Richard W Allmendinger

List of Publications by Year
in descending order

77	8,891	66234	82410
papers	citations	42 h-index	72 g-index

79	79	79	4985
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	GMDE: Extracting quantitative information from geologic maps. , 2020, 16, 1495-1507.		8
2	Structural data collection with mobile devices: Accuracy, redundancy, and best practices. Journal of Structural Geology, 2017, 102, 98-112.	1.0	59
3	Coseismic extension from surface cracks reopened by the 2014 Pisagua, northern Chile, earthquake sequence. Geology, 2016, 44, 387-390.	2.0	12
4	Slip distribution of the 2014 M_wâ€‰=â€‰8.1 Pisagua, northern Chile, earthquake sequence estimated from coseismic foreâ€arc surface cracks. Geophysical Research Letters, 2016, 43, 10,134.	1.5	5
5	Upper plate reverse fault reactivation and the unclamping of the megathrust during the 2014 northern Chile earthquake sequence. Geology, 2015, 43, 671-674.	2.0	44
6	Constructing forearc architecture over megathrust seismic cycles: Geological snapshots from the Maule earthquake region, Chile. Bulletin of the Geological Society of America, 2015, 127, 464-479.	1.6	20
7	The Argentine Precordillera: A foreland thrust belt proximal to the subducted plate. , 2014, 10, 1203-1218.		58
8	Spherical projections with OSXStereonet. Computers and Geosciences, 2013, 51, 193-205.	2.0	506
9	Permanent foreâ€arc extension and seismic segmentation: Insights from the 2010 Maule earthquake, Chile. Journal of Geophysical Research: Solid Earth, 2013, 118, 724-739.	1.4	57
10	Stratigraphic uncertainty and errors in shortening from balanced sections in the North American Cordillera. Bulletin of the Geological Society of America, 2013, 125, 1569-1579.	1.6	22
11	Splay fault slip during the Mw 8.8 2010 Maule Chile earthquake: COMMENT. Geology, 2013, 41, e309-e309.	2.0	3
12	Permanent deformation caused by subduction earthquakes in northern Chile. Nature Geoscience, 2013, 6, 492-496.	5.4	45
13	Trishear<subtitle>A Review of Kinematics, Mechanics, and Applications</subtitle>. , 2011, , .		13
14	Assessing uncertainties in balanced cross sections. Journal of Structural Geology, 2011, 33, 458-467.	1.0	70
15	Invited review paper: Neogene to Quaternary tectonics of the coastal Cordillera, northern Chile. Tectonophysics, 2010, 495, 93-110.	0.9	110
16	Normal and reverse faulting driven by the subduction zone earthquake cycle in the northern Chilean fore arc. Tectonics, 2010, 29, n/a-n/a.	1.3	36
17	From decades to epochs: Spanning the gap between geodesy and structural geology of active mountain belts. Journal of Structural Geology, 2009, 31, 1409-1422.	1.0	36
18	SSPX: A program to compute strain from displacement/velocity data. Computers and Geosciences, 2009, 35, 1343-1357.	2.0	124

