

# Nicky White

## List of Publications by Citations

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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	Measuring the pulse of a plume with the sedimentary record. <i>Nature</i> , <b>1997</b> , 387, 888-891	50.4	247
116	Formation of the "steer's head" geometry of sedimentary basins by differential stretching of the crust and mantle. <i>Geology</i> , <b>1988</b> , 16, 250	5	184
115	Estimating uplift rate histories from river profiles using African examples. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		149
114	Sedimentary basin inversion caused by igneous underplating: Northwest European continental shelf. <i>Geology</i> , <b>1994</b> , 22, 147	5	133
113	Neogene overflow of Northern Component Water at the Greenland-Scotland Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2006</b> , 7, n/a-n/a	3.6	119
112	Uplift histories from river profiles. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	110
111	Solid sediment load history of the Zambezi Delta. <i>Earth and Planetary Science Letters</i> , <b>2005</b> , 238, 49-63	5.3	103
110	Transient convective uplift of an ancient buried landscape. <i>Nature Geoscience</i> , <b>2011</b> , 4, 562-565	18.3	97
109	Extension and subsidence of the Pearl River Mouth Basin, northern South China Sea. <i>Basin Research</i> , <b>1989</b> , 2, 205-222	3.2	88
108	V-shaped ridges around Iceland: Implications for spatial and temporal patterns of mantle convection. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2002</b> , 3, 1-23	3.6	83
107	Cenozoic evolution of the eastern Black Sea: A test of depth-dependent stretching models. <i>Earth and Planetary Science Letters</i> , <b>2008</b> , 265, 360-378	5.3	77
106	The African landscape through space and time. <i>Tectonics</i> , <b>2014</b> , 33, 898-935	4.3	76
105	Spatial and temporal evolution of injected CO <sub>2</sub> at the Sleipner Field, North Sea. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117,		76
104	Generating melt during lithospheric extension: Pure shear vs. simple shear. <i>Geology</i> , <b>1990</b> , 18, 327	5	75
103	<sup>40</sup> Ar/ <sup>39</sup> Ar dating of the Rajahmundry Traps, Eastern India and their relationship to the Deccan Traps. <i>Earth and Planetary Science Letters</i> , <b>2003</b> , 208, 85-99	5.3	65
102	A continuous 55-million-year record of transient mantle plume activity beneath Iceland. <i>Nature Geoscience</i> , <b>2014</b> , 7, 914-919	18.3	64
101	Spatial and temporal patterns of Australian dynamic topography from River Profile Modeling. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2014</b> , 119, 1384-1424	3.6	63

100	An uplift history of the Colorado Plateau and its surroundings from inverse modeling of longitudinal river profiles. <i>Tectonics</i> , <b>2012</b> , 31, n/a-n/a	4.3	63
99	Abrupt transition from magma-starved to magma-rich rifting in the eastern Black Sea. <i>Geology</i> , <b>2009</b> , 37, 7-10	5	60
98	A plume model of transient diachronous uplift at the Earth's surface. <i>Earth and Planetary Science Letters</i> , <b>2008</b> , 267, 146-160	5.3	58
97	Crustal trace of a hot convective sheet. <i>Geology</i> , <b>2003</b> , 31, 207	5	57
96	Present and past influence of the Iceland Plume on sedimentation. <i>Geological Society Special Publication</i> , <b>2002</b> , 196, 13-25	1.7	55
95	Seismic imaging of a hot upwelling beneath the British Isles. <i>Geology</i> , <b>2005</b> , 33, 345	5	54
94	Temporal and spatial evolution of dynamic support from river profiles: A framework for Madagascar. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2012</b> , 13, n/a-n/a	3.6	53
93	Spatial and temporal patterns of Cenozoic dynamic topography around Australia. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2013</b> , 14, 634-658	3.6	53
92	Inverse modelling of extension and denudation in the East Irish Sea and surrounding areas. <i>Earth and Planetary Science Letters</i> , <b>1998</b> , 161, 57-71	5.3	53
91	An inverse method for determining lithospheric strain rate variation on geological timescales. <i>Earth and Planetary Science Letters</i> , <b>1994</b> , 122, 351-371	5.3	53
90	Scales of transient convective support beneath Africa. <i>Geology</i> , <b>2009</b> , 37, 883-886	5	52
89	Understanding the thermal evolution of deep-water continental margins. <i>Nature</i> , <b>2003</b> , 426, 334-43	50.4	49
88	Origin of anomalous Tertiary subsidence adjacent to North Atlantic continental margins. <i>Marine and Petroleum Geology</i> , <b>1994</b> , 11, 702-714	4.7	49
87	Lithospheric extension and magmatism in the Porcupine Basin west of Ireland. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 13905-13923		47
86	Oceanic residual depth measurements, the plate cooling model, and global dynamic topography. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2017</b> , 122, 2328	3.6	46
85	Depth, age and dynamic topography of oceanic lithosphere beneath heavily sedimented Atlantic margins. <i>Earth and Planetary Science Letters</i> , <b>2009</b> , 287, 137-151	5.3	46
84	Quest for dynamic topography: Observations from Southeast Asia. <i>Geology</i> , <b>2000</b> , 28, 963	5	45
83	Neogene Uplift and Magmatism of Anatolia: Insights From Drainage Analysis and Basaltic Geochemistry. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2018</b> , 19, 175-213	3.6	45

