

Nicky White

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.

117
papers

4,309
citations

40
h-index

60
g-index

122
ext. papers

4,833
ext. citations

5.9
avg, IF

5.66
L-index

#	Paper	IF	Citations
117	Large-Scale Tectonic Forcing of the African Landscape. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021 , 126, e2021JF006345	3.8	2
116	Global influence of mantle temperature and plate thickness on intraplate volcanism. <i>Nature Communications</i> , 2021 , 12, 2045	17.4	7
115	Cenozoic Dynamic Topography of Madagascar. <i>Geochemistry, Geophysics, Geosystems</i> , 2021 , 22, e2020GC009624	3.6	1
114	Scale-Dependent Contributors to River Profile Geometry. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021 , 126, e2020JF005879	3.8	2
113	Thermal Structure of Eastern Australia's Upper Mantle and Its Relationship to Cenozoic Volcanic Activity and Dynamic Topography. <i>Geochemistry, Geophysics, Geosystems</i> , 2021 , 22, e2021GC009717	3.6	1
112	Hotspots and mantle plumes revisited: Towards reconciling the mantle heat transfer discrepancy. <i>Earth and Planetary Science Letters</i> , 2020 , 542, 116317	5.3	15
111	Time-Lapse Acoustic Imaging of Mesoscale and Fine-Scale Variability within the Faroe-Shetland Channel. <i>Journal of Geophysical Research: Oceans</i> , 2020 , 125, e2019JC015861	3.3	3
110	Time-Lapse Seismic Imaging of Oceanic Fronts and Transient Lenses Within South Atlantic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2020 , 125, e2020JC016293	3.3	6
109	Quantifying the Relationship Between Short-Wavelength Dynamic Topography and Thermomechanical Structure of the Upper Mantle Using Calibrated Parameterization of Anelasticity. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2019JB019062	3.6	18
108	Structure and dynamics of the oceanic lithosphere-asthenosphere system. <i>Physics of the Earth and Planetary Interiors</i> , 2020 , 309, 106559	2.3	9
107	Quantifying Asthenospheric and Lithospheric Controls on Mafic Magmatism Across North Africa. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 3520-3555	3.6	17
106	Reply to Geochemical Characteristics of Anatolian Basalts: Comment on Neogene Uplift and Magmatism of Anatolia: Insights from Drainage Analysis and Basaltic Geochemistry by McNab et al. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 542-544	3.6	
105	The Generation and Scaling of Longitudinal River Profiles. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019 , 124, 137-153	3.8	14
104	Continental-Scale Landscape Evolution: A History of North American Topography. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019 , 124, 2689-2722	3.8	13
103	Implications of preliminary subsidence analyses for the Parnaíba cratonic basin. <i>Geological Society Special Publication</i> , 2018 , 472, 147-156	1.7	3
102	Role of basaltic magmatism within the Parnaíba cratonic basin, NE Brazil. <i>Geological Society Special Publication</i> , 2018 , 472, 309-319	1.7	6
101	A Neogene history of mantle convective support beneath Borneo. <i>Earth and Planetary Science Letters</i> , 2018 , 496, 142-158	5.3	9

100	Neogene Uplift and Magmatism of Anatolia: Insights From Drainage Analysis and Basaltic Geochemistry. <i>Geochemistry, Geophysics, Geosystems</i> , 2018 , 19, 175-213	3.6	45
99	Calibrated Seismic Imaging of Eddy-Dominated Warm-Water Transport Across the Bellingshausen Sea, Southern Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2018 , 123, 3072-3099	3.3	9
98	Reassessing the Thermal Structure of Oceanic Lithosphere With Revised Global Inventories of Basement Depths and Heat Flow Measurements. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 9136-9161	3.6	31
97	Quantitative Relationships Between Basalt Geochemistry, Shear Wave Velocity, and Asthenospheric Temperature Beneath Western North America. <i>Geochemistry, Geophysics, Geosystems</i> , 2018 , 19, 3376-3404	3.6	23
96	Oceanic residual depth measurements, the plate cooling model, and global dynamic topography. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 2328	3.6	46
95	Causes and Consequences of Diachronous V-Shaped Ridges in the North Atlantic Ocean. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 8675-8708	3.6	8
94	Spatial Variation of Diapycnal Diffusivity Estimated From Seismic Imaging of Internal Wave Field, Gulf of Mexico. <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 9827-9854	3.3	14
93	Spatial and temporal uplift history of South America from calibrated drainage analysis. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 2321-2353	3.6	24
92	Cenozoic epeirogeny of the Indian peninsula. <i>Geochemistry, Geophysics, Geosystems</i> , 2016 , 17, 4920-4954	3.6	30
91	Seismic Imaging of Rapid Onset of Stratified Turbulence in the South Atlantic Ocean. <i>Journal of Physical Oceanography</i> , 2016 , 46, 1023-1044	2.4	18
90	An inverse method for estimating thickness and volume with time of a thin CO ₂ -filled layer at the Sleipner Field, North Sea. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 5068-5085	3.6	11
89	A continuous 55-million-year record of transient mantle plume activity beneath Iceland. <i>Nature Geoscience</i> , 2014 , 7, 914-919	18.3	64
88	A joint geochemical-geophysical record of time-dependent mantle convection south of Iceland. <i>Earth and Planetary Science Letters</i> , 2014 , 386, 86-97	5.3	25
87	The African landscape through space and time. <i>Tectonics</i> , 2014 , 33, 898-935	4.3	76
86	Accurate measurements of residual topography from the oceanic realm. <i>Tectonics</i> , 2014 , 33, 982-1015	4.3	44
85	Cenozoic epeirogeny of the Arabian Peninsula from drainage modeling. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 3723-3761	3.6	30
84	Spatial and temporal patterns of Australian dynamic topography from River Profile Modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 1384-1424	3.6	63
83	Reply to comment by Hillis et al. (2013). <i>Geophysical Journal International</i> , 2013 , 194, 680-682	2.6	5