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19	Surface cracks record long-term seismic segmentation of the Andean margin. Geology, 2009, 37, 23-26.	2.0	42
20	Crack formation on top of propagating reverse faults of the Chuculay Fault System, northern Chile: Insights from field data and numerical modelling. Journal of Structural Geology, 2008, 30, 791-808.	1.0	27
21	Strain and rotation rate from GPS in Tibet, Anatolia, and the Altiplano. Tectonics, 2007, 26, n/a-n/a.	1.3	144
22	Young displacements on the Atacama Fault System, northern Chile from field observations and cosmogenic21Ne concentrations. Tectonics, 2006, 25, n/a-n/a.	1.3	69
23	Influence of mechanical stratigraphy and initial stress state on the formation of two fault propagation folds. Journal of Structural Geology, 2005, 27, 1954-1972.	1.0	43
24	Pervasive cracking of the northern Chilean Coastal Cordillera: New evidence for forearc extension. Geology, 2005, 33, 973.	2.0	45
25	Development of the Colombian foreland-basin system as a consequence of diachronous exhumation of the northern Andes. Bulletin of the Geological Society of America, 2005, 117, 1272.	1.6	109
26	Syntectonic Cenozoic sedimentation in the northern middle Magdalena Valley Basin of Colombia and implications for exhumation of the Northern Andes. Bulletin of the Geological Society of America, 2005, 117, 547.	1.6	96
27	Bending the Bolivian orocline in real time. Geology, 2005, 33, 905.	2.0	73
28	Trench-parallel shortening in the Northern Chilean Forearc: Tectonic and climatic implications. Bulletin of the Geological Society of America, 2005, 117, 89.	1.6	84
29	True three-dimensional trishear: A kinematic model for strike-slip and oblique-slip deformation. Bulletin of the Geological Society of America, 2004, 116, 938.	1.6	26
30	Mechanical models of fault propagation folds and comparison to the trishear kinematic model. Journal of Structural Geology, 2003, 25, 1-18.	1.0	68
31	Controls on architecture of the Late Cretaceous to Cenozoic southern Middle Magdalena Valley Basin, Colombia. Bulletin of the Geological Society of America, 2003, 115, 131-147.	1.6	104
32	Backlimb trishear: a kinematic model for curved folds developed over angular fault bends. Journal of Structural Geology, 2002, 24, 289-295.	1.0	29
33	Pseudo 3-D modeling of trishear fault-propagation folding. Journal of Structural Geology, 2001, 23, 1883-1899.	1.0	52
34	Velocity field for the trishear model. Journal of Structural Geology, 2000, 22, 1009-1014.	1.0	129
35	Estimation of fault propagation distance from fold shape: Implications for earthquake hazard assessment. Geology, 2000, 28, 1099.	2.0	93
36	The footwall ramp of the Subandean decollement, northernmost Argentina, from extended correlation of seismic reflection data. Tectonophysics, 2000, 321, 37-55.	0.9	38

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37	Inversion tectonics and the evolution of the High Atlas Mountains, Morocco, based on a geological-geophysical transect. Tectonics, 1999, 18, 163-184.	1.3	204
38	Inverse and forward numerical modeling of trishear fault-propagation folds. Tectonics, 1998, 17, 640-656.	1.3	433
39	THE EVOLUTION OF THE ALTIPLANO-PUNA PLATEAU OF THE CENTRAL ANDES. Annual Review of Earth and Planetary Sciences, 1997, 25, 139-174.	4.6	762
40	Growth stratal records of instantaneous and progressive limb rotation in the Precordillera thrust belt and Bermejo basin, Argentina. Tectonics, 1996, 15, 1065-1083.	1.3	125
41	Fault spacing in the El Teniente Mine, central Chile: Evidence for nonfractal fault geometry. Journal of Geophysical Research, 1996, 101, 13633-13653.	3.3	23
42	Is the Sevier Desert reflection of west-central Utah a normal fault?: Comment and Reply. Geology, 1995, 23, 669.	2.0	14
43	Late Cenozoic tectonic evolution of the Puna Plateau and adjacent foreland, northwestern Argentine Andes. Journal of South American Earth Sciences, 1994, 7, 179-207.	0.6	190
44	Late cenozoic deformation in the Central Andes: fault kinematics from the northern Puna, northwestern Argentina and southwestern Bolivia. Journal of South American Earth Sciences, 1994, 7, 209-228.	0.6	111
45	Finite strain and rotation from fault-slip data. Journal of Structural Geology, 1993, 15, 771-784.	1.0	58
46	Extensional tectonics, Cretaceous Andes, northern Chile (27Â°S). Bulletin of the Geological Society of America, 1993, 105, 1462-1477.	1.6	56
47	Amount of extension on "small" faults: An example from the Viking graben. Geology, 1992, 20, 47.	2.0	231
48	Andean reactivation of the Cretaceous Salta rift, northwestern Argentina. Journal of South American Earth Sciences, 1991, 4, 351-372.	0.6	161
49	Jurassic normal and strike-slip faults at Crater Island, northwestern Utah. Bulletin of the Geological Society of America, 1991, 103, 1239-1251.	1.6	8
50	Estimates of strain due to brittle faulting: sampling of fault populations. Journal of Structural Geology, 1991, 13, 735-738.	1.0	307
51	Late Cretaceous extension in the hinterland of the Sevier thrust belt, northwestern Utah and southern Idaho. Geology, 1990, 18, 929.	2.0	37
52	An early history of pure shear in the upper plate of the raft river metamorphic core complex: black pine mountains, southern Idaho. Journal of Structural Geology, 1990, 12, 851-867.	1.0	16
53	Kinematic analysis of fault-slip data. Journal of Structural Geology, 1990, 12, 973-986.	1.0	782
54	Overview of the COCORP 40Â°N Transect, western United States: The fabric of an orogenic belt. Bulletin of the Geological Society of America, 1987, 98, 308.	1.6	171

