

Nicky White

List of Publications by Year in descending order

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121
papers

5,382
citations

61857

43
h-index

98622

67
g-index

122
all docs

122
docs citations

122
times ranked

3434
citing authors

#	ARTICLE	IF	CITATIONS
1	Measuring the pulse of a plume with the sedimentary record. <i>Nature</i> , 1997, 387, 888-891.	13.7	285
2	Formation of the "steer's head" geometry of sedimentary basins by differential stretching of the crust and mantle. <i>Geology</i> , 1988, 16, 250.	2.0	208
3	Estimating uplift rate histories from river profiles using African examples. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	187
4	Sedimentary basin inversion caused by igneous underplating: Northwest European continental shelf. <i>Geology</i> , 1994, 22, 147.	2.0	149
5	Uplift histories from river profiles. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	148
6	Neogene overflow of Northern Component Water at the Greenland-Scotland Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	1.0	140
7	Transient convective uplift of an ancient buried landscape. <i>Nature Geoscience</i> , 2011, 4, 562-565.	5.4	128
8	Solid sediment load history of the Zambezi Delta. <i>Earth and Planetary Science Letters</i> , 2005, 238, 49-63.	1.8	122
9	Spatial and temporal evolution of injected CO ₂ at the Sleipner Field, North Sea. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	108
10	Extension and subsidence of the Pearl River Mouth Basin, northern South China Sea. <i>Basin Research</i> , 1989, 2, 205-222.	1.3	106
11	V-shaped ridges around Iceland: Implications for spatial and temporal patterns of mantle convection. <i>Geochemistry, Geophysics, Geosystems</i> , 2002, 3, 1-23.	1.0	100
12	Oceanic residual depth measurements, the plate cooling model, and global dynamic topography. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 2328-2372.	1.4	93
13	A continuous 55-million-year record of transient mantle plume activity beneath Iceland. <i>Nature Geoscience</i> , 2014, 7, 914-919.	5.4	90
14	The African landscape through space and time. <i>Tectonics</i> , 2014, 33, 898-935.	1.3	89
15	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.	1.8	84
16	Spatial and temporal patterns of Australian dynamic topography from River Profile Modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 1384-1424.	1.4	81
17	Generating melt during lithospheric extension: Pure shear vs. simple shear. <i>Geology</i> , 1990, 18, 327.	2.0	79
18	Abrupt transition from magma-starved to magma-rich rifting in the eastern Black Sea. <i>Geology</i> , 2009, 37, 7-10.	2.0	79

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19	40Ar/39Ar 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.	1.8	76
20	An uplift history of the Colorado Plateau and its surroundings from inverse modeling of longitudinal river profiles. <i>Tectonics</i> , 2012, 31, .	1.3	75
21	A plume model of transient diachronous uplift at the Earth's surface. <i>Earth and Planetary Science Letters</i> , 2008, 267, 146-160.	1.8	71
22	Present and past influence of the Iceland Plume on sedimentation. <i>Geological Society Special Publication</i> , 2002, 196, 13-25.	0.8	68
23	Scales of transient convective support beneath Africa. <i>Geology</i> , 2009, 37, 883-886.	2.0	68
24	Spatial and temporal patterns of Cenozoic dynamic topography around Australia. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 634-658.	1.0	68
25	Understanding the thermal evolution of deep-water continental margins. <i>Nature</i> , 2003, 426, 334-343.	13.7	67
26	Temporal and spatial evolution of dynamic support from river profiles: A framework for Madagascar. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	1.0	64
27	Neogene Uplift and Magmatism of Anatolia: Insights From Drainage Analysis and Basaltic Geochemistry. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 175-213.	1.0	64
28	Crustal trace of a hot convective sheet. <i>Geology</i> , 2003, 31, 207.	2.0	63
29	An inverse method for determining lithospheric strain rate variation on geological timescales. <i>Earth and Planetary Science Letters</i> , 1994, 122, 351-371.	1.8	59
30	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.	1.4	59
31	Seismic imaging of a hot upwelling beneath the British Isles. <i>Geology</i> , 2005, 33, 345.	2.0	58
32	Estimating mixing rates from seismic images of oceanic structure. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	56
33	Quest for dynamic topography: Observations from Southeast Asia. <i>Geology</i> , 2000, 28, 963.	2.0	55
34	Ocean circulation and mantle melting controlled by radial flow of hot pulses in the Iceland plume. <i>Nature Geoscience</i> , 2011, 4, 558-561.	5.4	55
35	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.	1.8	53
36	Depth, age and dynamic topography of oceanic lithosphere beneath heavily sedimented Atlantic margins. <i>Earth and Planetary Science Letters</i> , 2009, 287, 137-151.	1.8	53