82	Spatial and temporal patterns of Cenozoic dynamic topography around Australia. <i>Geochemistry, Geophysics, Geosystems</i> , 2013 , 14, 634-658	3.6	53
81	Crustal structure of the British Isles and its epeirogenic consequences. <i>Geophysical Journal International</i> , 2012 , 190, 705-725	2.6	33
80	Spatial and temporal evolution of injected CO2 at the Sleipner Field, North Sea. <i>Journal of Geophysical Research</i> , 2012 , 117,		76
79	Seismic imaging of a large horizontal vortex at abyssal depths beneath the Sub-Antarctic Front. <i>Nature Geoscience</i> , 2012 , 5, 542-546	18.3	21
78	Temporal and spatial evolution of dynamic support from river profiles: A framework for Madagascar. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13, n/a-n/a	3.6	53
77	An uplift history of the Colorado Plateau and its surroundings from inverse modeling of longitudinal river profiles. <i>Tectonics</i> , 2012 , 31, n/a-n/a	4.3	63
76	Evolution of deep-water rifted margins: Testing depth-dependent extensional models. <i>Tectonics</i> , 2011 , 30,	4.3	34
75	Transient convective uplift of an ancient buried landscape. <i>Nature Geoscience</i> , 2011 , 4, 562-565	18.3	97
74	Layer spreading and dimming within the CO2 plume at the sleipner field in the north sea. <i>Energy Procedia</i> , 2011 , 4, 3254-3261	2.3	17
73	Ocean circulation and mantle melting controlled by radial flow of hot pulses in the Iceland plume. <i>Nature Geoscience</i> , 2011 , 4, 558-561	18.3	40
72	Estimating Geostrophic Shear from Seismic Images of Oceanic Structure*. <i>Journal of Atmospheric and Oceanic Technology</i> , 2011 , 28, 1149-1154	2	16
71	Estimating uplift rate histories from river profiles using African examples. <i>Journal of Geophysical Research</i> , 2010 , 115,		149
70	Self-consistent strain rate and heat flow modelling of lithospheric extension: application to Newfoundland-Iberia conjugate margins. <i>Petroleum Geoscience</i> , 2010 , 16, 247-256	1.9	1
69	Abrupt transition from magma-starved to magma-rich rifting in the eastern Black Sea. <i>Geology</i> , 2009 , 37, 7-10	5	60
68	Wide-angle seismic data reveal sedimentary and crustal structure of the Eastern Black Sea. <i>The Leading Edge</i> , 2009 , 28, 1056-1065	1	8
67	Wide-angle seismic data reveal extensive overpressures in the Eastern Black Sea Basin. <i>Geophysical Journal International</i> , 2009 , 178, 1145-1163	2.6	24
66	Seismic imaging of forearc backthrusts at northern Sumatra subduction zone. <i>Geophysical Journal International</i> , 2009 , 179, 1772-1780	2.6	36
65	Scales of transient convective support beneath Africa. <i>Geology</i> , 2009 , 37, 883-886	5	52

