.7	178
65	Thermochemical interpretation of 1-D seismic data for the lower mantle: The significance of nonadiabatic thermal gradients and compositional heterogeneity. <i>Journal of Geophysical Research</i> , 2009 , 114,		51
64	Three-dimensional simulation and inversion of borehole temperatures for reconstructing past climate in complex settings. <i>Journal of Geophysical Research</i> , 2009 , 114,		8
63	A reassessment of the role of ice sheet glaciation in the long-term evolution of the East Greenland fjord region. <i>Geomorphology</i> , 2008 , 97, 109-125	4.3	34
62	The Earth's dynamic surface: an overview. <i>Geological Society Special Publication</i> , 2008 , 296, 1-5	1.7	
61	Inference of past climate from borehole temperature data using Bayesian Reversible Jump Markov chain Monte Carlo. <i>Geophysical Journal International</i> , 2007 , 171, 1430-1439	2.6	39
60	Rare earth element and Pb isotope variations in a 52 kyr peat core from Lynch Crater (NE Queensland, Australia): Proxy development and application to paleoclimate in the Southern Hemisphere. <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 942-960	5.5	56
59	Low temperature thermochronology and strategies for multiple samples. <i>Earth and Planetary Science Letters</i> , 2006 , 241, 557-570	5.3	30
58	A Bayesian approach to calibrating apatite fission track annealing models for laboratory and geological timescales. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 5183-5200	5.5	26
57	Trans-dimensional inverse problems, model comparison and the evidence. <i>Geophysical Journal International</i> , 2006 , 167, 528-542	2.6	204
56	Bayesian Mixture Modelling in Geochronology via Markov Chain Monte Carlo. <i>Mathematical Geosciences</i> , 2006 , 38, 269-300		47
55	Exploiting 3D Spatial Sampling in Inverse Modeling of Thermochronological Data. <i>Reviews in Mineralogy and Geochemistry</i> , 2005 , 58, 375-387	7.1	13
54	Low temperature thermochronology and modeling strategies for multiple samples 1: Vertical profiles. <i>Earth and Planetary Science Letters</i> , 2005 , 237, 193-208	5.3	69
53	Denudational and thermal history of the Early Cretaceous Brandberg and Okenyenya igneous complexes on Namibia's Atlantic passive margin. <i>Tectonics</i> , 2005 , 24, n/a-n/a	4.3	48
52	Towards a coupled physical and chemical model for tonalite-trondhjemite-granodiorite magma formation. <i>Lithos</i> , 2005 , 79, 43-60	2.9	26
51	14. Exploiting 3D Spatial Sampling in Inverse Modeling of Thermochronological Data 2005 , 375-388		1

50	20. Visualizing Thermotectonic and Denudation Histories Using Apatite Fission Track Thermochronology 2005 , 527-566		10
49	Characterizing the significance of provenance on the inference of thermal history models from apatite fission-track data: A synthetic data study 2004 ,		7
48	Beyond kriging: dealing with discontinuous spatial data fields using adaptive prior information and Bayesian partition modelling. <i>Geological Society Special Publication</i> , 2004 , 239, 195-209	1.7	15
47	Accurate and precise Pb isotope ratio measurements in environmental samples by MC-ICP-MS. <i>International Journal of Mass Spectrometry</i> , 2004 , 232, 205-215	1.9	73
46	Discussion and Reply: Shaping the Australian crust over the last 300 million years: Insights from fission track thermotectonic imaging and denudation studies of key terranes. <i>Australian Journal of Earth Sciences</i> , 2003 , 50, 645-650	1.4	3
45	Evidence for post-early Eocene tectonic activity in southeastern Ireland. <i>Geological Magazine</i> , 2003 , 140, 101-118	2	11
