

David J Sanderson

List of Publications by Year in descending order

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128
papers

8,623
citations

50170

46
h-index

45213

90
g-index

131
all docs

131
docs citations

131
times ranked

4183
citing authors

#	ARTICLE	IF	CITATIONS
1	Transpression. <i>Journal of Structural Geology</i> , 1984, 6, 449-458.	1.0	802
2	Displacements, segment linkage and relay ramps in normal fault zones. <i>Journal of Structural Geology</i> , 1991, 13, 721-733.	1.0	754
3	Fault damage zones. <i>Journal of Structural Geology</i> , 2004, 26, 503-517.	1.0	676
4	The relationship between displacement and length of faults: a review. <i>Earth-Science Reviews</i> , 2005, 68, 317-334.	4.0	388
5	Models of strain variation in nappes and thrust sheets: A review. <i>Tectonophysics</i> , 1982, 88, 201-233.	0.9	250
6	Sampling power-law distributions. <i>Tectonophysics</i> , 1995, 248, 1-20.	0.9	226
7	The use of topology in fracture network characterization. <i>Journal of Structural Geology</i> , 2015, 72, 55-66.	1.0	223
8	The development of fold axes oblique to the regional trend. <i>Tectonophysics</i> , 1973, 16, 55-70.	0.9	200
9	Glossary of normal faults. <i>Journal of Structural Geology</i> , 2000, 22, 291-305.	1.0	189
10	Mesoscale strike-slip faults and damage zones at Marsalforn, Gozo Island, Malta. <i>Journal of Structural Geology</i> , 2003, 25, 793-812.	1.0	171
11	Glossary of fault and other fracture networks. <i>Journal of Structural Geology</i> , 2016, 92, 12-29.	1.0	162
12	Effects of layering and anisotropy on fault geometry. <i>Journal of the Geological Society</i> , 1992, 149, 793-802.	0.9	159
13	A Mohr circle construction for the opening of a pre-existing fracture. <i>Journal of Structural Geology</i> , 1997, 19, 887-892.	1.0	132
14	Variation in the form and distribution of dykes in the Mull swarm, Scotland. <i>Journal of Structural Geology</i> , 1995, 17, 1543-1557.	1.0	123
15	Spatial arrangement of faults and opening-mode fractures. <i>Journal of Structural Geology</i> , 2018, 108, 2-15.	1.0	116
16	Strike-slip relay ramps. <i>Journal of Structural Geology</i> , 1995, 17, 1351-1360.	1.0	115
17	Evaluation of the 2-D permeability tensor for fractured rock masses. <i>International Journal of Rock Mechanics and Mining Sciences</i> , 1996, 33, 17-37.	0.3	113
18	A fractal relationship between vein thickness and gold grade in drill core from La Codosera, Spain. <i>Economic Geology</i> , 1994, 89, 168-173.	1.8	110

