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	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
2	Use of Mohr Diagrams to Predict Fracturing in a Potential Geothermal Reservoir. Geosciences (Switzerland), 2021, 11, 501.	1.0	5
3	Making rose diagrams fit-for-purpose. Earth-Science Reviews, 2020, 201, 103055.	4.0	19
4	Connectivity and network development of carbonate-hosted fault damage zones from western Malta. Journal of Structural Geology, 2020, 141, 104212.	1.0	17
5	Quantitative Constraints on Faulting and Fault Slip Rates in the Northern Main Ethiopian Rift. Tectonics, 2020, 39, e2019TC006046.	1.3	15
6	Reactive transport modelling insights into CO2 migration through sub-vertical fluid flow structures. International Journal of Greenhouse Gas Control, 2019, 86, 82-92.	2.3	14
7	Line sampling of fracture swarms and corridors. Journal of Structural Geology, 2019, 122, 27-37.	1.0	35
8	Brecciation driven by changes in fluid column heights. Terra Nova, 2019, 31, 76-81.	0.9	5
9	Spatial distribution of damage and strain within a normal fault relay at Kilve, U.K.. Journal of Structural Geology, 2019, 118, 194-209.	1.0	17
10	Measurement of geometry and linkage in vein arrays. Journal of Structural Geology, 2019, 118, 104-113.	1.0	6
11	Graph theory and the analysis of fracture networks. Journal of Structural Geology, 2019, 125, 155-165.	1.0	41
12	Spatial and layer-controlled variability in fracture networks. Journal of Structural Geology, 2018, 108, 52-65.	1.0	44
13	Spatial arrangement of faults and opening-mode fractures. Journal of Structural Geology, 2018, 108, 2-15.	1.0	116
14	Relationships between fractures. Journal of Structural Geology, 2018, 106, 41-53.	1.0	92
15	Spatial variability of the Purbeckâ€“Wight Fault Zoneâ€”a long-lived tectonic element in the southern UK. Proceedings of the Geologists Association, 2018, 129, 436-451.	0.6	8
16	NetworkGT: A GIS tool for geometric and topological analysis of two-dimensional fracture networks. , 2018, 14, 1618-1634.		64
17	Topology, connectivity and percolation in fracture networks. Journal of Structural Geology, 2018, 115, 167-177.	1.0	85
18	Structural analyses and fracture network characterisation: Seven pillars of wisdom. Earth-Science Reviews, 2018, 184, 13-28.	4.0	39

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19	Bathymetric mapping of the coastal and offshore geology and structure of the Jurassic Coast, Weymouth Bay, UK. Journal of the Geological Society, 2017, 174, 498-508.	0.9	12
20	Interacting faults. Journal of Structural Geology, 2017, 97, 1-22.	1.0	79
21	The topology of evolving rift fault networks: Single-phase vs multi-phase rifts. Journal of Structural Geology, 2017, 96, 192-202.	1.0	30
22	The interdisciplinary use of â€œoverpressureâ€. Journal of Volcanology and Geothermal Research, 2017, 341, 1-5.	0.8	11
23	Comparison of upwards splaying and upwards merging segmented normal faults. Journal of Structural Geology, 2017, 100, 1-11.	1.0	15
24	Episodic growth of fold-thrust belts: Insights from Finite Element Modelling. Journal of Structural Geology, 2017, 102, 113-129.	1.0	11
25	A broader classification of damage zones. Journal of Structural Geology, 2017, 102, 179-192.	1.0	106
26	Ore deposit types and tectonic evolution of the Iberian Pyrite Belt: From transtensional basins and magmatism to transpression and inversion tectonics. Ore Geology Reviews, 2016, 79, 254-267.	1.1	24
27	Glossary of fault and other fracture networks. Journal of Structural Geology, 2016, 92, 12-29.	1.0	162
28	Field-based structural studies as analogues to sub-surface reservoirs. Geological Society Special Publication, 2016, 436, 207-217.	0.8	13
29	The use of topology in fracture network characterization. Journal of Structural Geology, 2015, 72, 55-66.	1.0	223
30	A new 3D geological model and interpretation of structural evolution of the world-class Rio Tinto VMS deposit, Iberian Pyrite Belt (Spain). Ore Geology Reviews, 2015, 71, 457-476.	1.1	31
31	Is the Coulomb Wedge Model Applicable to Passive Margin Deformation?. , 2015, , .		0
32	Fault interactions and reactivation within a normal-fault network at Milne Point, Alaska. AAPG Bulletin, 2014, 98, 2081-2107.	0.7	59
33	Localized vs distributed deformation associated with the linkage history of an active normal fault, Whakatane Graben, New Zealand. Journal of Structural Geology, 2014, 69, 266-280.	1.0	22
34	Morphometric analysis of the submarine arc volcano Monowai (Tofuaâ€“Kermadec Arc) to decipher tectono-magmatic interactions. Journal of Volcanology and Geothermal Research, 2012, 239-240, 69-82.	0.8	15
35	Analysis of a strike-slip fault network using high resolution multibeam bathymetry, offshore NW Devon U.K.. Tectonophysics, 2012, 541-543, 69-80.	0.9	28
36	Deformation within a strike-slip fault network at Westward Ho!, Devon U.K.: Domino vs conjugate faulting. Journal of Structural Geology, 2011, 33, 833-843.	1.0	33