64	A Neogene chronology of Iceland plume activity from V-shaped ridges. <i>Earth and Planetary Science Letters</i> , 2009 , 283, 1-13	5.3	34
63	Depth, age and dynamic topography of oceanic lithosphere beneath heavily sedimented Atlantic margins. <i>Earth and Planetary Science Letters</i> , 2009 , 287, 137-151	5.3	46
62	Estimating mixing rates from seismic images of oceanic structure. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	42
61	Uplift histories from river profiles. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	110
60	Internal structure of a contourite drift generated by the Antarctic Circumpolar Current. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	31
59	Quantifying transient mantle convective uplift: An example from the Faroe-Shetland basin. <i>Tectonics</i> , 2008 , 27, n/a-n/a	4.3	34
58	Cenozoic evolution of the eastern Black Sea: A test of depth-dependent stretching models. <i>Earth and Planetary Science Letters</i> , 2008 , 265, 360-378	5.3	77
57	A plume model of transient diachronous uplift at the Earth's surface. <i>Earth and Planetary Science Letters</i> , 2008 , 267, 146-160	5.3	58
56	Evolution of the Newfoundland-Iberia conjugate rifted margins. <i>Earth and Planetary Science Letters</i> , 2008 , 273, 214-226	5.3	29
55	Reappraising elastic thickness variation at oceanic trenches. <i>Journal of Geophysical Research</i> , 2007 , 112,		42
54	Estimating denudation from seismic velocities offshore northwest Ireland 2007 ,		1
53	Neogene overflow of Northern Component Water at the Greenland-Scotland Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , 2006 , 7, n/a-n/a	3.6	119
52	Accurate estimates of the spatial pattern of denudation by inversion of stacking velocity data: An example from the British Isles. <i>Geochemistry, Geophysics, Geosystems</i> , 2006 , 7, n/a-n/a	3.6	9
51	Crustal velocity structure of the British Isles; a comparison of receiver functions and wide-angle seismic data. <i>Geophysical Journal International</i> , 2006 , 166, 795-813	2.6	21
50	Solid sediment load history of the Zambezi Delta. <i>Earth and Planetary Science Letters</i> , 2005 , 238, 49-63	5.3	103
49	Reply to $^{40}\text{Ar}/^{39}\text{Ar}$ dating of the Rajahmundry Traps, Eastern India and their relationship to the Deccan Traps: Discussion by A.K. Baksi. <i>Earth and Planetary Science Letters</i> , 2005 , 239, 374-382	5.3	17
48	Cenozoic vertical motions in the Moray Firth Basin associated with initiation of the Iceland Plume. <i>Tectonics</i> , 2005 , 24, n/a-n/a	4.3	22
47	Seismic data reveal eastern Black Sea basin structure. <i>Eos</i> , 2005 , 86, 413	1.5	13

46	Constraining uplift and denudation of west African continental margin by inversion of stacking velocity data. <i>Journal of Geophysical Research</i> , 2005 , 110,		28
45	Seismic imaging of a hot upwelling beneath the British Isles. <i>Geology</i> , 2005 , 33, 345	5	54
44	Towards an Automated Strategy for Modelling Extensional Basins and Margins in Four Dimensions. <i>Geological Society Memoir</i> , 2004 , 29, 321-331	0.4	1
43	Linking Paleogene denudation and magmatic underplating beneath the British Isles. <i>Geological Magazine</i> , 2004 , 141, 345-351	2	18
42	Evolution of the Timanid-Pechora and South Barents Sea basins. <i>Geological Magazine</i> , 2004 , 141, 141-160	2	39
41	Using prior subsidence data to infer basin evolution. <i>Geological Society Special Publication</i> , 2004 , 239, 211-224	1.7	1
40	Phanerozoic vertical motions of Hudson Bay. <i>Canadian Journal of Earth Sciences</i> , 2004 , 41, 1181-1200	1.5	18
39	Anatomy and formation of oblique continental collision: South Falkland basin. <i>Tectonics</i> , 2004 , 23, n/a-n/a	3	35
38	Animated models of extensional basins and passive margins. <i>Geochemistry, Geophysics, Geosystems</i> , 2004 , 5,	3.6	12
37	Crustal trace of a hot convective sheet. <i>Geology</i> , 2003 , 31, 207	5	57
36	The elastic thickness of the British Isles. <i>Journal of the Geological Society</i> , 2003 , 160, 499-502	2.7	22
35	Subsidence analyses from the Betic Cordillera, southeast Spain. <i>Basin Research</i> , 2003 , 15, 1-21	3.2	26
34	Understanding the thermal evolution of deep-water continental margins. <i>Nature</i> , 2003 , 426, 334-43	50.4	49
33	⁴⁰ Ar/ ³⁹ Ar dating of the Rajahmundry Traps, Eastern India and their relationship to the Deccan Traps. <i>Earth and Planetary Science Letters</i> , 2003 , 208, 85-99	5.3	65
32	Shape and size of the starting Iceland plume swell. <i>Earth and Planetary Science Letters</i> , 2003 , 216, 271-283	3	32
31	Present and past influence of the Iceland Plume on sedimentation. <i>Geological Society Special Publication</i> , 2002 , 196, 13-25	1.7	55
30	A two-dimensional inverse model for extensional sedimentary basins 1. Theory. <i>Journal of Geophysical Research</i> , 2002 , 107, ETG 17-1-ETG 17-20		17
29	A two-dimensional inverse model for extensional sedimentary Basins 2. Application. <i>Journal of Geophysical Research</i> , 2002 , 107, ETG 18-1-ETG 18-14		8

