Anthony R Lowry

List of Publications by Year
in descending order

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38 papers	2,445 citations	201674 27 h-index	361022 35 g-index
39 all docs	39 docs citations	39 times ranked	2171 citing authors

#	Article	IF	Citations
1	A large silent earthquake in the Guerrero seismic gap, Mexico. Geophysical Research Letters, 2003, 30, .	4.0	232
2	Transient fault slip in Guerrero, southern Mexico. Geophysical Research Letters, 2001, 28, 3753-3756.	4.0	172
3	Strength and rheology of the western U.S. Cordillera. Journal of Geophysical Research, 1995, 100, 17947-17963.	3.3	143
4	Effective elastic thickness of Africa and its relationship to other proxies for lithospheric structure and surface tectonics. Earth and Planetary Science Letters, 2009, 287, 152-167.	4.4	142
5	The role of crustal quartz in controlling Cordilleran deformation. Nature, 2011, 471, 353-357.	27.8	141
6	Dynamic elevation of the Cordillera, western United States. Journal of Geophysical Research, 2000, 105, 23371-23390.	3.3	135
7	Flexural rigidity of the Basin and Range-Colorado Plateau-Rocky Mountain transition from coherence analysis of gravity and topography. Journal of Geophysical Research, 1994, 99, 20123-20140.	3.3	115
8	On the recovery of effective elastic thickness using spectral methods: Examples from synthetic data and from the Fennoscandian Shield. Journal of Geophysical Research, 2004, 109, .	3.3	101
9	Effective elastic thickness of South America and its implications for intracontinental deformation. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	2.5	100
10	Singularity removal: A refinement of resistivity modeling techniques. Geophysics, 1989, 54, 766-774.	2.6	96
11	Crustal deformation measurements in Guerrero, Mexico. Journal of Geophysical Research, 2004, 109, .	3.3	90
12	Resonant slow fault slip in subduction zones forced by climatic load stress. Nature, 2006, 442, 802-805.	27.8	80
13	Vertical profiling of atmospheric refractivity from ground-based GPS. Radio Science, 2002, 37, 13-1-13-19.	1.6	73
14	Effective elastic thickness variations along the Andean margin and their relationship to subduction geometry. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	69
15	Density and lithospheric strength models of the Yellowstoneâ€“Snake River Plain volcanic system from gravity and heat flow data. Journal of Volcanology and Geothermal Research, 2009, 188, 108-127.	2.1	68
16	Static and dynamic support of western United States topography. Earth and Planetary Science Letters, 2014, 402, 234-246.	4.4	61
17	Interplate coupling and a recent aseismic slow slip event in the Guerrero seismic gap of the Mexican subduction zone, as deduced from GPS data inversion using a Bayesian information criterion. Physics of the Earth and Planetary Interiors, 2004, 146, 513-530.	1.9	59
18	Distributed deformation across the Rio Grande Rift, Great Plains, and Colorado Plateau. Geology, 2012, 40, 23-26.	4.4	59

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19	Moho temperature and mobility of lower crust in the western United States. Geology, 2018, 46, 219-222.	4.4	56
20	Postseismic deformation of the Andaman Islands following the 26 December, 2004 Great Sumatraâ€“Andaman earthquake. Geophysical Research Letters, 2007, 34, .	4.0	54
21	Spatial variations of the effective elastic thickness, T_e, using multitaper spectral estimation and wavelet methods: Examples from synthetic data and application to South America. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	47
22	Dynamics of active magmatic and hydrothermal systems at Taal Volcano, Philippines, from continuous GPS measurements. Journal of Geophysical Research, 2003, 108, .	3.3	45
23	Continental smokers couple mantle degassing and distinctive microbiology within continents. Earth and Planetary Science Letters, 2016, 435, 22-30.	4.4	42
24	Western US intermountain seismicity caused by changes in upper mantle flow. Nature, 2015, 524, 458-461.	27.8	41
25	Surface versus internal loading of the Tharsis rise, Mars. Journal of Geophysical Research, 2003, 108, .	3.3	31
26	Andaman Postseismic Deformation Observations: Still Slipping after All These Years?. Bulletin of the Seismological Society of America, 2012, 102, 343-351.	2.3	31
27	GPS monitoring of crustal deformation at Taal Volcano, Philippines. Journal of Volcanology and Geothermal Research, 2001, 105, 35-47.	2.1	27
28	Scientific Value of Realâ€Time Global Positioning System Data. Eos, 2011, 92, 125-126.	0.1	24
29	USArray Imaging of Continental Crust in the Conterminous United States. Tectonics, 2017, 36, 2882-2902.	2.8	24
30	Use of GPS for estimation of bending angles of radio waves at low elevations. Radio Science, 2001, 36, 473-482.	1.6	22
31	Geotherms from the temperature-depthâ€“constrained solutions of 1-D steady-state heat-flow equation. , 2016, 12, 1187-1197.		21
32	Fault frictional parameters and material properties revealed by slow slip events at Kilauea volcano, Hawaiâ€˜i. Geophysical Research Letters, 2013, 40, 6059-6063.	4.0	18
33	Preliminary Results from a GPS Geodetic Network in the Southern Illinois Basin. Seismological Research Letters, 2002, 73, 762-775.	1.9	10
34	Implications of transient deformation in the northern Basin and Range, western United States. Journal of Geophysical Research: Solid Earth, 2014, 119, 4393-4413.	3.4	7
35	Crustal Composition and Moho Variations of the Central and Eastern United States: Improving Resolution and Geologic Interpretation of EarthScope USArray Seismic Images Using Gravity. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018537.	3.4	7
36	MOHO TEMPERATURE AND COMPOSITIONAL CONTROLS ON LITHOSPHERIC BENDING STRENGTH IN THE WESTERN UNITED STATES. , 2017, , .		1

#	Article	IF	Citations
37	High-precision downward continuation of potential fields algorithm utilizing adaptive damping coefficient of generalized minimal residuals. Applied Geophysics, 2020, 17, 672-686.	0.6	1
38	Wet roots of high elevation in the western United States. Earth and Planetary Science Letters, 2022, 584, 117483.	4.4	0