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19	A broader classification of damage zones. <i>Journal of Structural Geology</i> , 2017, 102, 179-192.	1.0	106
20	Pull-aparts, shear fractures and pressure solution. <i>Tectonophysics</i> , 1995, 241, 1-13.	0.9	102
21	Structural similarity and variety at the tips in a wide range of strike-slip faults: a review. <i>Terra Nova</i> , 2006, 18, 330-344.	0.9	94
22	Relationships between fractures. <i>Journal of Structural Geology</i> , 2018, 106, 41-53.	1.0	92
23	The transition from upright to recumbent folding in the Variscan fold belt of southwest England: a model based on the kinematics of simple shear. <i>Journal of Structural Geology</i> , 1979, 1, 171-180.	1.0	88
24	Scaling of fault displacements from the Badajoz-C�rdoba shear zone, SW Spain. <i>Tectonophysics</i> , 1992, 210, 179-190.	0.9	87
25	Topology, connectivity and percolation in fracture networks. <i>Journal of Structural Geology</i> , 2018, 115, 167-177.	1.0	85
26	Deformation studies in the Irish Caledonides. <i>Journal of the Geological Society</i> , 1980, 137, 289-302.	0.9	84
27	Effects of propagation rate on displacement variations along faults. <i>Journal of Structural Geology</i> , 1996, 18, 311-320.	1.0	82
28	High-resolution record of displacement accumulation on an active normal fault: implications for models of slip accumulation during repeated earthquakes. <i>Journal of Structural Geology</i> , 2006, 28, 1146-1166.	1.0	79
29	Interacting faults. <i>Journal of Structural Geology</i> , 2017, 97, 1-22.	1.0	79
30	Selective reverse-reactivation of normal faults, and deformation around reverse-reactivated faults in the Mesozoic of the Somerset coast. <i>Journal of Structural Geology</i> , 1999, 21, 493-509.	1.0	75
31	Effects of stress on the two-dimensional permeability tensor of natural fracture networks. <i>Geophysical Journal International</i> , 1996, 125, 912-924.	1.0	74
32	Damage zones around strike-slip fault systems and strike-slip fault evolution, Crackington Haven, southwest England. <i>Geosciences Journal</i> , 2000, 4, 53-72.	0.6	73
33	Anisotropic features of geometry and permeability in fractured rock masses. <i>Engineering Geology</i> , 1995, 40, 65-75.	2.9	70
34	Linkage and evolution of conjugate strike-slip fault zones in limestones of Somerset and Northumbria. <i>Journal of Structural Geology</i> , 1998, 20, 1477-1493.	1.0	70
35	Strain and scaling of faults in the chalk at Flamborough Head, U.K.. <i>Journal of Structural Geology</i> , 1994, 16, 97-107.	1.0	69
36	Analysis of the fractal clustering of ore deposits in the Spanish Iberian Pyrite Belt. <i>Ore Geology Reviews</i> , 2010, 38, 307-318.	1.1	69

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37	Reactivated strike-slip faults: examples from north Cornwall, UK. <i>Tectonophysics</i> , 2001, 340, 173-194.	0.9	68
38	Numerical modelling of the effects of fault slip on fluid flow around extensional faults. <i>Journal of Structural Geology</i> , 1996, 18, 109-119.	1.0	67
39	The superposition of compaction and plane strain. <i>Tectonophysics</i> , 1976, 30, 35-54.	0.9	64
40	NetworkGT: A GIS tool for geometric and topological analysis of two-dimensional fracture networks. <i>Computers & Geosciences</i> , 2018, 14, 1618-1634.		64
41	Fault interactions and reactivation within a normal-fault network at Milne Point, Alaska. <i>AAPG Bulletin</i> , 2014, 98, 2081-2107.	0.7	59
42	Analysis of three-dimensional strain modified uniform distributions: andalusite fabrics from a granite aureole. <i>Journal of Structural Geology</i> , 1981, 3, 109-116.	1.0	58
43	Inferred fluid flow through fault damage zones based on the observation of stalactites in carbonate caves. <i>Journal of Structural Geology</i> , 2010, 32, 1305-1316.	1.0	56
44	Fractal analysis of Sn-W mineralization from central Iberia; insights into the role of fracture connectivity in the formation of an ore deposit. <i>Economic Geology</i> , 1998, 93, 360-365.	1.8	54
45	Structural zones of the Variscan fold belt in SW England, their location and development. <i>Journal of the Geological Society</i> , 1973, 129, 527-536.	0.9	52
46	Critical stress localization of flow associated with deformation of well-fractured rock masses, with implications for mineral deposits. <i>Geological Society Special Publication</i> , 1999, 155, 69-81.	0.8	52
47	Fractal effects of crack propagation on dynamic stress intensity factors and crack velocities. <i>International Journal of Fracture</i> , 1996, 74, 29-42.	1.1	51
48	Quantitative Analysis of Tin- and Tungsten-Bearing Sheeted Vein Systems. <i>Economic Geology</i> , 2008, 103, 1043-1056.	1.8	47
49	Numerical study of critical behaviour of deformation and permeability of fractured rock masses. <i>Marine and Petroleum Geology</i> , 1998, 15, 535-548.	1.5	46
50	Spatial and layer-controlled variability in fracture networks. <i>Journal of Structural Geology</i> , 2018, 108, 52-65.	1.0	44
51	Patterns of folding within nappes and thrust sheets: Examples from the Variscan of southwest England. <i>Tectonophysics</i> , 1982, 88, 247-267.	0.9	43
52	Estimating strain from fault slip using a line sample. <i>Journal of Structural Geology</i> , 1993, 15, 1513-1516.	1.0	43
53	Structural variation across the northern margin of the Variscides in NW Europe. <i>Geological Society Special Publication</i> , 1984, 14, 149-165.	0.8	42
54	A multifractal simulation model for the distribution of VMS deposits in the Spanish segment of the Iberian Pyrite Belt. <i>Computers and Geosciences</i> , 2011, 37, 1917-1927.	2.0	41

