

Ken J W Mccaffrey

List of Publications by Year in descending order

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124
papers

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81900

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138
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138
times ranked

4260
citing authors

#	ARTICLE	IF	CITATIONS
1	New onshore insights into the role of structural inheritance during Mesozoic opening of the Inner Moray Firth Basin, Scotland. <i>Journal of the Geological Society</i> , 2022, 179, .	2.1	8
2	Correlating deformation events onshore and offshore in superimposed rift basins: The Lossiemouth Fault Zone, Inner Moray Firth Basin, Scotland. <i>Basin Research</i> , 2022, 34, 1314-1340.	2.7	8
3	The structural evolution of pull-apart basins in response to changes in plate motion. <i>Basin Research</i> , 2021, 33, 1603-1625.	2.7	14
4	Outcrop-scale manifestations of reactivation during multiple superimposed rifting and basin inversion events: the Devonian Orcadian Basin, northern Scotland. <i>Journal of the Geological Society</i> , 2021, 178, jgs2020-089.	2.1	7
5	Determining Histories of Slip on Normal Faults With Bedrock Scarps Using Cosmogenic Nuclide Exposure Data. <i>Tectonics</i> , 2021, 40, e2020TC006457.	2.8	17
6	Analysis of deformation bands associated with the Trachyte Mesa intrusion, Henry Mountains, Utah: implications for reservoir connectivity and fluid flow around sill intrusions. <i>Solid Earth</i> , 2021, 12, 95-117.	2.8	8
7	Complex geometry and kinematics of subsidiary faults within a carbonate-hosted relay ramp. <i>Journal of Structural Geology</i> , 2020, 130, 103915.	2.3	17
8	The Iceland Microcontinent and a continental Greenland-Iceland-Faroe Ridge. <i>Earth-Science Reviews</i> , 2020, 206, 102926.	9.1	42
9	The nature and age of basement host rocks and fissure fills in the Lancaster field fractured reservoir, West of Shetland. <i>Journal of the Geological Society</i> , 2020, 177, 1057-1073.	2.1	26
10	Fracture attribute and topology characteristics of a geothermal reservoir: Southern Negros, Philippines. <i>Journal of the Geological Society</i> , 2020, 177, 1092-1106.	2.1	7
11	The impact of oblique inheritance and changes in relative plate motion on the development of rift-transform systems. <i>Earth and Planetary Science Letters</i> , 2020, 541, 116277.	4.4	10
12	Lithological and structural control on fracture frequency distribution within a carbonate-hosted relay ramp. <i>Journal of Structural Geology</i> , 2020, 137, 104085.	2.3	10
13	Basement reservoir plumbing: fracture aperture, length and topology analysis of the Lewisian Complex, NW Scotland. <i>Journal of the Geological Society</i> , 2020, 177, 1281-1293.	2.1	20
14	Upper Plate Stress Controls the Distribution of Mariana Arc Volcanoes. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB017391.	3.4	9
15	The Humbly Grove, Herriard and Hester's Copse fields, UK Onshore. <i>Geological Society Memoir</i> , 2020, 52, 74-81.	1.7	3
16	Fracture attribute scaling and connectivity in the Devonian Orcadian Basin with implications for geologically equivalent sub-surface fractured reservoirs. <i>Solid Earth</i> , 2020, 11, 2221-2244.	2.8	14
17	Segmentation of Rifts Through Structural Inheritance: Creation of the Davis Strait. <i>Tectonics</i> , 2019, 38, 2411-2430.	2.8	41
18	Terrane Boundary Reactivation, Barriers to Lateral Fault Propagation and Reactivated Fabrics: Rifting Across the Median Batholith Zone, Great South Basin, New Zealand. <i>Tectonics</i> , 2019, 38, 4027-4053.	2.8	24