44	Discussion and Reply Shaping the Australian crust over the last 300 million years: insights from fission track thermotectonic imaging and denudation studies of key terranes. <i>Australian Journal of Earth Sciences</i> , 2003 , 50, 645-650	1.4	
43	Denudation history of the continental margin of western peninsular India since the early Mesozoic: Reconciling apatite fission-track data with geomorphology. <i>Earth and Planetary Science Letters</i> , 2003 , 215, 187-201	5.3	104
42	Shaping the Australian crust over the last 300 million years: Insights from fission track thermotectonic imaging and denudation studies of key terranes. <i>Australian Journal of Earth Sciences</i> , 2002 , 49, 697-717	1.4	137
41	Present and past influence of the Iceland Plume on sedimentation. <i>Geological Society Special Publication</i> , 2002 , 196, 13-25	1.7	55
40	The post-Variscan thermal and denudational history of Ireland. <i>Geological Society Special Publication</i> , 2002 , 196, 371-399	1.7	11
39	Paleocene initiation of Cenozoic uplift in Norway. <i>Geological Society Special Publication</i> , 2002 , 196, 45-65	1.7	15
38	Late Cretaceous reactivation of major crustal shear zones in northern Namibia: constraints from apatite fission track analysis. <i>Tectonophysics</i> , 2002 , 349, 75-92	3.1	79
37	Stochastic thermal history modelling. 1. Constraining heat flow histories and their uncertainty. <i>Marine and Petroleum Geology</i> , 2002 , 19, 633-648	4.7	15
36	Partial melting of mafic (amphibolitic) lower crust by periodic influx of basaltic magma. <i>Earth and Planetary Science Letters</i> , 2001 , 193, 483-499	5.3	354
35	A preliminary Mesozoic and Cenozoic denudation history of the North East Greenland onshore margin. <i>Global and Planetary Change</i> , 2000 , 24, 261-274	4.2	32
34	Tectonic controls on magmatism associated with continental break-up: an example from the Paraná Etendeka Province. <i>Earth and Planetary Science Letters</i> , 2000 , 179, 335-349	5.3	63
33	The Mesozoic denudation history of the Atlantic margins of southern Africa and southeast Brazil and the relationship to offshore sedimentation. <i>Geological Society Special Publication</i> , 1999 , 153, 41-53	1.7	36

32	Denudation and uplift at passive margins: the record on the Atlantic Margin of southern Africa. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1999 , 357, 835-859	3	86
31	Accelerated denudation and tectonic/geomorphic reactivation of the cratons of northeastern Brazil during the Late Cretaceous. <i>Journal of Geophysical Research</i> , 1998 , 103, 27091-27105		64
30	FISSION TRACK ANALYSIS AND ITS APPLICATIONS TO GEOLOGICAL PROBLEMS. <i>Annual Review of Earth and Planetary Sciences</i> , 1998 , 26, 519-572	15.3	480
29	Inverse thermal history modelling as a hydrocarbon exploration tool. <i>Inverse Problems</i> , 1998 , 14, 479-497	2.3	6
28	A novel approach for constraining heat flow histories in sedimentary basins. <i>Geological Society Special Publication</i> , 1998 , 141, 223-239	1.7	2
27	The onshore record of passive margin evolution. <i>Journal of the Geological Society</i> , 1997 , 154, 451-457	2.7	103
26	Volcanic and nonvolcanic rifted margins of the Red Sea and Gulf of Aden: Crustal cooling and margin evolution in Yemen. <i>Geochimica Et Cosmochimica Acta</i> , 1997 , 61, 2511-2527	5.5	79
25	The role of thermal conductivity measurements in modelling thermal histories in sedimentary basins. <i>Marine and Petroleum Geology</i> , 1997 , 14, 201-214	4.7	20
24	Mantle plumes, flood basalts, and thermal models for melt generation beneath continents: Assessment of a conductive heating model and application to the Paran�. <i>Journal of Geophysical Research</i> , 1996 , 101, 11503-11518		110