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37	Reappraising elastic thickness variation at oceanic trenches. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	51
38	Lithospheric extension and magmatism in the Porcupine Basin west of Ireland. <i>Journal of Geophysical Research</i> , 1993, 98, 13905-13923.	3.3	50
39	Origin of anomalous Tertiary subsidence adjacent to North Atlantic continental margins. <i>Marine and Petroleum Geology</i> , 1994, 11, 702-714.	1.5	50
40	Evolution of the Timanâ€Pechora and South Barents Sea basins. <i>Geological Magazine</i> , 2004, 141, 141-160.	0.9	48
41	Accurate measurements of residual topography from the oceanic realm. <i>Tectonics</i> , 2014, 33, 982-1015.	1.3	48
42	Recovery of strain rate variation from inversion of subsidence data. <i>Nature</i> , 1993, 366, 449-452.	13.7	46
43	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.	0.8	43
44	Seismic imaging of forearc backthrusts at northern Sumatra subduction zone. <i>Geophysical Journal International</i> , 2009, 179, 1772-1780.	1.0	43
45	Quantifying transient mantle convective uplift: An example from the Faroeâ€Shetland basin. <i>Tectonics</i> , 2008, 27, .	1.3	42
46	Anatomy and formation of oblique continental collision: South Falkland basin. <i>Tectonics</i> , 2004, 23, n/a-n/a.	1.3	41
47	The link between sedimentary basin inversion and igneous underplating. <i>Geological Society Special Publication</i> , 1995, 88, 21-38.	0.8	39
48	Internal structure of a contourite drift generated by the Antarctic Circumpolar Current. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	38
49	A Neogene chronology of Iceland plume activity from V-shaped ridges. <i>Earth and Planetary Science Letters</i> , 2009, 283, 1-13.	1.8	38
50	Spatial and temporal uplift history of <sc>S</sc>outh <sc>A</sc>merica from calibrated drainage analysis. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 2321-2353.	1.0	38
51	Nature of lithospheric extension in the North Sea. <i>Geology</i> , 1989, 17, 111.	2.0	37
52	Measuring dynamic topography: An analysis of Southeast Asia. <i>Tectonics</i> , 2002, 21, 4-1-4-26.	1.3	37
53	Exhumation of the North Atlantic margin: introduction and background. <i>Geological Society Special Publication</i> , 2002, 196, 1-12.	0.8	37
54	Evolution of deepâ€water rifted margins: Testing depthâ€dependent extensional models. <i>Tectonics</i> , 2011, 30, .	1.3	37

