

# Nicolas Flament

## List of Publications by Year in descending order

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58  
papers

2,703  
citations

186209

28  
h-index

182361

51  
g-index

69  
all docs

69  
docs citations

69  
times ranked

2459  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assembly of the basal mantle structure beneath Africa. <i>Nature</i> , 2022, 603, 846-851.	13.7	19
2	Long-term Phanerozoic sea level change from solid Earth processes. <i>Earth and Planetary Science Letters</i> , 2022, 584, 117451.	1.8	21
3	Northwest Pacific-Izanagi plate tectonics since Cretaceous times from western Pacific mantle structure. <i>Earth and Planetary Science Letters</i> , 2022, 583, 117445.	1.8	30
4	Mapping global kimberlite potential from reconstructions of mantle flow over the past billion years. <i>PLoS ONE</i> , 2022, 17, e0268066.	1.1	3
5	A tectonic-rules-based mantle reference frame since 1 billion years ago – implications for supercontinent cycles and plate – mantle system evolution. <i>Solid Earth</i> , 2022, 13, 1127-1159.	1.2	16
6	Reconstructing seafloor age distributions in lost ocean basins. <i>Geoscience Frontiers</i> , 2021, 12, 769-780.	4.3	23
7	The influence of mantle flow on intracontinental basins: Three examples from Australia. <i>Basin Research</i> , 2021, 33, 1429-1453.	1.3	5
8	Coupled Evolution of Plate Tectonics and Basal Mantle Structure. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, .	1.0	10
9	Spatio-temporal evolution and dynamic origin of Jurassic-Cretaceous magmatism in the South China Block. <i>Earth-Science Reviews</i> , 2021, 217, 103605.	4.0	24
10	Modelling the role of dynamic topography and eustasy in the evolution of the Great Artesian Basin. <i>Basin Research</i> , 2021, 33, 3378-3405.	1.3	4
11	The evolution of basal mantle structure in response to supercontinent aggregation and dispersal. <i>Scientific Reports</i> , 2021, 11, 22967.	1.6	7
12	Plate tectonics and mantle controls on plume dynamics. <i>Earth and Planetary Science Letters</i> , 2020, 547, 116439.	1.8	27
13	Quantitative stratigraphic analysis in a source-to-sink numerical framework. <i>Geoscientific Model Development</i> , 2019, 12, 2571-2585.	1.3	13
14	The deep roots of Earth's surface. <i>Nature Geoscience</i> , 2019, 12, 787-788.	5.4	3
15	Constraining Absolute Plate Motions Since the Triassic. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 7231-7258.	1.4	43
16	The interplay of dynamic topography and eustasy on continental flooding in the late Paleozoic. <i>Tectonophysics</i> , 2019, 761, 108-121.	0.9	22
17	Drainage and Sedimentary Responses to Dynamic Topography. <i>Geophysical Research Letters</i> , 2019, 46, 14385-14394.	1.5	11
18	Global kinematics of tectonic plates and subduction zones since the late Paleozoic Era. <i>Geoscience Frontiers</i> , 2019, 10, 989-1013.	4.3	126

#	ARTICLE	IF	CITATIONS
19	Present-day dynamic topography and lower-mantle structure from palaeogeographically constrained mantle flow models. <i>Geophysical Journal International</i> , 2019, 216, 2158-2182.	1.0	31
20	Palaeolatitudinal distribution of lithologic indicators of climate in a palaeogeographic framework. <i>Geological Magazine</i> , 2019, 156, 331-354.	0.9	33
21	Global tectonic reconstructions with continuously deforming and evolving rigid plates. <i>Computers and Geosciences</i> , 2018, 116, 32-41.	2.0	48
22	The Dynamic Topography of Eastern China Since the Latest Jurassic Period. <i>Tectonics</i> , 2018, 37, 1274-1291.	1.3	35
23	Dynamic topography of passive continental margins and their hinterlands since the Cretaceous. <i>Gondwana Research</i> , 2018, 53, 225-251.	3.0	55
24	Tectonics and geodynamics of the eastern Tethys and northern Gondwana since the Jurassic. <i>ASEG Extended Abstracts</i> , 2018, 2018, 1-6.	0.1	1
25	On the Scales of Dynamic Topography in Whole-Mantle Convection Models. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 3140-3163.	1.0	20
26	Geodynamic reconstruction of an accreted Cretaceous back-arc basin in the Northern Andes. <i>Journal of Geodynamics</i> , 2018, 121, 115-132.	0.7	21
27	Modelling Rifting Sequence Stratigraphy Coupled with Surface Process and Thermo-Mechanical Modelling. <i>ASEG Extended Abstracts</i> , 2018, 2018, 1-1.	0.1	0
28	Influence of mantle flow on the drainage of eastern Australia since the Jurassic period. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 280-305.	1.0	37
29	Origin and evolution of the deep thermochemical structure beneath Eurasia. <i>Nature Communications</i> , 2017, 8, 14164.	5.8	55
30	Dynamic topography and eustasy controlled the paleogeographic evolution of northern Africa since the mid-Cretaceous. <i>Tectonics</i> , 2017, 36, 929-944.	1.3	28
31	Correspondence: Reply to "Numerical modelling of the PERM anomaly and the Emeishan large igneous province". <i>Nature Communications</i> , 2017, 8, 822.	5.8	6
32	The role of deep Earth dynamics in driving the flooding and emergence of New Guinea since the Jurassic. <i>Earth and Planetary Science Letters</i> , 2017, 479, 273-283.	1.8	5
33	Improving global paleogeography since the late Paleozoic using paleobiology. <i>Biogeosciences</i> , 2017, 14, 5425-5439.	1.3	111
34	The deep Earth origin of the Iceland plume and its effects on regional surface uplift and subsidence. <i>Solid Earth</i> , 2017, 8, 235-254.	1.2	17
35	The GPLates Portal: Cloud-Based Interactive 3D Visualization of Global Geophysical and Geological Data in a Web Browser. <i>PLoS ONE</i> , 2016, 11, e0150883.	1.1	41
36	Alignment between seafloor spreading directions and absolute plate motions through time. <i>Geophysical Research Letters</i> , 2016, 43, 1472-1480.	1.5	12

