Rolando Armijo

List of Publications by Year
in descending order

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71	10,560	53794 45	82547 72
papers	citations	h-index	g-index

73	73	73	5966
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structure and evolution of the Himalayaâ€“Tibet orogenic belt. Nature, 1984, 307, 17-22.	27.8	942
2	Quaternary extension in southern Tibet: Field observations and tectonic implications. Journal of Geophysical Research, 1986, 91, 13803-13872.	3.3	751
3	On the mechanics of the collision between India and Asia. Geological Society Special Publication, 1986, 19, 113-157.	1.3	716
4	Quaternary evolution of the Corinth Rift and its implications for the Late Cenozoic evolution of the Aegean. Geophysical Journal International, 1996, 126, 11-53.	2.4	600
5	Westward propagation of the North Anatolian fault into the northern Aegean: Timing and kinematics. Geology, 1999, 27, 267.	4.4	541
6	Late Cenozoic rightâ€lateral strikeâ€slip faulting in southern Tibet. Journal of Geophysical Research, 1989, 94, 2787-2838.	3.3	481
7	The 2010 M _w 8.8 Maule Megathrust Earthquake of Central Chile, Monitored by GPS. Science, 2011, 332, 1417-1421.	12.6	345
8	The active Main Marmara Fault. Earth and Planetary Science Letters, 2001, 192, 595-616.	4.4	336
9	Asymmetric slip partitioning in the Sea of Marmara pull-apart: a clue to propagation processes of the North Anatolian Fault?. Terra Nova, 2002, 14, 80-86.	2.1	288
10	The Surface Rupture and Slip Distribution of the 17 August 1999 Izmit Earthquake (M 7.4), North Anatolian Fault. Bulletin of the Seismological Society of America, 2002, 92, 43-60.	2.3	281
11	A microseismic study in the western part of the Gulf of Corinth (Greece): implications for large-scale normal faulting mechanisms. Geophysical Journal International, 1996, 126, 663-688.	2.4	254
12	Magnitude of Late Quaternary Left-Lateral Displacements Along the North Edge of Tibet. Science, 1989, 246, 1285-1289.	12.6	253
13	The Tibetan side of the Indiaâ€“Eurasia collision. Nature, 1981, 294, 405-410.	27.8	248
14	Seismic hazard in the Marmara Sea region following the 17 August 1999 Izmit earthquake. Nature, 2000, 404, 269-273.	27.8	238
15	Morphology, displacement, and slip rates along the North Anatolian Fault, Turkey. Journal of Geophysical Research, 2002, 107, ETG 9-1-ETG 9-33.	3.3	226
16	Submarine fault scarps in the Sea of Marmara pull-apart (North Anatolian Fault): Implications for seismic hazard in Istanbul. Geochemistry, Geophysics, Geosystems, 2005, 6, .	2.5	226
17	Coupled tectonic evolution of Andean orogeny and global climate. Earth-Science Reviews, 2015, 143, 1-35.	9.1	187
18	The inverse problem in microtectonics and the separation of tectonic phases. Tectonophysics, 1982, 82, 145-160.	2.2	181