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55	Graph theory and the analysis of fracture networks. <i>Journal of Structural Geology</i> , 2019, 125, 155-165.	1.0	41
56	Structural analyses and fracture network characterisation: Seven pillars of wisdom. <i>Earth-Science Reviews</i> , 2018, 184, 13-28.	4.0	39
57	The analysis of finite strain using lines with an initial random orientation. <i>Tectonophysics</i> , 1977, 43, 199-211.	0.9	37
58	Numerical study of fluid flow of deforming fractured rocks using dual permeability model. <i>Geophysical Journal International</i> , 2002, 151, 452-468.	1.0	37
59	Deformation history and basin-controlling faults in the Mesozoic sedimentary rocks of the Somerset coast. <i>Proceedings of the Geologists Association</i> , 1999, 110, 41-52.	0.6	36
60	Spatial distribution of brittle strain in layered sequences. <i>Journal of Structural Geology</i> , 2008, 30, 50-64.	1.0	35
61	Line sampling of fracture swarms and corridors. <i>Journal of Structural Geology</i> , 2019, 122, 27-37.	1.0	35
62	The magnetic susceptibility anisotropy of deformed rocks from North Cornwall, England. <i>Tectonophysics</i> , 1975, 27, 141-153.	0.9	33
63	Reconciling plate kinematic and seismic estimates of lithospheric convergence in the central Indian Ocean. <i>Geology</i> , 2010, 38, 307-310.	2.0	33
64	Deformation within a strike-slip fault network at Westward Ho!, Devon U.K.: Domino vs conjugate faulting. <i>Journal of Structural Geology</i> , 2011, 33, 833-843.	1.0	33
65	Oblique fold axes in the Dalradian rocks of the Southwest Highlands. <i>Scottish Journal of Geology</i> , 1974, 9, 281-296.	0.1	31
66	A new 3D geological model and interpretation of structural evolution of the world-class Rio Tinto VMS deposit, Iberian Pyrite Belt (Spain). <i>Ore Geology Reviews</i> , 2015, 71, 457-476.	1.1	31
67	Thrust geometries in unconsolidated Quaternary sediments and evolution of the Eupchon Fault, southeast Korea. <i>Island Arc</i> , 2004, 13, 403-415.	0.5	30
68	The topology of evolving rift fault networks: Single-phase vs multi-phase rifts. <i>Journal of Structural Geology</i> , 2017, 96, 192-202.	1.0	30
69	The structure of SW Cornwall and its bearing on the emplacement of the Lizard Complex. <i>Journal of the Geological Society</i> , 1984, 141, 87-95.	0.9	29
70	Estimating flow heterogeneity in natural fracture systems. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 148, 116-129.	0.8	28
71	Distribution of faults and extensional strain in fractured carbonates of the North Malta Graben. <i>AAPG Bulletin</i> , 2010, 94, 435-456.	0.7	28
72	Analysis of a strike-slip fault network using high resolution multibeam bathymetry, offshore NW Devon U.K.. <i>Tectonophysics</i> , 2012, 541-543, 69-80.	0.9	28