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37	A multifractal simulation model for the distribution of VMS deposits in the Spanish segment of the Iberian Pyrite Belt. Computers and Geosciences, 2011, 37, 1917-1927.	2.0	41
38	Reconciling plate kinematic and seismic estimates of lithospheric convergence in the central Indian Ocean. Geology, 2010, 38, 307-310.	2.0	33
39	Fractal analysis of the evolution of a fracture network in a granite outcrop, SE Korea. Geosciences Journal, 2010, 14, 201-215.	0.6	20
40	Inferred fluid flow through fault damage zones based on the observation of stalactites in carbonate caves. Journal of Structural Geology, 2010, 32, 1305-1316.	1.0	56
41	Analysis of the fractal clustering of ore deposits in the Spanish Iberian Pyrite Belt. Ore Geology Reviews, 2010, 38, 307-318.	1.1	69
42	Distribution of faults and extensional strain in fractured carbonates of the North Malta Graben. AAPG Bulletin, 2010, 94, 435-456.	0.7	28
43	Spatial distribution of brittle strain in layered sequences. Journal of Structural Geology, 2008, 30, 50-64.	1.0	35
44	Quantitative Analysis of Tin- and Tungsten-Bearing Sheeted Vein Systems. Economic Geology, 2008, 103, 1043-1056.	1.8	47
45	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
46	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
47	Structural similarity and variety at the tips in a wide range of strikeâ€“slip faults: a review. Terra Nova, 2006, 18, 330-344.	0.9	94
48	High-resolution record of displacement accumulation on an active normal fault: implications for models of slip accumulation during repeated earthquakes. Journal of Structural Geology, 2006, 28, 1146-1166.	1.0	79
49	The relationship between displacement and length of faults: a review. Earth-Science Reviews, 2005, 68, 317-334.	4.0	388
50	Estimating flow heterogeneity in natural fracture systems. Journal of Volcanology and Geothermal Research, 2005, 148, 116-129.	0.8	28
51	Similarities between strike-slip faults at different scales and a simple age determining method for active faults. Island Arc, 2004, 13, 128-143.	0.5	13
52	Thrust geometries in unconsolidated Quaternary sediments and evolution of the Eupchon Fault, southeast Korea. Island Arc, 2004, 13, 403-415.	0.5	30
53	Fault damage zones. Journal of Structural Geology, 2004, 26, 503-517.	1.0	676
54	Stress-controlled localization of deformation and fluid flow in fractured rocks. Geological Society Special Publication, 2004, 231, 299-314.	0.8	16