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55	Rheology of the continental lithosphere inferred from sedimentary basins. <i>Nature</i> , 1997, 385, 621-624.	13.7	36
56	Crustal structure of the British Isles and its epeirogenic consequences. <i>Geophysical Journal International</i> , 2012, 190, 705-725.	1.0	36
57	Cenozoic epeirogeny of the Arabian Peninsula from drainage modeling. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 3723-3761.	1.0	36
58	Shape and size of the starting Iceland plume swell. <i>Earth and Planetary Science Letters</i> , 2003, 216, 271-282.	1.8	35
59	Cenozoic epeirogeny of the Indian peninsula. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 4920-4954.	1.0	35
60	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.	1.4	34
61	Evolution of the Newfoundland-Iberia conjugate rifted margins. <i>Earth and Planetary Science Letters</i> , 2008, 273, 214-226.	1.8	33
62	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.	1.6	32
63	Seismic Imaging of Rapid Onset of Stratified Turbulence in the South Atlantic Ocean. <i>Journal of Physical Oceanography</i> , 2016, 46, 1023-1044.	0.7	32
64	A joint geochemical-geophysical record of time-dependent mantle convection south of Iceland. <i>Earth and Planetary Science Letters</i> , 2014, 386, 86-97.	1.8	31
65	Quantitative Relationships Between Basalt Geochemistry, Shear Wave Velocity, and Asthenospheric Temperature Beneath Western North America. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 3376-3404.	1.0	31
66	Constraining uplift and denudation of west African continental margin by inversion of stacking velocity data. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	30
67	Wide-angle seismic data reveal extensive overpressures in the Eastern Black Sea Basin. <i>Geophysical Journal International</i> , 2009, 178, 1145-1163.	1.0	30
68	Cenozoic vertical motions in the Moray Firth Basin associated with initiation of the Iceland Plume. <i>Tectonics</i> , 2005, 24, n/a-n/a.	1.3	29
69	An automatic method for determining three-dimensional normal fault geometries. <i>Journal of Geophysical Research</i> , 1993, 98, 17837-17857.	3.3	26
70	Subsidence analyses from the Betic Cordillera, southeast Spain. <i>Basin Research</i> , 2003, 15, 1-21.	1.3	26
71	The elastic thickness of the British Isles. <i>Journal of the Geological Society</i> , 2003, 160, 499-502.	0.9	26
72	Seismic imaging of a large horizontal vortex at abyssal depths beneath the Sub-Antarctic Front. <i>Nature Geoscience</i> , 2012, 5, 542-546.	5.4	26

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73	Quantifying Asthenospheric and Lithospheric Controls on Mafic Magmatism Across North Africa. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3520-3555.	1.0	26
74	Hotspots and mantle plumes revisited: Towards reconciling the mantle heat transfer discrepancy. <i>Earth and Planetary Science Letters</i> , 2020, 542, 116317.	1.8	25
75	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.	1.0	24
76	Global influence of mantle temperature and plate thickness on intraplate volcanism. <i>Nature Communications</i> , 2021, 12, 2045.	5.8	24
77	Continental-scale Landscape Evolution: A History of North American Topography. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 2689-2722.	1.0	23
78	A method for automatically determining normal fault geometry at depth. <i>Journal of Geophysical Research</i> , 1992, 97, 1715-1733.	3.3	22
79	Laboratory testing of an automatic method for determining normal fault geometry at depth. <i>Journal of Structural Geology</i> , 1992, 14, 873-885.	1.0	22
80	A two-dimensional inverse model for extensional sedimentary basins 1. Theory. <i>Journal of Geophysical Research</i> , 2002, 107, ETC 17-1-ETG 17-20.	3.3	22
81	Calculating normal fault geometries at depth: theory and examples. <i>Geological Society Special Publication</i> , 1991, 56, 251-260.	0.8	21
82	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.	1.0	21
83	The Generation and Scaling of Longitudinal River Profiles. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 137-153.	1.0	21
84	Structure and dynamics of the oceanic lithosphere-asthenosphere system. <i>Physics of the Earth and Planetary Interiors</i> , 2020, 309, 106559.	0.7	21
85	Linking Paleogene denudation and magmatic underplating beneath the British Isles. <i>Geological Magazine</i> , 2004, 141, 345-351.	0.9	20
86	Estimating Geostrophic Shear from Seismic Images of Oceanic Structure*. <i>Journal of Atmospheric and Oceanic Technology</i> , 2011, 28, 1149-1154.	0.5	20
87	Phanerozoic vertical motions of Hudson Bay. <i>Canadian Journal of Earth Sciences</i> , 2004, 41, 1181-1200.	0.6	19
88	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.	1.8	19
89	Layer spreading and dimming within the CO ₂ plume at the sleipner field in the north sea. <i>Energy Procedia</i> , 2011, 4, 3254-3261.	1.8	19
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.	1.4	19