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55	Deep seismic reflection characteristics of the continental crust. Geology, 1987, 15, 304.	2.0	112
56	Crustal structure of eastern Nevada from COCORP deep seismic reflection data. Bulletin of the Geological Society of America, 1987, 99, 833.	1.6	89
57	Tectonic heredity and the layered lower crust in the Basin and Range Province, western United States. Geological Society Special Publication, 1987, 28, 223-246.	0.8	28
58	Crustal structure of north-central Nevada: Results from COCORP deep seismic profiling. Bulletin of the Geological Society of America, 1987, 98, 330.	1.6	34
59	COCORP deep seismic reflection traverses of the U.S. Cordillera. Geophysical Journal International, 1987, 89, 99-104.	1.0	10
60	Paleozoic terranes of the central Argentineâ€Chilean Andes. Tectonics, 1986, 5, 855-880.	1.3	443
61	Tectonic development, southeastern border of the Puna Plateau, northwestern Argentine Andes. Bulletin of the Geological Society of America, 1986, 97, 1070.	1.6	137
62	Phanerozoic tectonics of the basin and range: Colorado plateau transition from COCORP data and geologic data: A review. Geodynamic Series, 1986, , 257-267.	0.1	33
63	Andean tectonics related to geometry of subducted Nazca plate: Discussion and reply. Bulletin of the Geological Society of America, 1984, 95, 880.	1.6	3
64	Mesozoic structure of the Newfoundland Mountains, Utah: Horizontal shortening and subsequent extension in the hinterland of the Sevier belt. Bulletin of the Geological Society of America, 1984, 95, 1280.	1.6	21
65	Andean tectonics related to geometry of subducted Nazca plate. Bulletin of the Geological Society of America, 1983, 94, 341.	1.6	829
66	Paleogeography and Andean structural geometry, northwest Argentina. Tectonics, 1983, 2, 1-16.	1.3	269
67	Cenozoic and Mesozoic structure of the eastern Basin and Range province, Utah, from COCORP seismic-reflection data. Geology, 1983, 11, 532.	2.0	270
68	Stratigraphic variation and low-angle faulting in the North Hansel Mountains and Samaria Mountain, southern Idaho. Memoir of the Geological Society of America, 1983, , 149-164.	0.5	5
69	Comment and Reply on â€˜Mesozoic evolution, hinterland of the Sevier orogenic beltâ€™. Geology, 1982, 10, 443.	2.0	0
70	Comment and Reply on â€˜Mesozoic evolution, hinterland of the Sevier orogenic beltâ€™. Geology, 1982, 10, 5.	2.0	3
71	Analysis of microstructures in the meade plate of the Idaho-Wyoming foreland thrust belt, U.S.A.. Tectonophysics, 1982, 85, 221-251.	0.9	31
72	COCORP profiling across the Rocky Mountain Front in southern Wyoming, Part 1: Laramide structure. Bulletin of the Geological Society of America, 1982, 93, 1242.	1.6	47

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73	COCORP profiling across the Rocky Mountain Front in southern Wyoming, Part 2: Precambrian basement structure and its influence on Laramide deformation. Bulletin of the Geological Society of America, 1982, 93, 1253.	1.6	63
74	Mesozoic evolution, hinterland of the Sevier orogenic belt. Geology, 1981, 9, 308.	2.0	47
75	Structural Geometry of Meade Thrust Plate in Northern Blackfoot Mountains, Southeastern Idaho. AAPG Bulletin, 1981, 65, .	0.7	4
76	The Galapagos Rift at 86Â°W: 1. Regional morphological and structural analysis. Journal of Geophysical Research, 1979, 84, 5379-5389.	3.3	37
77	Fold and thrust tectonics of the western United States exclusive of the accreted terranes. , 0, , 583-608.		31