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55	Mesoscale strike-slip faults and damage zones at Marsalforn, Gozo Island, Malta. Journal of Structural Geology, 2003, 25, 793-812.	1.0	171
56	Numerical study of fluid flow of deforming fractured rocks using dual permeability model. Geophysical Journal International, 2002, 151, 452-468.	1.0	37
57	Evaluation of instability in fractured rock masses using numerical analysis methods: Effects of fracture geometry and loading direction. Journal of Geophysical Research, 2001, 106, 26671-26687.	3.3	26
58	Reactivated strikeâ€“slip faults: examples from north Cornwall, UK. Tectonophysics, 2001, 340, 173-194.	0.9	68
59	Glossary of normal faults. Journal of Structural Geology, 2000, 22, 291-305.	1.0	189
60	Damage zones around strike-slip fault systems and strike-slip fault evolution, Crackington Haven, southwest England. Geosciences Journal, 2000, 4, 53-72.	0.6	73
61	The structural boundary between East and West Falkland: new evidence for movement history and lateral extent. Marine and Petroleum Geology, 2000, 17, 13-26.	1.5	10
62	Critical stress localization of flow associated with deformation of well-fractured rock masses, with implications for mineral deposits. Geological Society Special Publication, 1999, 155, 69-81.	0.8	52
63	Fractal analysis and percolation properties of veins. Geological Society Special Publication, 1999, 155, 7-16.	0.8	23
64	Are gold deposits in the crust fractals? A study of gold mines in the Zimbabwe craton. Geological Society Special Publication, 1999, 155, 141-151.	0.8	23
65	Scale up of two-dimensional conductivity tensor for heterogenous fracture networks. Engineering Geology, 1999, 53, 83-99.	2.9	11
66	Selective reverse-reactivation of normal faults, and deformation around reverse-reactivated faults in the Mesozoic of the Somerset coast. Journal of Structural Geology, 1999, 21, 493-509.	1.0	75
67	Deformation history and basin-controlling faults in the Mesozoic sedimentary rocks of the Somerset coast. Proceedings of the Geologists Association, 1999, 110, 41-52.	0.6	36
68	Mechanical control of oceanic plate boundary geometry. Tectonophysics, 1999, 313, 265-270.	0.9	5
69	Fault populations and their relationship to the scaling of surface roughness. Journal of Geophysical Research, 1999, 104, 2691-2701.	3.3	3
70	Large lateral ramps in the Eocene Valkyr shear zone: extensional ductile faulting controlled by plutonism in southern British Columbia: Discussion. Journal of Structural Geology, 1998, 20, 487-488.	1.0	16
71	Linkage and evolution of conjugate strike-slip fault zones in limestones of Somerset and Northumbria. Journal of Structural Geology, 1998, 20, 1477-1493.	1.0	70
72	Numerical study of critical behaviour of deformation and permeability of fractured rock masses. Marine and Petroleum Geology, 1998, 15, 535-548.	1.5	46

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73	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
74	Fault size distribution analysis â€" an example from Kimmeridge Bay, Dorset, UK. Geological Society Special Publication, 1998, 133, 299-310.	0.8	3
75	Fractal analysis of Sn-W mineralization from central Iberia; insights into the role of fracture connectivity in the formation of an ore deposit. Economic Geology, 1998, 93, 360-365.	1.8	54
76	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
77	A Mohr circle construction for the opening of a pre-existing fracture. Journal of Structural Geology, 1997, 19, 887-892.	1.0	132
78	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
79	Models of fracture orientation at oblique spreading centres. Journal of the Geological Society, 1996, 153, 185-189.	0.9	27
80	Numerical modelling of the effects of fault slip on fluid flow around extensional faults. Journal of Structural Geology, 1996, 18, 109-119.	1.0	67
81	Effects of propagation rate on displacement variations along faults. Journal of Structural Geology, 1996, 18, 311-320.	1.0	82
82	Evaluation of the 2-D permeability tensor for fractured rock masses. International Journal of Rock Mechanics and Mining Sciences, 1996, 33, 17-37.	0.3	113
83	Fractal effects of crack propagation on dynamic stress intensity factors and crack velocities. International Journal of Fracture, 1996, 74, 29-42.	1.1	51
84	Effects of stress on the two-dimensional permeability tensor of natural fracture networks. Geophysical Journal International, 1996, 125, 912-924.	1.0	74
85	Scaling of fault displacements and implications for the estimation of sub-seismic strain. Geological Society Special Publication, 1996, 99, 11-26.	0.8	13
86	Fractal kinematics of crack propagation in geomaterials. Engineering Fracture Mechanics, 1995, 50, 529-536.	2.0	26
87	Anisotropic features of geometry and permeability in fractured rock masses. Engineering Geology, 1995, 40, 65-75.	2.9	70
88	Variation in the form and distribution of dykes in the Mull swarm, Scotland. Journal of Structural Geology, 1995, 17, 1543-1557.	1.0	123
89	Strike-slip relay ramps. Journal of Structural Geology, 1995, 17, 1351-1360.	1.0	115
90	Pull-aparts, shear fractures and pressure solution. Tectonophysics, 1995, 241, 1-13.	0.9	102

