David J Sanderson

List of Publications by Year in descending order

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| | 50276 | 45317 |
|----------------|------------------|--|
| 8,623 | 46 | 90 |
| citations | h-index | g-index |
| | | |
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| | | |
| 131 | 131 | 4183 |
| docs citations | times ranked | citing authors |
| | | |
| | citations 131 | 8,623 46 citations h-index 131 131 |

| # | 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. | 2.8 | 8 |
| 2 | Use of Mohr Diagrams to Predict Fracturing in a Potential Geothermal Reservoir. Geosciences (Switzerland), 2021, 11, 501. | 2.2 | 5 |
| 3 | Making rose diagrams fit-for-purpose. Earth-Science Reviews, 2020, 201, 103055. | 9.1 | 19 |
| 4 | Connectivity and network development of carbonate-hosted fault damage zones from western Malta. Journal of Structural Geology, 2020, 141, 104212. | 2.3 | 17 |
| 5 | Quantitative Constraints on Faulting and Fault Slip Rates in the Northern Main Ethiopian Rift. Tectonics, 2020, 39, e2019TC006046. | 2.8 | 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. | 4.6 | 14 |
| 7 | Line sampling of fracture swarms and corridors. Journal of Structural Geology, 2019, 122, 27-37. | 2.3 | 35 |
| 8 | Brecciation driven by changes in fluid column heights. Terra Nova, 2019, 31, 76-81. | 2.1 | 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. | 2.3 | 17 |
| 10 | Measurement of geometry and linkage in vein arrays. Journal of Structural Geology, 2019, 118, 104-113. | 2.3 | 6 |
| 11 | Graph theory and the analysis of fracture networks. Journal of Structural Geology, 2019, 125, 155-165. | 2.3 | 41 |
| 12 | Spatial and layer-controlled variability in fracture networks. Journal of Structural Geology, 2018, 108, 52-65. | 2.3 | 44 |
| 13 | Spatial arrangement of faults and opening-mode fractures. Journal of Structural Geology, 2018, 108, 2-15. | 2.3 | 116 |
| 14 | Relationships between fractures. Journal of Structural Geology, 2018, 106, 41-53. | 2.3 | 92 |
| 15 | 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. | 1.1 | 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. | 2.3 | 85 |
| 18 | Structural analyses and fracture network characterisation: Seven pillars of wisdom. Earth-Science Reviews, 2018, 184, 13-28. | 9.1 | 39 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 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. | 2.1 | 12 |
| 20 | Interacting faults. Journal of Structural Geology, 2017, 97, 1-22. | 2.3 | 79 |
| 21 | The topology of evolving rift fault networks: Single-phase vs multi-phase rifts. Journal of Structural Geology, 2017, 96, 192-202. | 2.3 | 30 |
| 22 | The interdisciplinary use of "overpressureâ€: Journal of Volcanology and Geothermal Research, 2017, 341, 1-5. | 2.1 | 11 |
| 23 | Comparison of upwards splaying and upwards merging segmented normal faults. Journal of Structural Geology, 2017, 100, 1-11. | 2.3 | 15 |
| 24 | Episodic growth of fold-thrust belts: Insights from Finite Element Modelling. Journal of Structural Geology, 2017, 102, 113-129. | 2.3 | 11 |
| 25 | A broader classification of damage zones. Journal of Structural Geology, 2017, 102, 179-192. | 2.3 | 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. | 2.7 | 24 |
| 27 | Glossary of fault and other fracture networks. Journal of Structural Geology, 2016, 92, 12-29. | 2.3 | 162 |
| 28 | Field-based structural studies as analogues to sub-surface reservoirs. Geological Society Special Publication, 2016, 436, 207-217. | 1.3 | 13 |
| 29 | The use of topology in fracture network characterization. Journal of Structural Geology, 2015, 72, 55-66. | 2.3 | 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. | 2.7 | 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. | 1.5 | 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. | 2.3 | 22 |
| 34 | Morphometric analysis of the submarine arc volcano Monowai (Tofua–Kermadec Arc) to decipher tectono-magmatic interactions. Journal of Volcanology and Geothermal Research, 2012, 239-240, 69-82. | 2.1 | 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. | 2.2 | 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. | 2.3 | 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. | 4.2 | 41 |
| 38 | Reconciling plate kinematic and seismic estimates of lithospheric convergence in the central Indian Ocean. Geology, 2010, 38, 307-310. | 4.4 | 33 |
| 39 | Fractal analysis of the evolution of a fracture network in a granite outcrop, SE Korea. Geosciences Journal, 2010, 14, 201-215. | 1.2 | 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. | 2.3 | 56 |
| 41 | Analysis of the fractal clustering of ore deposits in the Spanish Iberian Pyrite Belt. Ore Geology Reviews, 2010, 38, 307-318. | 2.7 | 69 |
| 42 | Distribution of faults and extensional strain in fractured carbonates of the North Malta Graben. AAPG Bulletin, 2010, 94, 435-456. | 1.5 | 28 |
| 43 | Spatial distribution of brittle strain in layered sequences. Journal of Structural Geology, 2008, 30, 50-64. | 2.3 | 35 |
