

Randall A Marrett

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

4,521
citations

186254

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289230

40
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46
docs citations

46
times ranked

2879
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Kinematic analysis of fault-slip data. <i>Journal of Structural Geology</i> , 1990, 12, 973-986. | 2.3 | 782 |
| 2 | Characteristics and origins of coal cleat: A review. <i>International Journal of Coal Geology</i> , 1998, 35, 175-207. | 5.0 | 649 |
| 3 | Estimates of strain due to brittle faulting: sampling of fault populations. <i>Journal of Structural Geology</i> , 1991, 13, 735-738. | 2.3 | 307 |
| 4 | A scale-independent approach to fracture intensity and average spacing measurement. <i>AAPG Bulletin</i> , 2006, 90, 193-208. | 1.5 | 290 |
| 5 | Amount of extension on "small" faults: An example from the Viking graben. <i>Geology</i> , 1992, 20, 47. | 4.4 | 231 |
| 6 | Late Cenozoic tectonic evolution of the Puna Plateau and adjacent foreland, northwestern Argentine Andes. <i>Journal of South American Earth Sciences</i> , 1994, 7, 179-207. | 1.4 | 190 |
| 7 | Are fault growth and linkage models consistent with power-law distributions of fault lengths?. <i>Journal of Structural Geology</i> , 1996, 18, 281-293. | 2.3 | 168 |
| 8 | Extent of power-law scaling for natural fractures in rock. <i>Geology</i> , 1999, 27, 799. | 4.4 | 158 |
| 9 | Fracture-aperture size-frequency, spatial distribution, and growth processes in strata-bounded and non-strata-bounded fractures, Cambrian Mesn Group, NW Argentina. <i>Journal of Structural Geology</i> , 2013, 54, 54-71. | 2.3 | 135 |
| 10 | Aggregate properties of fracture populations. <i>Journal of Structural Geology</i> , 1996, 18, 169-178. | 2.3 | 125 |
| 11 | Aperture-size scaling variations in a low-strain opening-mode fracture set, Cozzette Sandstone, Colorado. <i>Journal of Structural Geology</i> , 2009, 31, 707-718. | 2.3 | 109 |
| 12 | Strain and stress. <i>Journal of Structural Geology</i> , 1999, 21, 1057-1063. | 2.3 | 105 |
| 13 | Response of intracontinental deformation in the central Andes to late Cenozoic reorganization of South American Plate motions. <i>Tectonics</i> , 2000, 19, 452-467. | 2.8 | 104 |
| 14 | A universal power-law scaling exponent for fracture apertures in sandstones. <i>Bulletin of the Geological Society of America</i> , 2014, 126, 1340-1362. | 3.3 | 103 |
| 15 | Tectnica de la Sierra Madre Oriental, Mxico. <i>Boletín De La Sociedad Geologica Mexicana</i> , 2000, 53, 1-26. | 0.3 | 100 |
| 16 | Prediction of macrofracture properties using microfracture information, Mesaverde Group sandstones, San Juan basin, New Mexico. <i>Journal of Structural Geology</i> , 2000, 22, 571-588. | 2.3 | 88 |
| 17 | Why dikes?. <i>Geology</i> , 1990, 18, 231. | 4.4 | 75 |
| 18 | Correlation analysis of fracture arrangement in space. <i>Journal of Structural Geology</i> , 2018, 108, 16-33. | 2.3 | 71 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Quantifying diagenetic and stratigraphic controls on fracture intensity in platform carbonates: An example from the Sierra Madre Oriental, northeast Mexico. <i>Journal of Structural Geology</i> , 2010, 32, 1943-1959. | 2.3 | 69 |
| 20 | Fracture porosity creation and persistence in a basement-involved Laramide fold, Upper Cretaceous Frontier Formation, Green River Basin, USA. <i>Geological Magazine</i> , 2016, 153, 887-910. | 1.5 | 58 |
| 21 | Kinematic evolution of fault ramps and its role in development of landslides and lakes in the northwestern Argentine Andes. <i>Geology</i> , 1999, 27, 307. | 4.4 | 52 |
| 22 | The relations between faulting and mafic magmatism in the Altiplano-Puna plateau (central Andes). <i>Earth and Planetary Science Letters</i> , 1992, 112, 53-59. | 4.4 | 50 |
| 23 | Microfracture spacing distributions and the evolution of fracture patterns in sandstones. <i>Journal of Structural Geology</i> , 2018, 108, 66-79. | 2.3 | 50 |
| 24 | Quantifying opening-mode fracture spatial organization in horizontal wellbore image logs, core and outcrop: Application to Upper Cretaceous Frontier Formation tight gas sandstones, USA. <i>Journal of Structural Geology</i> , 2018, 108, 137-156. | 2.3 | 47 |
| 25 | New directions in fracture characterization. <i>The Leading Edge</i> , 2000, 19, 704-711. | 0.7 | 43 |
| 26 | Late Miocene–early Pliocene onset of N–S extension along the southern margin of the Central Andean Puna Plateau: Evidence from magmatic, geochronological and structural observations. <i>Tectonophysics</i> , 2010, 494, 48-63. | 2.2 | 42 |
| 27 | Predicting and characterizing fractures in dolostone reservoirs: using the link between diagenesis and fracturing. <i>Geological Society Special Publication</i> , 2004, 235, 177-192. | 1.3 | 39 |
| 28 | Fracturing and fluid flow in a sub-dolomitic sandstone; or, a leak in the basement. <i>Journal of the Geological Society</i> , 2015, 172, 428-442. | 2.1 | 32 |
| 29 | Microfractures in bed-parallel veins (beef) as predictors of vertical macrofractures in shale: Vaca Muerta Formation, Agrio Fold-and-Thrust Belt, Argentina. <i>Journal of South American Earth Sciences</i> , 2017, 79, 152-169. | 1.4 | 28 |
| 30 | Effects of diagenesis (cement precipitation) during fracture opening on fracture aperture-size scaling in carbonate rocks. <i>Geological Society Special Publication</i> , 2012, 370, 187-206. | 1.3 | 27 |
| 31 | Fracture size, frequency, and strain in the Cambrian Eriboll Formation sandstones, NW Scotland. <i>Scottish Journal of Geology</i> , 2011, 47, 45-56. | 0.1 | 26 |
| 32 | The nature and origins of decametre-scale porosity in Ordovician carbonate rocks, Halahatang oilfield, Tarim Basin, China. <i>Journal of the Geological Society</i> , 2020, 177, 1074-1091. | 2.1 | 25 |
| 33 | Geometric analysis of hybrid fault-propagation/detachment folds. <i>Journal of Structural Geology</i> , 1997, 19, 243-248. | 2.3 | 23 |
| 34 | Determining brittle extension and shear strain using fault-length and displacement systematics: Part I: Theory. <i>Journal of Structural Geology</i> , 2010, 32, 1960-1977. | 2.3 | 19 |
| 35 | Strain and stress: Reply. <i>Journal of Structural Geology</i> , 2000, 22, 1369-1378. | 2.3 | 18 |
| 36 | Determining brittle extension and shear strain using fault length and displacement systematics: Part II: Data evaluation and test of the theory. <i>Journal of Structural Geology</i> , 2010, 32, 1978-1995. | 2.3 | 18 |