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19	Change from Late Tertiary compression to Quaternary extension in southern Tibet during the Indiaâ€Asia Collision. Tectonics, 1987, 6, 275-304.	2.8	174
20	1 Ma East Pacific Rise oceanic crust and uppermost mantle exposed by rifting in Hess Deep (equatorial) Tj ETQq0 0 0 rgBT /Overlock 10	4.4	172
21	Field evidence for active normal faulting in Tibet. Nature, 1981, 294, 410-414.	27.8	152
22	Active faulting in northern Chile: ramp stacking and lateral decoupling along a subduction plate boundary?. Earth and Planetary Science Letters, 1990, 98, 40-61.	4.4	146
23	The mechanical interaction between the propagating North Anatolian Fault and the back-arc extension in the Aegean. Earth and Planetary Science Letters, 2004, 224, 347-362.	4.4	146
24	Bookshelf faulting and horizontal block rotations between overlapping rifts in southern Afar. Geophysical Research Letters, 1990, 17, 1-4.	4.0	144
25	Crustal deformation and fault slip during the seismic cycle in the North Chile subduction zone, from GPS and InSAR observations. Geophysical Journal International, 2004, 158, 695-711.	2.4	139
26	Andean structural control on interseismic coupling in the North Chile subduction zone. Nature Geoscience, 2013, 6, 462-467.	12.9	138
27	A twoâ€step process for the reflooding of the<scp>M</scp>editerranean after the<scp>M</scp>essinian<scp>S</scp>alinity<scp>C</scp>risis. Basin Research, 2012, 24, 125-153.	2.7	134
28	Slip partitioning in the Sea of Marmara pull-apart determined from GPS velocity vectors. Geophysical Journal International, 2003, 154, 1-7.	2.4	133
29	Petrology of the East Pacific Rise crust and upper mantle exposed in Hess deep (eastern equatorial) Tj ETQq1 1 0.784314 rgBT /Overlock	3.3	123
30	Coseismic and early post-seismic slip associated with the 1999 Izmit earthquake (Turkey), from SAR interferometry and tectonic field observations. Geophysical Journal International, 2003, 155, 93-110.	2.4	123
31	Long-term elasticity in the continental lithosphere; modelling the Aden Ridge propagation and the Anatolian extrusion process. Geophysical Journal International, 2003, 153, 111-132.	2.4	120
32	Post-glacial slip history of the Sparta fault (Greece) determined by36Cl cosmogenic dating: Evidence for non-periodic earthquakes. Geophysical Research Letters, 2002, 29, 87-1-87-4.	4.0	114
33	Surface Rupture and Slip Distribution of the 12 November 1999 Duzce Earthquake (M 7.1), North Anatolian Fault, Bolu, Turkey. Bulletin of the Seismological Society of America, 2002, 92, 61-66.	2.3	110
34	The MW=8.1 Antofagasta (North Chile) Earthquake of July 30, 1995: First results from teleseismic and geodetic data. Geophysical Research Letters, 1996, 23, 917-920.	4.0	101
35	Fault interactions in the Sea of Marmara pull-apart (North Anatolian Fault): earthquake clustering and propagating earthquake sequences. Geophysical Journal International, 0, 171, 1185-1197.	2.4	101
36	Late Quaternary co-seismic sedimentation in the Sea of Marmara's deep basins. Sedimentary Geology, 2007, 199, 65-89.	2.1	92

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37	Dyke complex of the East Pacific Rise exposed in the walls of Hess Deep and the structure of the upper oceanic crust. Earth and Planetary Science Letters, 1992, 111, 109-121.	4.4	88
38	Linear elastic fracture mechanics explains the past and present evolution of the Aegean. Earth and Planetary Science Letters, 2004, 217, 85-95.	4.4	80
39	Asperities and barriers on the seismogenic zone in North Chile: state-of-the-art after the 2007 Mw 7.7 Tocopilla earthquake inferred by GPS and InSAR data. Geophysical Journal International, 2010, 183, 390-406.	2.4	73
40	The 1995 Grevena (northern Greece) Earthquake: Fault model constrained with tectonic observations and SAR interferometry. Geophysical Research Letters, 1996, 23, 2677-2680.	4.0	69
41	Motion on the Kaparelli fault (Greece) prior to the 1981 earthquake sequence determined from 36Cl cosmogenic dating. Terra Nova, 2003, 15, 118-124.	2.1	67
42	The West Andean Thrust, the San RamÃ³n Fault, and the seismic hazard for Santiago, Chile. Tectonics, 2010, 29, n/a-n/a.	2.8	64
43	The Sinai triple junction revisited. Tectonophysics, 1987, 141, 181-190.	2.2	59
44	Pito and Orongo fracture zones: the northern and southern boundaries of the Easter microplate (southeast Pacific). Earth and Planetary Science Letters, 1988, 89, 363-374.	4.4	54
45	Probing large intraplate earthquakes at the west flank of the Andes. Geology, 2014, 42, 1083-1086.	4.4	54
46	A possible normal-fault rupture for the 464 BC Sparta earthquake. Nature, 1991, 351, 137-139.	27.8	51
47	Long-term evolution of the North Anatolian Fault: new constraints from its eastern termination. Geological Society Special Publication, 2009, 311, 133-154.	1.3	41
48	The Messinian Salinity Crisis in the Dardanelles region: Chronostratigraphic constraints. Palaeogeography, Palaeoclimatology, Palaeoecology, 2009, 278, 24-39.	2.3	40
49	Kinematics of the Sinai triple junction and a two-phase model of Arabia-Africa rifting. Geological Society Special Publication, 1987, 28, 559-573.	1.3	39
50	Petrology of the Easter microplate region in the South Pacific. Journal of Volcanology and Geothermal Research, 1996, 72, 259-289.	2.1	37
51	Revisiting the Crustal Structure and Kinematics of the Central Andes at 33.5Â°S: Implications for the Mechanics of Andean Mountain Building. Tectonics, 2018, 37, 1347-1375.	2.8	31
52	Kinematics of the active West Andean fold-and-thrust belt (central Chile): Structure and long-term shortening rate. Tectonics, 2017, 36, 287-303.	2.8	26
53	The region of the Strandja Sill (North Turkey) and the Messinian events. Marine and Petroleum Geology, 2015, 66, 149-164.	3.3	25
54	Lithospheric flexure and rheology determined by climate cycle markers in the Corinth Rift. Scientific Reports, 2019, 9, 4260.	3.3	24