82	Accurate measurements of residual topography from the oceanic realm. <i>Tectonics</i> , <b>2014</b> , 33, 982-1015	4.3	44
81	Recovery of strain rate variation from inversion of subsidence data. <i>Nature</i> , <b>1993</b> , 366, 449-452	50.4	43
80	Estimating mixing rates from seismic images of oceanic structure. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	42
79	Reappraising elastic thickness variation at oceanic trenches. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		42
78	Ocean circulation and mantle melting controlled by radial flow of hot pulses in the Iceland plume. <i>Nature Geoscience</i> , <b>2011</b> , 4, 558-561	18.3	40
77	Evolution of the TimanBechora and South Barents Sea basins. <i>Geological Magazine</i> , <b>2004</b> , 141, 141-160	2	39
76	Cenozoic and Cretaceous transient uplift in the Porcupine Basin and its relationship to a mantle plume. <i>Geological Society Special Publication</i> , <b>2001</b> , 188, 345-360	1.7	38
75	Seismic imaging of forearc backthrusts at northern Sumatra subduction zone. <i>Geophysical Journal International</i> , <b>2009</b> , 179, 1772-1780	2.6	36
74	Anatomy and formation of oblique continental collision: South Falkland basin. <i>Tectonics</i> , <b>2004</b> , 23, n/a-n/a	4.3	35
73	Evolution of deep-water rifted margins: Testing depth-dependent extensional models. <i>Tectonics</i> , <b>2011</b> , 30,	4.3	34
72	A Neogene chronology of Iceland plume activity from V-shaped ridges. <i>Earth and Planetary Science Letters</i> , <b>2009</b> , 283, 1-13	5.3	34
71	Quantifying transient mantle convective uplift: An example from the Faroe-Shetland basin. <i>Tectonics</i> , <b>2008</b> , 27, n/a-n/a	4.3	34
70	Nature of lithospheric extension in the North Sea. <i>Geology</i> , <b>1989</b> , 17, 111	5	34
69	Crustal structure of the British Isles and its epeirogenic consequences. <i>Geophysical Journal International</i> , <b>2012</b> , 190, 705-725	2.6	33
68	Rheology of the continental lithosphere inferred from sedimentary basins. <i>Nature</i> , <b>1997</b> , 385, 621-624	50.4	33
67	Shape and size of the starting Iceland plume swell. <i>Earth and Planetary Science Letters</i> , <b>2003</b> , 216, 271-283	3.3	32
66	Internal structure of a contourite drift generated by the Antarctic Circumpolar Current. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2008</b> , 9, n/a-n/a	3.6	31
65	Measuring dynamic topography: An analysis of Southeast Asia. <i>Tectonics</i> , <b>2002</b> , 21, 4-1-4-26	4.3	31