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|----|---|-----|-----------|
| 37 | Anisotropy and beyond: Geologic perspectives on geophysical prospecting for natural fractures. The Leading Edge, 2007, 26, 1106-1111. | 0.7 | 16 |
| 38 | Diagenetic controls on fracture permeability and sealing. International Journal of Rock Mechanics and Minings Sciences, 1997, 34, 204.e1-204.e11. | 5.8 | 15 |
| 39 | Scaling of intraplate earthquake recurrence interval with fault length and implications for seismic hazard assessment. Geophysical Research Letters, 1994, 21, 2637-2640. | 4.0 | 9 |
| 40 | Using the Link Between Diagenesis and Fracturing to Accurately Predict, Characterize, and Model Fluid-Flow in Fractured Carbonate Rocks. , 2005, , . | | 7 |
| 41 | Spatial arrangement and size distribution of normal faults, Buckskin detachment upper plate, Western Arizona. Journal of Structural Geology, 2018, 108, 230-242. | 2.3 | 7 |
| 42 | Fractal Scaling of Secondary Porosity in Karstic Exposures of the Edwards Aquifer. , 2005, , 178. | | 5 |
| 43 | Quartz c-axis orientation patterns in fracture cement as a measure of fracture opening rate and a validation tool for fracture pattern models. , 2016, 12, 400-438. | | 5 |
| 44 | Estimation of fracture orientation and relative intensity using azimuthal variation of P&E AVO responses and oriented core data in the Tacata Field, Venezuela. , 2002, , . | | 1 |
| 45 | Tectonostratigraphic development and hydrocarbon reservoir quality on a convergent margin: East Coast, North Island, New Zealand. APPEA Journal, 2009, 49, 600. | 0.2 | 0 |