23	Denudation, fission track analysis and the long-term evolution of passive margin topography: application to the southeast Brazilian margin. <i>Journal of South American Earth Sciences</i> , 1995 , 8, 65-77	2	62
22	Evolving temperature histories from apatite fission-track data. <i>Earth and Planetary Science Letters</i> , 1995 , 136, 421-435	5.3	347
21	Calc-alkaline magmatism, lithospheric thinning and extension in the Basin and Range. <i>Journal of Geophysical Research</i> , 1995 , 100, 10271-10286		178
20	A quantitative assessment of the effects of magmatism on the thermal history of the Karoo sedimentary sequence. <i>Journal of African Earth Sciences</i> , 1994 , 18, 227-243	2.2	47
19	Destructive plate margin magmatism: Geochemistry and melt generation. <i>Lithos</i> , 1994 , 33, 169-188	2.9	91
18	Genetic algorithms: A powerful tool for large-scale nonlinear optimization problems. <i>Computers and Geosciences</i> , 1994 , 20, 1229-1236	4.5	121
17	Constraints on the vertical motion of eastern Australia during the Mesozoic. <i>Basin Research</i> , 1994 , 6, 77-94	3.2	52
16	The denudation history of the onshore continental margin of SE Brazil inferred from apatite fission track data. <i>Journal of Geophysical Research</i> , 1994 , 99, 18117-18145		136
15	Mantle plumes, continental magmatism and asymmetry in the South Atlantic. <i>Earth and Planetary Science Letters</i> , 1994 , 123, 105-117	5.3	46

14	Basaltic volcanism in the Southern Basin and Range: no role for a mantle plume. <i>Earth and Planetary Science Letters</i> , 1993 , 116, 45-62	5.3	117
13	Mantle hotspots, plumes and regional tectonics as causes of intraplate magmatism. <i>Terra Nova</i> , 1993 , 5, 552-559	3	59
12	Mantle and Slab Contributions in ARC Magmas. <i>Annual Review of Earth and Planetary Sciences</i> , 1993 , 21, 175-204	15.3	649
11	Paranmagmatism and the opening of the South Atlantic. <i>Geological Society Special Publication</i> , 1992 , 68, 221-240	1.7	81
10	Dehydration melting and the generation of continental flood basalts. <i>Nature</i> , 1992 , 358, 57-59	50.4	308
9	The resolution of past heat flow in sedimentary basins from non-linear inversion of geochemical data: the smoothest model approach, with synthetic examples. <i>Geophysical Journal International</i> , 1992 , 109, 78-95	2.6	22
8	Estimating kinetic parameters for organic reactions from geological data: an example from the Gippsland Basin, Australia. <i>Applied Geochemistry</i> , 1991 , 6, 653-664	3.5	4
7	Genetic algorithms: An evolution from Monte Carlo Methods for strongly non-linear geophysical optimization problems. <i>Geophysical Research Letters</i> , 1991 , 18, 2177-2180	4.9	57
6	Some Strategies For Wstimating Present Day Heat Flow From Exploration Wells, With Examples. <i>Exploration Geophysics</i> , 1990 , 21, 145-159	1	7
5	An examination of some uncertainties associated with estimates of sedimentation rates and tectonic subsidence. <i>Basin Research</i> , 1989 , 2, 97-114	3.2	42
4	Subsidence, sedimentation and sea-level changes in the Eromanga Basin, Australia. <i>Basin Research</i> , 1989 , 2, 115-131	3.2	58
3	Thermal Conductivity of Sedimentary and Basement Rocks From the Eromanga and Cooper Basins, South Australia. <i>Exploration Geophysics</i> , 1987 , 18, 381-391	1	17
2	Thermal Conductivity And Heat Flow In The Southern Cooper Basin. <i>Exploration Geophysics</i> , 1987 , 18, 62-65	1	6
1	Real-parameter optimization performance study on the CEC-2005 benchmark with SPC-PNX		41