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91	Sampling power-law distributions. Tectonophysics, 1995, 248, 1-20.	0.9	226
92	A fractal relationship between vein thickness and gold grade in drill core from La Codosera, Spain. Economic Geology, 1994, 89, 168-173.	1.8	110
93	Fractal Fault Displacements: A Case Study from the Moray Firth, Scotland. , 1994, , 105-119.		10
94	A fractal model and energy dissipation for en echelon fractures. Engineering Fracture Mechanics, 1994, 48, 655-662.	2.0	13
95	Strain and scaling of faults in the chalk at Flamborough Head, U.K.. Journal of Structural Geology, 1994, 16, 97-107.	1.0	69
96	Fractal Structure and Deformation of Fractured Rock Masses. , 1994, , 37-52.		15
97	Estimating strain from fault slip using a line sample. Journal of Structural Geology, 1993, 15, 1513-1516.	1.0	43
98	Slow-spreading ridge-axis tectonics: evidence from the Lizard complex, UK. Earth and Planetary Science Letters, 1993, 116, 101-112.	1.8	25
99	Effects of layering and anisotropy on fault geometry. Journal of the Geological Society, 1992, 149, 793-802.	0.9	159
100	Scaling of fault displacements from the Badajoz-CÃ³rdoba shear zone, SW spain. Tectonophysics, 1992, 210, 179-190.	0.9	87
101	Displacements, segment linkage and relay ramps in normal fault zones. Journal of Structural Geology, 1991, 13, 721-733.	1.0	754
102	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
103	Hercynian transpressional tectonics at the southern margin of the Central Iberian Zone, west Spain. Journal of the Geological Society, 1991, 148, 893-898.	0.9	26
104	Strain analysis using length-weighting of deformed random line elements. Journal of Structural Geology, 1987, 9, 511-514.	1.0	8
105	Structural variation across the northern margin of the Variscides in NW Europe. Geological Society Special Publication, 1984, 14, 149-165.	0.8	42
106	The structure of SW Cornwall and its bearing on the emplacement of the Lizard Complex. Journal of the Geological Society, 1984, 141, 87-95.	0.9	29
107	Transpression. Journal of Structural Geology, 1984, 6, 449-458.	1.0	802
108	Models of strain variation in nappes and thrust sheets: A review. Tectonophysics, 1982, 88, 201-233.	0.9	250

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109	Patterns of folding within nappes and thrust sheets: Examples from the Variscan of southwest England. Tectonophysics, 1982, 88, 247-267.	0.9	43
110	Analysis of three-dimensional strain modified uniform distributions: andalusite fabrics from a granite aureole. Journal of Structural Geology, 1981, 3, 109-116.	1.0	58
111	Deformation studies in the Irish Caledonides. Journal of the Geological Society, 1980, 137, 289-302.	0.9	84
112	Deformation in the Caledonides of England, Ireland and Scotland. Geological Society Special Publication, 1979, 8, 163-186.	0.8	10
113	The transition from upright to recumbent folding in the Variscan fold belt of southwest England: a model based on the kinematics of simple shear. Journal of Structural Geology, 1979, 1, 171-180.	1.0	88
114	The analysis of finite strain using lines with an initial random orientation. Tectonophysics, 1977, 43, 199-211.	0.9	37
115	The algebraic evaluation of two-dimensional finite strain rosettes. Mathematical Geosciences, 1977, 9, 483-496.	0.9	11
116	The superposition of compaction and plane strain. Tectonophysics, 1976, 30, 35-54.	0.9	64
117	The determination of compactional strains using quasi-cylindrical objects. Tectonophysics, 1976, 30, T25-T32.	0.9	3
118	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
119	Major early folds at the southern margin of the Culm synclinorium. Journal of the Geological Society, 1975, 131, 337-352.	0.9	18
120	The magnetic susceptibility anisotropy of deformed rocks from North Cornwall, England. Tectonophysics, 1975, 27, 141-153.	0.9	33
121	Oblique fold axes in the Dalradian rocks of the Southwest Highlands. Scottish Journal of Geology, 1974, 9, 281-296.	0.1	31
122	Patterns of Boudinage and Apparent Stretching Lineation Developed in Folded Rocks. Journal of Geology, 1974, 82, 651-661.	0.7	23
123	The development of fold axes oblique to the regional trend. Tectonophysics, 1973, 16, 55-70.	0.9	200
124	Structural zones of the Variscan fold belt in SW England, their location and development. Journal of the Geological Society, 1973, 129, 527-536.	0.9	52
125	Some Inference Problems in Paleocurrent Studies. Journal of Sedimentary Research, 1973, Vol. 43, .	0.8	1
126	Polyphase Development of Slaty Cleavage and the Confrontation of Facing Directions in the Devonian Rocks of North Cornwall. Nature: Physical Science, 1971, 230, 87-89.	0.8	9

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127	The intrusive form of some basalt dykes showing flow lineation. Geological Magazine, 1971, 108, 489-499.	0.9	9
128	The Highland Border Ridge of North-east Ireland. Geological Magazine, 1970, 107, 531-538.	0.9	3