64	Exhumation of the North Atlantic margin: introduction and background. <i>Geological Society Special Publication</i> , <b>2002</b> , 196, 1-12	1.7	31
63	The link between sedimentary basin inversion and igneous underplating. <i>Geological Society Special Publication</i> , <b>1995</b> , 88, 21-38	1.7	31
62	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> , <b>2018</b> , 123, 9136-9161	3.6	31
61	Cenozoic epeirogeny of the Indian peninsula. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2016</b> , 17, 4920-4954	3.6	30
60	Cenozoic epeirogeny of the Arabian Peninsula from drainage modeling. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2014</b> , 15, 3723-3761	3.6	30
59	Evolution of the Newfoundland-Iberia conjugate rifted margins. <i>Earth and Planetary Science Letters</i> , <b>2008</b> , 273, 214-226	5.3	29
58	Constraining uplift and denudation of west African continental margin by inversion of stacking velocity data. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		28
57	The dynamics of extensional sedimentary basins: constraints from subsidence inversion. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>1999</b> , 357, 805-834	3	28
56	Subsidence analyses from the Betic Cordillera, southeast Spain. <i>Basin Research</i> , <b>2003</b> , 15, 1-21	3.2	26
55	A joint geochemical-geophysical record of time-dependent mantle convection south of Iceland. <i>Earth and Planetary Science Letters</i> , <b>2014</b> , 386, 86-97	5.3	25
54	Wide-angle seismic data reveal extensive overpressures in the Eastern Black Sea Basin. <i>Geophysical Journal International</i> , <b>2009</b> , 178, 1145-1163	2.6	24
53	Spatial and temporal uplift history of South America from calibrated drainage analysis. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2017</b> , 18, 2321-2353	3.6	24
52	Quantitative Relationships Between Basalt Geochemistry, Shear Wave Velocity, and Asthenospheric Temperature Beneath Western North America. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2018</b> , 19, 3376-3404	3.6	23
51	Cenozoic vertical motions in the Moray Firth Basin associated with initiation of the Iceland Plume. <i>Tectonics</i> , <b>2005</b> , 24, n/a-n/a	4.3	22
50	The elastic thickness of the British Isles. <i>Journal of the Geological Society</i> , <b>2003</b> , 160, 499-502	2.7	22
49	Seismic imaging of a large horizontal vortex at abyssal depths beneath the Sub-Antarctic Front. <i>Nature Geoscience</i> , <b>2012</b> , 5, 542-546	18.3	21
48	Crustal velocity structure of the British Isles; a comparison of receiver functions and wide-angle seismic data. <i>Geophysical Journal International</i> , <b>2006</b> , 166, 795-813	2.6	21
47	An automatic method for determining three-dimensional normal fault geometries. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 17837-17857		21

46	Linking Paleogene denudation and magmatic underplating beneath the British Isles. <i>Geological Magazine</i> , <b>2004</b> , 141, 345-351	2	18
45	Phanerozoic vertical motions of Hudson Bay. <i>Canadian Journal of Earth Sciences</i> , <b>2004</b> , 41, 1181-1200	1.5	18
44	Laboratory testing of an automatic method for determining normal fault geometry at depth. <i>Journal of Structural Geology</i> , <b>1992</b> , 14, 873-885	3	18
43	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> , <b>2020</b> , 125, e2019JB019062	3.6	18
42	Seismic Imaging of Rapid Onset of Stratified Turbulence in the South Atlantic Ocean. <i>Journal of Physical Oceanography</i> , <b>2016</b> , 46, 1023-1044	2.4	18
41	Quantifying Asthenospheric and Lithospheric Controls on Mafic Magmatism Across North Africa. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2019</b> , 20, 3520-3555	3.6	17
40	Layer spreading and dimming within the CO <sub>2</sub> plume at the sleipner field in the north sea. <i>Energy Procedia</i> , <b>2011</b> , 4, 3254-3261	2.3	17
39	Reply to <sup>40</sup> Ar/ <sup>39</sup> 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> , <b>2005</b> , 239, 374-382	5.3	17
38	A two-dimensional inverse model for extensional sedimentary basins 1. Theory. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ETG 17-1-ETG 17-20		17
37	Estimating Geostrophic Shear from Seismic Images of Oceanic Structure*. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2011</b> , 28, 1149-1154	2	16
36	A method for automatically determining normal fault geometry at depth. <i>Journal of Geophysical Research</i> , <b>1992</b> , 97, 1715-1733		16
35	Mesozoic magmatic activity in the North Sea Basin: implications for stretching history. <i>Geological Society Special Publication</i> , <b>1990</b> , 55, 207-227	1.7	16
34	Hotspots and mantle plumes revisited: Towards reconciling the mantle heat transfer discrepancy. <i>Earth and Planetary Science Letters</i> , <b>2020</b> , 542, 116317	5.3	15
33	The Generation and Scaling of Longitudinal River Profiles. <i>Journal of Geophysical Research F: Earth Surface</i> , <b>2019</b> , 124, 137-153	3.8	14
32	Spatial Variation of Diapycnal Diffusivity Estimated From Seismic Imaging of Internal Wave Field, Gulf of Mexico. <i>Journal of Geophysical Research: Oceans</i> , <b>2017</b> , 122, 9827-9854	3.3	14
31	Calculating normal fault geometries at depth: theory and examples. <i>Geological Society Special Publication</i> , <b>1991</b> , 56, 251-260	1.7	14
30	Continental-Scale Landscape Evolution: A History of North American Topography. <i>Journal of Geophysical Research F: Earth Surface</i> , <b>2019</b> , 124, 2689-2722	3.8	13
29	Seismic data reveal eastern Black Sea basin structure. <i>Eos</i> , <b>2005</b> , 86, 413	1.5	13

