Leigh H Royden

List of Publications by Year
in descending order

38 papers	8,489 citations	136950 32 h-index	315739 38 g-index
39 all docs	39 docs citations	39 times ranked	5853 citing authors

#	Article	IF	Citations
1	Surface Deformation and Lower Crustal Flow in Eastern Tibet. Science, 1997, 276, 788-790.	12.6	1,331
2	The Geological Evolution of the Tibetan Plateau. Science, 2008, 321, 1054-1058.	12.6	1,306
3	Evolution of retreating subduction boundaries formed during continental collision. Tectonics, 1993, 12, 629-638.	2.8	584
4	The tectonic expression slab pull at continental convergent boundaries. Tectonics, 1993, 12, 303-325.	2.8	548
5	An integral approach to bedrock river profile analysis. Earth Surface Processes and Landforms, 2013, 38, 570-576.	2.5	493
6	Segmentation and configuration of subducted lithosphere in Italy: An important control on thrust-belt and foredeep-basin evolution. Geology, 1987, 15, 714.	4.4	445
7	Mantle dynamics in the Mediterranean. Reviews of Geophysics, 2014, 52, 283-332.	23.0	394
8	Core complex geometries and regional scale flow in the lower crust. Tectonics, 1990, 9, 557-567.	2.8	295
9	Dynamic topography produced by lower crustal flow against rheological strength heterogeneities bordering the Tibetan Plateau. Geophysical Journal International, 2005, 162, 575-590.	2.4	293
10	Intracrustal detachment within zones of continental deformation. Geology, 1989, 17, 748.	4.4	267
11	Geology of the Haiyuan Fault Zone, Ningxiaâ€Hui Autonomous Region, China, and its relation to the evolution of the Northeastern Margin of the Tibetan Plateau. Tectonics, 1991, 10, 1091-1110.	2.8	261
12	Late Cenozoic extension in northeastern Greece: Strymon Valley detachment system and Rhodope metamorphic core complex. Geology, 1993, 21, 45.	4.4	245
13	Geodetic measurement of crustal motion in southwest China. Geology, 1997, 25, 179.	4.4	206
14	Anomalously fast convergence of India and Eurasia caused by double subduction. Nature Geoscience, 2015, 8, 475-478.	12.9	197
15	Evolution of the Pannonian Basin System: 2. Subsidence and thermal history. Tectonics, 1983, 2, 91-137.	2.8	158
16	Amount and style of Late Cenozoic Deformation in the Liupan Shan Area, Ningxia Autonomous Region, China. Tectonics, 1991, 10, 1111-1129.	2.8	157
17	Transform faulting, extension, and subduction in the Carpathian Pannonian region. Bulletin of the Geological Society of America, 1982, 93, 717.	3.3	154
18	Are systematic variations in thrust belt style related to plate boundary processes? (The western Alps) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.8	142

#	Article	IF	Citations
19	Trench motion, slab geometry and viscous stresses in subduction systems. Geophysical Journal International, 2006, 167, 881-905.	2.4	116
20	U-Pb and40Ar/39Ar geochronology of the Symvolon granodiorite: Implications for the thermal and structural evolution of the Rhodope metamorphic core complex, northeastern Greece. Tectonics, 1995, 14, 886-908.	2.8	110
21	Deflection, gravity anomalies and tectonics of doubly subducted continental lithosphere: Adriatic and Ionian seas. Tectonics, 1988, 7, 875-893.	2.8	105
22	Low-latitude arcâ€“continent collision as a driver for global cooling. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4935-4940.	7.1	81
23	Bending and unbending of an elastic lithosphere: The Cenozoic history of the Apennine and Dinaride foredeep basins. Tectonics, 1994, 13, 278-302.	2.8	76
24	Late Cenozoic tectonic evolution of the Ningxia-Hui Autonomous Region, China. Bulletin of the Geological Society of America, 1990, 102, 1484-1498.	3.3	65
25	Subduction Orogeny and the Late Cenozoic Evolution of the Mediterranean Arcs. Annual Review of Earth and Planetary Sciences, 2018, 46, 261-289.	11.0	60
26	Paleocene latitude of the Kohistanâ€“Ladakh arc indicates multistage Indiaâ€“Eurasia collision. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29487-29494.	7.1	57
27	Cenozoic Extension in Bulgaria and Northern Greece: the Northern Part of the Aegean Extensional Regime. Geological Society Special Publication, 2000, 173, 325-352.	1.3	54
28	Dynamics of the Ryukyu/Izu-Bonin-Marianas double subduction system. Tectonophysics, 2018, 746, 229-238.	2.2	54
29	Elastic strength of the Slave craton at 1.9 Gyr and implications for the thermal evolution of the continents. Nature, 1990, 347, 64-66.	27.8	45
30	Slab interactions in 3-D subduction settings: The Philippine Sea Plate region. Earth and Planetary Science Letters, 2018, 489, 72-83.	4.4	40
31	Episodicity in foredeep basins. Geology, 1992, 20, 915.	4.4	39
32	Constraints on unroofing rates in the High Himalaya, eastern Nepal. Tectonics, 1991, 10, 287-298.	2.8	32
33	Dominant influence of volcanic loading on vertical motions of the Hawaiian Islands. Earth and Planetary Science Letters, 2015, 418, 149-171.	4.4	26
34	Hotspot swells and the lifespan of volcanic ocean islands. Science Advances, 2020, 6, eaaw6906.	10.3	20
35	Extremal bounds on geotherms in eroding mountain belts from metamorphic pressure-temperature conditions. Geophysical Journal International, 1987, 88, 81-95.	2.4	10
36	Subduction Dynamics and Mantle Pressure: 2. Towards a Global Understanding of Slab Dip and Upper Mantle Circulation. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008771.	2.5	10

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37	Late Cenozoic extension in northeastern Greece: Strymon valley detachment system and Rhodope metamorphic core complex: Comment and Reply. Geology, 1994, 22, 283.	4.4	7
38	Subduction Dynamics and Mantle Pressure: 1. An Analytical Framework Relating Subduction Geometry, Plate Motion, and Asthenospheric Pressure. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC009032.	2.5	6