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55	The 1995 Kozani-Grevena (northern Greece) earthquake revisited: an improved faulting model from synthetic aperture radar interferometry. Geophysical Journal International, 2004, 157, 727-736.	2.4	23
56	Normal Faulting during the August 1989 Earthquakes in Central Afar: Sequential Triggering and Propagation of Rupture along the Dobi Graben. Bulletin of the Seismological Society of America, 2011, 101, 994-1023.	2.3	23
57	How do sea-level curves influence modeled marine terrace sequences?. Quaternary Science Reviews, 2020, 229, 106132.	3.0	22
58	Westward propagation of North Anatolian fault into the northern Aegean:Timing and kinematics: Comment and Reply. Geology, 2000, 28, 188.	4.4	15
59	A new crustal fault formed the modern Corinth Rift. Earth-Science Reviews, 2019, 199, 102919.	9.1	15
60	Geometry of Flexural Uplift by Continental Rifting in Corinth, Greece. Tectonics, 2020, 39, e2019TC005685.	2.8	15
61	Results from combining tectonic observations and SAR interferometry for the 1995 Grevena earthquake: A summary. Journal of Geodynamics, 1998, 26, 255-259.	1.6	12
62	Active faulting in SW Bulgaria: possible surface rupture of the 1904 Struma earthquakes. Geophysical Journal International, 2002, 148, 246-255.	2.4	11
63	Title is missing!. Marine Geophysical Researches, 2002, 23, 1-12.	1.2	8
64	Andean growth and monsoon winds drive landscape evolution at SW margin of South America. Earth and Planetary Science Letters, 2015, 414, 87-99.	4.4	8
65	Was the TrÃ©varesse thrust the source of the 1909 Lambesc (Provence, France) earthquake? Historical and geomorphic evidence. Comptes Rendus De L'AcadÃ©mie Des Sciences Earth & Planetary Sciences SÃ©rie II, Sciences De La Terre Et Des PlanÃ¨tes =, 2001, 333, 571-581.	0.2	6
66	From plate tectonics to the design of the Dul Hasti hydroelectric project in Kashmir (India). Engineering Geology, 1994, 36, 211-241.	6.3	3
67	Erratum to â€œfault re-activation, stress interaction and rupture propagation of the 1981 corinth earthquake sequenceâ€•[Earth Planet. Sci. Lett. 142 (1996) 573â€“585]. Earth and Planetary Science Letters, 1996, 144, 611-613.	4.4	3
68	Coulomb interactions and the 17 August 1999 Izmit, Turkey earthquake. Comptes Rendus De L'AcadÃ©mie Des Sciences Earth & Planetary Sciences SÃ©rie II, Sciences De La Terre Et Des PlanÃ¨tes =, 2001, 333, 557-569.	0.2	3
69	Compressional deformation north of the Easter microplate: a manned submersible and seafloor gravity investigation. Geophysical Journal International, 2006, 164, 359-369.	2.4	3
70	Reply to the comment by R. A. Astini and F. M. DÃ¡vila on â€œThe West Andean Thrust, the San RamÃ³n Fault, and the seismic hazard for Santiago, Chileâ€• Tectonics, 2010, 29, n/a-n/a.	2.8	2
71	Westward propagation of North Anatolian fault into the northern Aegean:Timing and kinematics: Comment and Reply. Geology, 2000, 28, 187-189.	4.4	2