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73	Models of fracture orientation at oblique spreading centres. <i>Journal of the Geological Society</i> , 1996, 153, 185-189.	0.9	27
74	Hercynian transpressional tectonics at the southern margin of the Central Iberian Zone, west Spain. <i>Journal of the Geological Society</i> , 1991, 148, 893-898.	0.9	26
75	Fractal kinematics of crack propagation in geomaterials. <i>Engineering Fracture Mechanics</i> , 1995, 50, 529-536.	2.0	26
76	Evaluation of instability in fractured rock masses using numerical analysis methods: Effects of fracture geometry and loading direction. <i>Journal of Geophysical Research</i> , 2001, 106, 26671-26687.	3.3	26
77	Slow-spreading ridge-axis tectonics: evidence from the Lizard complex, UK. <i>Earth and Planetary Science Letters</i> , 1993, 116, 101-112.	1.8	25
78	Ore deposit types and tectonic evolution of the Iberian Pyrite Belt: From transtensional basins and magmatism to transpression and inversion tectonics. <i>Ore Geology Reviews</i> , 2016, 79, 254-267.	1.1	24
79	Patterns of Boudinage and Apparent Stretching Lineation Developed in Folded Rocks. <i>Journal of Geology</i> , 1974, 82, 651-661.	0.7	23
80	Fractal analysis and percolation properties of veins. <i>Geological Society Special Publication</i> , 1999, 155, 7-16.	0.8	23
81	Are gold deposits in the crust fractals? A study of gold mines in the Zimbabwe craton. <i>Geological Society Special Publication</i> , 1999, 155, 141-151.	0.8	23
82	Localized vs distributed deformation associated with the linkage history of an active normal fault, Whakatane Graben, New Zealand. <i>Journal of Structural Geology</i> , 2014, 69, 266-280.	1.0	22
83	Fractal analysis of the evolution of a fracture network in a granite outcrop, SE Korea. <i>Geosciences Journal</i> , 2010, 14, 201-215.	0.6	20
84	Making rose diagrams fit-for-purpose. <i>Earth-Science Reviews</i> , 2020, 201, 103055.	4.0	19
85	Major early folds at the southern margin of the Culm synclinorium. <i>Journal of the Geological Society</i> , 1975, 131, 337-352.	0.9	18
86	Spatial distribution of damage and strain within a normal fault relay at Kilve, U.K.. <i>Journal of Structural Geology</i> , 2019, 118, 194-209.	1.0	17
87	Connectivity and network development of carbonate-hosted fault damage zones from western Malta. <i>Journal of Structural Geology</i> , 2020, 141, 104212.	1.0	17
88	Large lateral ramps in the Eocene Valkyr shear zone: extensional ductile faulting controlled by plutonism in southern British Columbia: Discussion. <i>Journal of Structural Geology</i> , 1998, 20, 487-488.	1.0	16
89	Stress-controlled localization of deformation and fluid flow in fractured rocks. <i>Geological Society Special Publication</i> , 2004, 231, 299-314.	0.8	16
90	Morphometric analysis of the submarine arc volcano Monowai (Tofuaâ€™Kermadec Arc) to decipher tectono-magmatic interactions. <i>Journal of Volcanology and Geothermal Research</i> , 2012, 239-240, 69-82.	0.8	15

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91	Comparison of upwards splaying and upwards merging segmented normal faults. <i>Journal of Structural Geology</i> , 2017, 100, 1-11.	1.0	15
92	Quantitative Constraints on Faulting and Fault Slip Rates in the Northern Main Ethiopian Rift. <i>Tectonics</i> , 2020, 39, e2019TC006046.	1.3	15
93	Fractal Structure and Deformation of Fractured Rock Masses. , 1994, , 37-52.		15
94	Reactive transport modelling insights into CO2 migration through sub-vertical fluid flow structures. <i>International Journal of Greenhouse Gas Control</i> , 2019, 86, 82-92.	2.3	14
95	A fractal model and energy dissipation for en echelon fractures. <i>Engineering Fracture Mechanics</i> , 1994, 48, 655-662.	2.0	13
96	Scaling of fault displacements and implications for the estimation of sub-seismic strain. <i>Geological Society Special Publication</i> , 1996, 99, 11-26.	0.8	13
97	Similarities between strike-slip faults at different scales and a simple age determining method for active faults. <i>Island Arc</i> , 2004, 13, 128-143.	0.5	13
98	Field-based structural studies as analogues to sub-surface reservoirs. <i>Geological Society Special Publication</i> , 2016, 436, 207-217.	0.8	13
99	Bathymetric mapping of the coastal and offshore geology and structure of the Jurassic Coast, Weymouth Bay, UK. <i>Journal of the Geological Society</i> , 2017, 174, 498-508.	0.9	12
100	The algebraic evaluation of two-dimensional finite strain rosettes. <i>Mathematical Geosciences</i> , 1977, 9, 483-496.	0.9	11
101	Scale up of two-dimensional conductivity tensor for heterogenous fracture networks. <i>Engineering Geology</i> , 1999, 53, 83-99.	2.9	11
102	The interdisciplinary use of "overpressure". <i>Journal of Volcanology and Geothermal Research</i> , 2017, 341, 1-5.	0.8	11
103	Episodic growth of fold-thrust belts: Insights from Finite Element Modelling. <i>Journal of Structural Geology</i> , 2017, 102, 113-129.	1.0	11
104	Deformation in the Caledonides of England, Ireland and Scotland. <i>Geological Society Special Publication</i> , 1979, 8, 163-186.	0.8	10
105	Fractal Fault Displacements: A Case Study from the Moray Firth, Scotland. , 1994, , 105-119.		10
106	The structural boundary between East and West Falkland: new evidence for movement history and lateral extent. <i>Marine and Petroleum Geology</i> , 2000, 17, 13-26.	1.5	10
107	Polyphase Development of Slaty Cleavage and the Confrontation of Facing Directions in the Devonian Rocks of North Cornwall. <i>Nature: Physical Science</i> , 1971, 230, 87-89.	0.8	9
108	The intrusive form of some basalt dykes showing flow lineation. <i>Geological Magazine</i> , 1971, 108, 489-499.	0.9	9