| 44 | Quantitative Analysis of Tin- and Tungsten-Bearing Sheeted Vein Systems. Economic Geology, 2008, 103, 1043-1056. | 3.8 | 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. | 1.3 | 9 |
| 46 | Study of fracture-induced anisotropy from discrete fracture network simulation of well test responses. Geological Society Special Publication, 2007, 270, 117-137. | 1.3 | 3 |
| 47 | Structural similarity and variety at the tips in a wide range of strike–slip faults: a review. Terra Nova, 2006, 18, 330-344. | 2.1 | 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. | 2.3 | 79 |
| 49 | The relationship between displacement and length of faults: a review. Earth-Science Reviews, 2005, 68, 317-334. | 9.1 | 388 |
| 50 | Estimating flow heterogeneity in natural fracture systems. Journal of Volcanology and Geothermal Research, 2005, 148, 116-129. | 2.1 | 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. | 1.1 | 13 |
| 52 | Thrust geometries in unconsolidated Quaternary sediments and evolution of the Eupchon Fault, southeast Korea. Island Arc, 2004, 13, 403-415. | 1.1 | 30 |
| 53 | Fault damage zones. Journal of Structural Geology, 2004, 26, 503-517. | 2.3 | 676 |
| 54 | Stress-controlled localization of deformation and fluid flow in fractured rocks. Geological Society Special Publication, 2004, 231, 299-314. | 1.3 | 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. | 2.3 | 171 |
| 56 | Numerical study of fluid flow of deforming fractured rocks using dual permeability model. Geophysical Journal International, 2002, 151, 452-468. | 2.4 | 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 strike–slip faults: examples from north Cornwall, UK. Tectonophysics, 2001, 340, 173-194. | 2.2 | 68 |
| 59 | Glossary of normal faults. Journal of Structural Geology, 2000, 22, 291-305. | 2.3 | 189 |
| 60 | Damage zones around strike-slip fault systems and strike-slip fault evolution, Crackington Haven, southwest England. Geosciences Journal, 2000, 4, 53-72. | 1.2 | 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. | 3.3 | 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. | 1.3 | 52 |
| 63 | Fractal analysis and percolation properties of veins. Geological Society Special Publication, 1999, 155, 7-16. | 1.3 | 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. | 1.3 | 23 |
| 65 | Scale up of two-dimensional conductivity tensor for heterogenous fracture networks. Engineering Geology, 1999, 53, 83-99. | 6.3 | 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. | 2.3 | 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. | 1.1 | 36 |
| 68 | Mechanical control of oceanic plate boundary geometry. Tectonophysics, 1999, 313, 265-270. | 2.2 | 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. | 2.3 | 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. | 2.3 | 70 |
| 72 | Numerical study of critical behaviour of deformation and permeability of fractured rock masses. Marine and Petroleum Geology, 1998, 15, 535-548. | 3.3 | 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 — an example from Kimmeridge Bay, Dorset, UK. Geological Society Special Publication, 1998, 133, 299-310. | 1.3 | 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. | 3.8 | 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. | 0.3 | 6 |
| 77 | A Mohr circle construction for the opening of a pre-existing fracture. Journal of Structural Geology, 1997, 19, 887-892. | 2.3 | 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. | 2.3 | 1 |
| 79 | Models of fracture orientation at oblique spreading centres. Journal of the Geological Society, 1996, 153, 185-189. | 2.1 | 27 |
| 80 | Numerical modelling of the effects of fault slip on fluid flow around extensional faults. Journal of Structural Geology, 1996, 18, 109-119. | 2.3 | 67 |
| 81 | Effects of propagation rate on displacement variations along faults. Journal of Structural Geology, 1996, 18, 311-320. | 2.3 | 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. | 0.0 | 113 |
| 83 | Fractal effects of crack propagation on dynamic stress intensity factors and crack velocities. International Journal of Fracture, 1996, 74, 29-42. | 2.2 | 51 |
| 84 | Effects of stress on the two-dimensional permeability tensor of natural fracture networks. Geophysical Journal International, 1996, 125, 912-924. | 2.4 | 74 |
| 85 | Scaling of fault displacements and implications for the estimation of sub-seismic strain. Geological Society Special Publication, 1996, 99, 11-26. | 1.3 | 13 |
| 86 | Fractal kinematics of crack propagation in geomaterials. Engineering Fracture Mechanics, 1995, 50, 529-536. | 4.3 | 26 |
| 87 | Anisotropic features of geometry and permeability in fractured rock masses. Engineering Geology, 1995, 40, 65-75. | 6.3 | 70 |
| 88 | Variation in the form and distribution of dykes in the Mull swarm, Scotland. Journal of Structural Geology, 1995, 17, 1543-1557. | 2.3 | 123 |
| 89 | Strike-slip relay ramps. Journal of Structural Geology, 1995, 17, 1351-1360. | 2.3 | 115 |
| 90 | Pull-aparts, shear fractures and pressure solution. Tectonophysics, 1995, 241, 1-13. | 2.2 | 102 |

