

# 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	Wet roots of high elevation in the western United States. <i>Earth and Planetary Science Letters</i> , 2022, 584, 117483.	4.4	0
2	Crustal Composition and Moho Variations of the Central and Eastern United States: Improving Resolution and Geologic Interpretation of EarthScope USArray Seismic Images Using Gravity. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018537.	3.4	7
3	High-precision downward continuation of potential fields algorithm utilizing adaptive damping coefficient of generalized minimal residuals. <i>Applied Geophysics</i> , 2020, 17, 672-686.	0.6	1
4	Moho temperature and mobility of lower crust in the western United States. <i>Geology</i> , 2018, 46, 219-222.	4.4	56
5	USArray Imaging of Continental Crust in the Conterminous United States. <i>Tectonics</i> , 2017, 36, 2882-2902.	2.8	24
6	MOHO TEMPERATURE AND COMPOSITIONAL CONTROLS ON LITHOSPHERIC BENDING STRENGTH IN THE WESTERN UNITED STATES. , 2017, , .		1
7	Geotherms from the temperature-depthâ€“constrained solutions of 1-D steady-state heat-flow equation. , 2016, 12, 1187-1197.		21
8	Continental smokers couple mantle degassing and distinctive microbiology within continents. <i>Earth and Planetary Science Letters</i> , 2016, 435, 22-30.	4.4	42
9	Western US intermountain seismicity caused by changes in upper mantle flow. <i>Nature</i> , 2015, 524, 458-461.	27.8	41
10	Implications of transient deformation in the northern Basin and Range, western United States. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 4393-4413.	3.4	7
11	Static and dynamic support of western United States topography. <i>Earth and Planetary Science Letters</i> , 2014, 402, 234-246.	4.4	61
12	Fault frictional parameters and material properties revealed by slow slip events at Kilauea volcano, Hawaiâ€“i. <i>Geophysical Research Letters</i> , 2013, 40, 6059-6063.	4.0	18
13	Distributed deformation across the Rio Grande Rift, Great Plains, and Colorado Plateau. <i>Geology</i> , 2012, 40, 23-26.	4.4	59
14	Andaman Postseismic Deformation Observations: Still Slipping after All These Years?. <i>Bulletin of the Seismological Society of America</i> , 2012, 102, 343-351.	2.3	31
15	Scientific Value of Realâ€“Time Global Positioning System Data. <i>Eos</i> , 2011, 92, 125-126.	0.1	24
16	The role of crustal quartz in controlling Cordilleran deformation. <i>Nature</i> , 2011, 471, 353-357.	27.8	141
17	Density and lithospheric strength models of the Yellowstoneâ€“Snake River Plain volcanic system from gravity and heat flow data. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 188, 108-127.	2.1	68
18	Effective elastic thickness of Africa and its relationship to other proxies for lithospheric structure and surface tectonics. <i>Earth and Planetary Science Letters</i> , 2009, 287, 152-167.	4.4	142

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19	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. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	47
20	Effective elastic thickness variations along the Andean margin and their relationship to subduction geometry. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	69
21	Effective elastic thickness of South America and its implications for intracontinental deformation. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	2.5	100
22	Postseismic deformation of the Andaman Islands following the 26 December, 2004 Great Sumatra–Andaman earthquake. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	54
23	Resonant slow fault slip in subduction zones forced by climatic load stress. <i>Nature</i> , 2006, 442, 802-805.	27.8	80
24	On the recovery of effective elastic thickness using spectral methods: Examples from synthetic data and from the Fennoscandian Shield. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	101
25	Crustal deformation measurements in Guerrero, Mexico. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	90
26	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. <i>Physics of the Earth and Planetary Interiors</i> , 2004, 146, 513-530.	1.9	59
27	Dynamics of active magmatic and hydrothermal systems at Taal Volcano, Philippines, from continuous GPS measurements. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	45
28	A large silent earthquake in the Guerrero seismic gap, Mexico. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	232
29	Surface versus internal loading of the Tharsis rise, Mars. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	31
30	Preliminary Results from a GPS Geodetic Network in the Southern Illinois Basin. <i>Seismological Research Letters</i> , 2002, 73, 762-775.	1.9	10
31	Vertical profiling of atmospheric refractivity from ground-based GPS. <i>Radio Science</i> , 2002, 37, 13-1-13-19.	1.6	73
32	Use of GPS for estimation of bending angles of radio waves at low elevations. <i>Radio Science</i> , 2001, 36, 473-482.	1.6	22
33	Transient fault slip in Guerrero, southern Mexico. <i>Geophysical Research Letters</i> , 2001, 28, 3753-3756.	4.0	172
34	GPS monitoring of crustal deformation at Taal Volcano, Philippines. <i>Journal of Volcanology and Geothermal Research</i> , 2001, 105, 35-47.	2.1	27
35	Dynamic elevation of the Cordillera, western United States. <i>Journal of Geophysical Research</i> , 2000, 105, 23371-23390.	3.3	135
36	Strength and rheology of the western U.S. Cordillera. <i>Journal of Geophysical Research</i> , 1995, 100, 17947-17963.	3.3	143

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37	Flexural rigidity of the Basin and Range-Colorado Plateau-Rocky Mountain transition from coherence analysis of gravity and topography. <i>Journal of Geophysical Research</i> , 1994, 99, 20123-20140.	3.3	115
38	Singularity removal: A refinement of resistivity modeling techniques. <i>Geophysics</i> , 1989, 54, 766-774.	2.6	96