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109	The distribution of faults and fractures and their importance in accommodating extensional strain at Kimmeridge Bay, Dorset, UK. Geological Society Special Publication, 2008, 299, 97-111.	0.8	9
110	Strain analysis using length-weighting of deformed random line elements. Journal of Structural Geology, 1987, 9, 511-514.	1.0	8
111	Tectonic setting and fluid evolution of auriferous quartz veins from the La Codosera area, western Spain. Economic Geology, 1991, 86, 1012-1022.	1.8	8
112	Spatial variability of the Purbeck "Wight Fault Zone" a long-lived tectonic element in the southern UK. Proceedings of the Geologists Association, 2018, 129, 436-451.	0.6	8
113	Analysis of deformation bands associated with the Trachyte Mesa intrusion, Henry Mountains, Utah: implications for reservoir connectivity and fluid flow around sill intrusions. Solid Earth, 2021, 12, 95-117.	1.2	8
114	Interpretation of structural domains in discontinuity data from Nirex deep boreholes at Sellafield. Proceedings of the Yorkshire Geological Society, 1998, 52, 177-187.	0.2	6
115	Measurement of geometry and linkage in vein arrays. Journal of Structural Geology, 2019, 118, 104-113.	1.0	6
116	Mechanical control of oceanic plate boundary geometry. Tectonophysics, 1999, 313, 265-270.	0.9	5
117	Brecciation driven by changes in fluid column heights. Terra Nova, 2019, 31, 76-81.	0.9	5
118	Use of Mohr Diagrams to Predict Fracturing in a Potential Geothermal Reservoir. Geosciences (Switzerland), 2021, 11, 501.	1.0	5
119	The use of high-resolution seismic reflection profiles for fault analysis in the near-shore environment, Weymouth Bay, Dorset, England, United Kingdom. Journal of Geophysical Research, 1998, 103, 15409-15422.	3.3	4
120	The Highland Border Ridge of North-east Ireland. Geological Magazine, 1970, 107, 531-538.	0.9	3
121	The determination of compactional strains using quasi-cylindrical objects. Tectonophysics, 1976, 30, T25-T32.	0.9	3
122	Fault size distribution analysis " an example from Kimmeridge Bay, Dorset, UK. Geological Society Special Publication, 1998, 133, 299-310.	0.8	3
123	Fault populations and their relationship to the scaling of surface roughness. Journal of Geophysical Research, 1999, 104, 2691-2701.	3.3	3
124	Study of fracture-induced anisotropy from discrete fracture network simulation of well test responses. Geological Society Special Publication, 2007, 270, 117-137.	0.8	3
125	The assumption of constant volume in the extrapolation of 2-dimensional strain data to 3-dimensions: a discussion of Thakur (1972). Geological Magazine, 1975, 112, 94-96.	0.9	2
126	Numerical modelling of the effects of fault slip on fluid flow around extensional faults: Reply. Journal of Structural Geology, 1997, 19, 1427-1428.	1.0	1

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127	Some Inference Problems in Paleocurrent Studies. <i>Journal of Sedimentary Research</i> , 1973, Vol. 43, .	0.8	1
128	Is the Coulomb Wedge Model Applicable to Passive Margin Deformation?. , 2015, , .		0