| # | Article | IF | CITATIONS |
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| 91 | Sampling power-law distributions. Tectonophysics, 1995, 248, 1-20. | 2.2 | 226 |
| 92 | A fractal relationship between vein thickness and gold grade in drill core from La Codosera, Spain. Economic Geology, 1994, 89, 168-173. | 3.8 | 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. | 4.3 | 13 |
| 95 | Strain and scaling of faults in the chalk at Flamborough Head, U.K Journal of Structural Geology, 1994, 16, 97-107. | 2.3 | 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. | 2.3 | 43 |
| 98 | Slow-spreading ridge-axis tectonics: evidence from the Lizard complex, UK. Earth and Planetary Science Letters, 1993, 116, 101-112. | 4.4 | 25 |
| 99 | Effects of layering and anisotropy on fault geometry. Journal of the Geological Society, 1992, 149, 793-802. | 2.1 | 159 |
| 100 | Scaling of fault displacements from the Badajoz-Córdoba shear zone, SW spain. Tectonophysics, 1992, 210, 179-190. | 2.2 | 87 |
| 101 | Displacements, segment linkage and relay ramps in normal fault zones. Journal of Structural Geology, 1991, 13, 721-733. | 2.3 | 754 |
| 102 | Tectonic setting and fluid evolution of auriferous quartz veins from the La Codosera area, western Spain. Economic Geology, 1991, 86, 1012-1022. | 3.8 | 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. | 2.1 | 26 |
| 104 | Strain analysis using length-weighting of deformed random line elements. Journal of Structural Geology, 1987, 9, 511-514. | 2.3 | 8 |
| 105 | Structural variation across the northern margin of the Variscides in NW Europe. Geological Society Special Publication, 1984, 14, 149-165. | 1.3 | 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. | 2.1 | 29 |
| 107 | Transpression. Journal of Structural Geology, 1984, 6, 449-458. | 2.3 | 802 |
| 108 | Models of strain variation in nappes and thrust sheets: A review. Tectonophysics, 1982, 88, 201-233. | 2.2 | 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. | 2.2 | 43 |
| 110 | Analysis of three-dimensional strain modified uniform distributions: andalusite fabrics from a granite aureole. Journal of Structural Geology, 1981, 3, 109-116. | 2.3 | 58 |
| 111 | Deformation studies in the Irish Caledonides. Journal of the Geological Society, 1980, 137, 289-302. | 2.1 | 84 |
| 112 | Deformation in the Caledonides of England, Ireland and Scotland. Geological Society Special Publication, 1979, 8, 163-186. | 1.3 | 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. | 2.3 | 88 |
| 114 | The analysis of finite strain using lines with an initial random orientation. Tectonophysics, 1977, 43, 199-211. | 2.2 | 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. | 2.2 | 64 |
| 117 | The determination of compactional strains using quasi-cylindrical objects. Tectonophysics, 1976, 30, T25-T32. | 2.2 | 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. | 1.5 | 2 |
| 119 | Major early folds at the southern margin of the Culm synclinorium. Journal of the Geological Society, 1975, 131, 337-352. | 2.1 | 18 |
| 120 | The magnetic susceptibility anisotropy of deformed rocks from North Cornwall, England. Tectonophysics, 1975, 27, 141-153. | 2.2 | 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. | 1.4 | 23 |
| 123 | The development of fold axes oblique to the regional trend. Tectonophysics, 1973, 16, 55-70. | 2.2 | 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. | 2.1 | 52 |
| 125 | Some Inference Problems in Paleocurrent Studies. Journal of Sedimentary Research, 1973, Vol. 43, . | 1.6 | 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 |

| # | Article | IF | CITATIONS |
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| 127 | The intrusive form of some basalt dykes showing flow lineation. Geological Magazine, 1971, 108, 489-499. | 1.5 | 9 |
| 128 | The Highland Border Ridge of North-east Ireland. Geological Magazine, 1970, 107, 531-538. | 1.5 | 3 |