28	Measuring dynamic topography: An analysis of Southeast Asia. <i>Tectonics</i> , 2002 , 21, 4-1-4-26	4.3	31
27	V-shaped ridges around Iceland: Implications for spatial and temporal patterns of mantle convection. <i>Geochemistry, Geophysics, Geosystems</i> , 2002 , 3, 1-23	3.6	83
26	Exhumation of the North Atlantic margin: introduction and background. <i>Geological Society Special Publication</i> , 2002 , 196, 1-12	1.7	31
25	Cenozoic and Cretaceous transient uplift in the Porcupine Basin and its relationship to a mantle plume. <i>Geological Society Special Publication</i> , 2001 , 188, 345-360	1.7	38
24	Quest for dynamic topography: Observations from Southeast Asia. <i>Geology</i> , 2000 , 28, 963	5	45
23	The dynamics of extensional sedimentary basins: constraints from subsidence inversion. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1999 , 357, 805-834	3	28
22	Three-dimensional seismic imaging of a dynamic Earth. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1999 , 357, 3359-3375	3	3
21	Inverse modelling of extension and denudation in the East Irish Sea and surrounding areas. <i>Earth and Planetary Science Letters</i> , 1998 , 161, 57-71	5.3	53
20	Rheology of the continental lithosphere inferred from sedimentary basins. <i>Nature</i> , 1997 , 385, 621-624	50.4	33
19	Measuring the pulse of a plume with the sedimentary record. <i>Nature</i> , 1997 , 387, 888-891	50.4	247
18	Kinematic modelling of normal fault geometries using inverse theory. <i>Geological Society Special Publication</i> , 1996 , 99, 179-188	1.7	2
17	The link between sedimentary basin inversion and igneous underplating. <i>Geological Society Special Publication</i> , 1995 , 88, 21-38	1.7	31
16	An inverse method for determining lithospheric strain rate variation on geological timescales. <i>Earth and Planetary Science Letters</i> , 1994 , 122, 351-371	5.3	53
15	Origin of anomalous Tertiary subsidence adjacent to North Atlantic continental margins. <i>Marine and Petroleum Geology</i> , 1994 , 11, 702-714	4.7	49
14	Sedimentary basin inversion caused by igneous underplating: Northwest European continental shelf. <i>Geology</i> , 1994 , 22, 147	5	133
13	Lithospheric extension and magmatism in the Porcupine Basin west of Ireland. <i>Journal of Geophysical Research</i> , 1993 , 98, 13905-13923		47
12	An automatic method for determining three-dimensional normal fault geometries. <i>Journal of Geophysical Research</i> , 1993 , 98, 17837-17857		21
11	Recovery of strain rate variation from inversion of subsidence data. <i>Nature</i> , 1993 , 366, 449-452	50.4	43

10	Lithospheric stretching in the Porcupine Basin, west of Ireland. <i>Geological Society Special Publication</i> , 1992 , 62, 327-331	1.7	9
9	A method for automatically determining normal fault geometry at depth. <i>Journal of Geophysical Research</i> , 1992 , 97, 1715-1733		16
8	Laboratory testing of an automatic method for determining normal fault geometry at depth. <i>Journal of Structural Geology</i> , 1992 , 14, 873-885	3	18
7	Calculating normal fault geometries at depth: theory and examples. <i>Geological Society Special Publication</i> , 1991 , 56, 251-260	1.7	14
6	Mesozoic magmatic activity in the North Sea Basin: implications for stretching history. <i>Geological Society Special Publication</i> , 1990 , 55, 207-227	1.7	16
5	Generating melt during lithospheric extension: Pure shear vs. simple shear. <i>Geology</i> , 1990 , 18, 327	5	75
4	Extension and subsidence of the Pearl River Mouth Basin, northern South China Sea. <i>Basin Research</i> , 1989 , 2, 205-222	3.2	88
3	Nature of lithospheric extension in the North Sea. <i>Geology</i> , 1989 , 17, 111	5	34
2	Coaxial Stretching or Lithospheric Simple Shear in the North Sea? Evidence from Deep Seismic Profiling and Subsidence 1989 ,		6
1	Formation of the "steer's head" geometry of sedimentary basins by differential stretching of the crust and mantle. <i>Geology</i> , 1988 , 16, 250	5	184