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37	A rapid burst in hotspot motion through the interaction of tectonics and deep mantle flow. <i>Nature</i> , 2016, 533, 239-242.	13.7	73
38	Large fluctuations of shallow seas in low-lying Southeast Asia driven by mantle flow. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 3589-3607.	1.0	28
39	Tectonic evolution and deep mantle structure of the eastern Tethys since the latest Jurassic. <i>Earth-Science Reviews</i> , 2016, 162, 293-337.	4.0	151
40	Formation of Australian continental margin highlands driven by plate-mantle interaction. <i>Earth and Planetary Science Letters</i> , 2016, 441, 60-70.	1.8	54
41	Cenozoic surface uplift from south Western Australian rivers. <i>ASEG Extended Abstracts</i> , 2015, 2015, 1-4.	0.1	0
42	Absolute plate motions since 130 Ma constrained by subduction zone kinematics. <i>Earth and Planetary Science Letters</i> , 2015, 418, 66-77.	1.8	53
43	Ridge subduction sparked reorganization of the Pacific plate-mantle system 60-50 million years ago. <i>Geophysical Research Letters</i> , 2015, 42, 1732-1740.	1.5	170
44	Tectonic speed limits from plate kinematic reconstructions. <i>Earth and Planetary Science Letters</i> , 2015, 418, 40-52.	1.8	102
45	Provenance of plumes in global convection models. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 1465-1489.	1.0	58
46	Influence of subduction history on South American topography. <i>Earth and Planetary Science Letters</i> , 2015, 430, 9-18.	1.8	67
47	Assimilating lithosphere and slab history in 4-D Earth models. <i>Physics of the Earth and Planetary Interiors</i> , 2015, 238, 8-22.	0.7	83
48	Topographic asymmetry of the South Atlantic from global models of mantle flow and lithospheric stretching. <i>Earth and Planetary Science Letters</i> , 2014, 387, 107-119.	1.8	92
49	Cenozoic uplift of south Western Australia as constrained by river profiles. <i>Tectonophysics</i> , 2014, 622, 186-197.	0.9	20
50	Linking plate tectonics and mantle flow to Earth's topography. <i>Geology</i> , 2014, 42, 927-928.	2.0	8
51	Circum-Arctic mantle structure and long-wavelength topography since the Jurassic. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 7889-7908.	1.4	31
52	Spreading continents kick-started plate tectonics. <i>Nature</i> , 2014, 513, 405-408.	13.7	116
53	The evolution of the $^{87}\text{Sr}/^{86}\text{Sr}$ of marine carbonates does not constrain continental growth. <i>Precambrian Research</i> , 2013, 229, 177-188.	1.2	63
54	A review of observations and models of dynamic topography. <i>Lithosphere</i> , 2013, 5, 189-210.	0.6	277

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55	A deep subaqueous fan depositional model for the Palaeoarchaeon (3.46 Ga) Marble Bar Cherts, Warrawoona Group, Western Australia. <i>Geological Magazine</i> , 2012, 149, 743-749.	0.9	6
56	Insights on the kinematics of the India-Eurasia collision from global geodynamic models. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	1.0	74
57	Lower crustal flow kept Archean continental flood basalts at sea level. <i>Geology</i> , 2011, 39, 1159-1162.	2.0	30
58	A case for late-Archaean continental emergence from thermal evolution models and hypsometry. <i>Earth and Planetary Science Letters</i> , 2008, 275, 326-336.	1.8	179