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	Hotspot swells and the lifespan of volcanic ocean islands. Science Advances, 2020, 6, eaaw6906.	10.3	20
2	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
3	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
4	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
5	Slab interactions in 3-D subduction settings: The Philippine Sea Plate region. Earth and Planetary Science Letters, 2018, 489, 72-83.	4.4	40
6	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
7	Dynamics of the Ryukyu/Izu-Bonin-Marianas double subduction system. Tectonophysics, 2018, 746, 229-238.	2.2	54
8	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
9	Dominant influence of volcanic loading on vertical motions of the Hawaiian Islands. Earth and Planetary Science Letters, 2015, 418, 149-171.	4.4	26
10	Anomalously fast convergence of India and Eurasia caused by double subduction. Nature Geoscience, 2015, 8, 475-478.	12.9	197
11	Mantle dynamics in the Mediterranean. Reviews of Geophysics, 2014, 52, 283-332.	23.0	394
12	An integral approach to bedrock river profile analysis. Earth Surface Processes and Landforms, 2013, 38, 570-576.	2.5	493
13	The Geological Evolution of the Tibetan Plateau. Science, 2008, 321, 1054-1058.	12.6	1,306
14	Trench motion, slab geometry and viscous stresses in subduction systems. Geophysical Journal International, 2006, 167, 881-905.	2.4	116
15	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
16	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
17	Geodetic measurement of crustal motion in southwest China. Geology, 1997, 25, 179.	4.4	206
18	Surface Deformation and Lower Crustal Flow in Eastern Tibet. Science, 1997, 276, 788-790.	12.6	1,331

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19	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
20	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
21	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
22	The tectonic expression slab pull at continental convergent boundaries. Tectonics, 1993, 12, 303-325.	2.8	548
23	Evolution of retreating subduction boundaries formed during continental collision. Tectonics, 1993, 12, 629-638.	2.8	584
24	Late Cenozoic extension in northeastern Greece: Strymon Valley detachment system and Rhodope metamorphic core complex. Geology, 1993, 21, 45.	4.4	245
25	Episodicity in foredeep basins. Geology, 1992, 20, 915.	4.4	39
26	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
27	Amount and style of Late Cenozoic Deformation in the Liupan Shan Area, Ningxia Autonomous Region, China. Tectonics, 1991, 10, 1111-1129.	2.8	157
28	Constraints on unroofing rates in the High Himalaya, eastern Nepal. Tectonics, 1991, 10, 287-298.	2.8	32
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	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
31	Core complex geometries and regional scale flow in the lower crust. Tectonics, 1990, 9, 557-567.	2.8	295
32	Intracrustal detachment within zones of continental deformation. Geology, 1989, 17, 748.	4.4	267
33	Are systematic variations in thrust belt style related to plate boundary processes? (The western Alps) Tj ETQq1 1 0.784314 rgBT /Over	2.8	142
34	Deflection, gravity anomalies and tectonics of doubly subducted continental lithosphere: Adriatic and Ionian seas. Tectonics, 1988, 7, 875-893.	2.8	105
35	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
36	Extremal bounds on geotherms in eroding mountain belts from metamorphic pressure-temperature conditions. Geophysical Journal International, 1987, 88, 81-95.	2.4	10

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37	Evolution of the Pannonian Basin System: 2. Subsidence and thermal history. Tectonics, 1983, 2, 91-137.	2.8	158
38	Transform faulting, extension, and subduction in the Carpathian Pannonian region. Bulletin of the Geological Society of America, 1982, 93, 717.	3.3	154