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91	Mesozoic magmatic activity in the North Sea Basin: implications for stretching history. Geological Society Special Publication, 1990, 55, 207-227.	0.8	18
92	Calibrated Seismic Imaging of Eddy-Dominated Warm-Water Transport Across the Bellingshausen Sea, Southern Ocean. Journal of Geophysical Research: Oceans, 2018, 123, 3072-3099.	1.0	18
93	A Neogene history of mantle convective support beneath Borneo. Earth and Planetary Science Letters, 2018, 496, 142-158.	1.8	18
94	Seismic data reveal eastern Black Sea basin structure. Eos, 2005, 86, 413.	0.1	15
95	Causes and Consequences of Diachronous V-shaped Ridges in the North Atlantic Ocean. Journal of Geophysical Research: Solid Earth, 2017, 122, 8675-8708.	1.4	15
96	Animated models of extensional basins and passive margins. Geochemistry, Geophysics, Geosystems, 2004, 5, .	1.0	14
97	Cenozoic Dynamic Topography of Madagascar. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009624.	1.0	14
98	Lithospheric stretching in the Porcupine Basin, west of Ireland. Geological Society Special Publication, 1992, 62, 327-331.	0.8	13
99	Time-Lapse Seismic Imaging of Oceanic Fronts and Transient Lenses Within South Atlantic Ocean. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016293.	1.0	13
100	A two-dimensional inverse model for extensional sedimentary Basins 2. Application. Journal of Geophysical Research, 2002, 107, ETG 18-1-ETG 18-14.	3.3	12
101	Scale-Dependent Contributors to River Profile Geometry. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2020JF005879.	1.0	11
102	Accurate estimates of the spatial pattern of denudation by inversion of stacking velocity data: An example from the British Isles. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	1.0	10
103	Thermal Structure of Eastern Australia's Upper Mantle and Its Relationship to Cenozoic Volcanic Activity and Dynamic Topography. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009717.	1.0	10
104	Time-Lapse Acoustic Imaging of Mesoscale and Fine-Scale Variability within the Faroe-Shetland Channel. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015861.	1.0	9
105	Wide-angle seismic data reveal sedimentary and crustal structure of the Eastern Black Sea. The Leading Edge, 2009, 28, 1056-1065.	0.4	8
106	Role of basaltic magmatism within the Parnaíba cratonic basin, NE Brazil. Geological Society Special Publication, 2018, 472, 309-319.	0.8	8
107	Coaxial Stretching or Lithospheric Simple Shear in the North Sea? Evidence from Deep Seismic Profiling and Subsidence. , 1989, , .		8
108	Large-Scale Tectonic Forcing of the African Landscape. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2021JF006345.	1.0	7

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109	Reply to comment by Hillis et al. (2013). <i>Geophysical Journal International</i> , 2013, 194, 680-682.	1.0	5
110	Implications of preliminary subsidence analyses for the Parnaíba cratonic basin. <i>Geological Society Special Publication</i> , 2018, 472, 147-156.	0.8	5
111	Paleogene buried landscapes and climatic aberrations triggered by mantle plume activity. <i>Earth and Planetary Science Letters</i> , 2022, 593, 117644.	1.8	5
112	Three-dimensional seismic imaging of a dynamic Earth. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1999, 357, 3359-3375.	1.6	4
113	Kinematic modelling of normal fault geometries using inverse theory. <i>Geological Society Special Publication</i> , 1996, 99, 179-188.	0.8	2
114	Using prior subsidence data to infer basin evolution. <i>Geological Society Special Publication</i> , 2004, 239, 211-224.	0.8	2
115	Estimating denudation from seismic velocities offshore northwest Ireland. , 2007, , .		2
116	Surface sculpting by hidden agents. <i>Nature Geoscience</i> , 2016, 9, 867-869.	5.4	2
117	Densely Sampled Global Dynamic Topographic Observations and Their Significance. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	2
118	Towards an Automated Strategy for Modelling Extensional Basins and Margins in Four Dimensions. <i>Geological Society Memoir</i> , 2004, 29, 321-331.	0.9	1
119	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.	0.9	1
120	Geodynamic significance of a buried transient Carboniferous landscape. <i>Bulletin of the Geological Society of America</i> , 2022, 134, 1180-1201.	1.6	1
121	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.	1.0	0