28	Animated models of extensional basins and passive margins. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2004</b> , 5,	3.6	12
27	An inverse method for estimating thickness and volume with time of a thin CO <sub>2</sub> -filled layer at the Sleipner Field, North Sea. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2016</b> , 121, 5068-5085	3.6	11
26	A Neogene history of mantle convective support beneath Borneo. <i>Earth and Planetary Science Letters</i> , <b>2018</b> , 496, 142-158	5.3	9
25	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> , <b>2006</b> , 7, n/a-n/a	3.6	9
24	Lithospheric stretching in the Porcupine Basin, west of Ireland. <i>Geological Society Special Publication</i> , <b>1992</b> , 62, 327-331	1.7	9
23	Structure and dynamics of the oceanic lithosphere-asthenosphere system. <i>Physics of the Earth and Planetary Interiors</i> , <b>2020</b> , 309, 106559	2.3	9
22	Calibrated Seismic Imaging of Eddy-Dominated Warm-Water Transport Across the Bellingshausen Sea, Southern Ocean. <i>Journal of Geophysical Research: Oceans</i> , <b>2018</b> , 123, 3072-3099	3.3	9
21	Causes and Consequences of Diachronous V-Shaped Ridges in the North Atlantic Ocean. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2017</b> , 122, 8675-8708	3.6	8
20	Wide-angle seismic data reveal sedimentary and crustal structure of the Eastern Black Sea. <i>The Leading Edge</i> , <b>2009</b> , 28, 1056-1065	1	8
19	A two-dimensional inverse model for extensional sedimentary Basins 2. Application. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ETG 18-1-ETG 18-14		8
18	Global influence of mantle temperature and plate thickness on intraplate volcanism. <i>Nature Communications</i> , <b>2021</b> , 12, 2045	17.4	7
17	Time-Lapse Seismic Imaging of Oceanic Fronts and Transient Lenses Within South Atlantic Ocean. <i>Journal of Geophysical Research: Oceans</i> , <b>2020</b> , 125, e2020JC016293	3.3	6
16	Role of basaltic magmatism within the Parnaíba cratonic basin, NE Brazil. <i>Geological Society Special Publication</i> , <b>2018</b> , 472, 309-319	1.7	6
15	Coaxial Stretching or Lithospheric Simple Shear in the North Sea? Evidence from Deep Seismic Profiling and Subsidence <b>1989</b> ,		6
14	Reply to comment by Hillis et al. (2013). <i>Geophysical Journal International</i> , <b>2013</b> , 194, 680-682	2.6	5
13	Time-Lapse Acoustic Imaging of Mesoscale and Fine-Scale Variability within the Faroe-Shetland Channel. <i>Journal of Geophysical Research: Oceans</i> , <b>2020</b> , 125, e2019JC015861	3.3	3
12	Implications of preliminary subsidence analyses for the Parnaíba cratonic basin. <i>Geological Society Special Publication</i> , <b>2018</b> , 472, 147-156	1.7	3
11	Three-dimensional seismic imaging of a dynamic Earth. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>1999</b> , 357, 3359-3375	3	3

10	Kinematic modelling of normal fault geometries using inverse theory. <i>Geological Society Special Publication</i> , <b>1996</b> , 99, 179-188	1.7	2
9	Large-Scale Tectonic Forcing of the African Landscape. <i>Journal of Geophysical Research F: Earth Surface</i> , <b>2021</b> , 126, e2021JF006345	3.8	2
8	Cenozoic Dynamic Topography of Madagascar. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2021</b> , 22, e2020GC009624	3.0	2
7	Scale-Dependent Contributors to River Profile Geometry. <i>Journal of Geophysical Research F: Earth Surface</i> , <b>2021</b> , 126, e2020JF005879	3.8	2
6	Self-consistent strain rate and heat flow modelling of lithospheric extension: application to Newfoundland-Iberia conjugate margins. <i>Petroleum Geoscience</i> , <b>2010</b> , 16, 247-256	1.9	1
5	Estimating denudation from seismic velocities offshore northwest Ireland <b>2007</b> ,		1
4	Towards an Automated Strategy for Modelling Extensional Basins and Margins in Four Dimensions. <i>Geological Society Memoir</i> , <b>2004</b> , 29, 321-331	0.4	1
3	Using prior subsidence data to infer basin evolution. <i>Geological Society Special Publication</i> , <b>2004</b> , 239, 211-224	1.7	1
2	Thermal Structure of Eastern Australia's Upper Mantle and Its Relationship to Cenozoic Volcanic Activity and Dynamic Topography. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2021</b> , 22, e2021GC009717	3.6	1
1	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> , <b>2019</b> , 20, 542-544	3.6	