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19	Natural fracture propping and earthquake-induced oil migration in fractured basement reservoirs. <i>Geology</i> , 2019, 47, 700-704.	4.4	54
20	Analogue Modeling of Plate Rotation Effects in Transform Margins and Riftâ€”Transform Intersections. <i>Tectonics</i> , 2019, 38, 823-841.	2.8	15
21	Fifty years of the Wilson Cycle concept in plate tectonics: an overview. <i>Geological Society Special Publication</i> , 2019, 470, 1-17.	1.3	60
22	Partitioned Offâ€”Fault Deformation in the 2016 Norcia Earthquake Captured by Differential Terrestrial Laser Scanning. <i>Geophysical Research Letters</i> , 2019, 46, 3199-3205.	4.0	13
23	Magma-driven accommodation structures formed during sill emplacement at shallow crustal depths: The Maiden Creek sill, Henry Mountains, Utah. , 2019, 15, 1368-1392.		4
24	Andean surface uplift constrained by radiogenic isotopes of arc lavas. <i>Nature Communications</i> , 2018, 9, 969.	12.8	34
25	A database of the coseismic effects following the 30 October 2016 Norcia earthquake in Central Italy. <i>Scientific Data</i> , 2018, 5, 180049.	5.3	89
26	The role of preâ€”existing structures during rifting, continental breakup and transform system development, offshore West Greenland. <i>Basin Research</i> , 2018, 30, 373-394.	2.7	67
27	Tectonic Evolution of the Southern Negros Geothermal Field and Implications for the Development of Fractured Geothermal Systems. <i>Geofluids</i> , 2018, 2018, 1-20.	0.7	3
28	Surface ruptures following the 30 October 2016 <i>M</i> _w 6.5 Norcia earthquake, central Italy. <i>Journal of Maps</i> , 2018, 14, 151-160.	2.0	121
29	Dual control of fault intersections on stop-start rupture in the 2016 Central Italy seismic sequence. <i>Earth and Planetary Science Letters</i> , 2018, 500, 1-14.	4.4	100
30	Evidence for Basement Reactivation during the Opening of the Labrador Sea from the Makkovik Province, Labrador, Canada: Insights from Field Data and Numerical Models. <i>Geosciences (Switzerland)</i> , 2018, 8, 308.	2.2	22
31	Geometric Scaling of Tabular Igneous Intrusions: Implications for and. <i>Advances in Volcanology</i> , 2018, , 11-38.	1.1	1
32	Quantifying the influence of sill intrusion on the thermal evolution of organicâ€”rich sedimentary rocks in nonvolcanic passive margins: an example from <i>ODP</i> 210â€”1276, offshore Newfoundland, Canada. <i>Basin Research</i> , 2017, 29, 249-265.	2.7	31
33	Basin evolution and destruction in an Early Proterozoic continental margin: the Rinkian foldâ€”thrust belt of central West Greenland. <i>Journal of the Geological Society</i> , 2017, 174, 453-467.	2.1	31
34	Geometric Scaling of Tabular Igneous Intrusions: Implications for Emplacement and Growth. <i>Advances in Volcanology</i> , 2017, , 11-38.	1.1	28
35	A 667-yr record of coseismic and interseismic Coulomb stress changes in central Italy reveals the role of fault interaction in controlling irregular earthquake recurrence intervals. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 5691-5711.	3.4	46
36	Orogen-scale uplift in the central Italian Apennines drives episodic behaviour of earthquake faults. <i>Scientific Reports</i> , 2017, 7, 44858.	3.3	90

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37	Igneous sills record far-field and near-field stress interactions during volcano construction: Isle of Mull, Scotland. <i>Earth and Planetary Science Letters</i> , 2017, 478, 159-174.	4.4	36
38	Evaluating roughness scaling properties of natural active fault surfaces by means of multi-view photogrammetry. <i>Tectonophysics</i> , 2017, 717, 599-606.	2.2	26
39	Near-field fault slip of the 2016 Vettore Mw 6.6 earthquake (Central Italy) measured using low-cost GNSS. <i>Scientific Reports</i> , 2017, 7, 4612.	3.3	63
40	Occurrence and development of folding related to normal faulting within a mechanically heterogeneous sedimentary sequence: a case study from Inner Moray Firth, UK. <i>Geological Society Special Publication</i> , 2017, 439, 373-394.	1.3	20
41	Evolution of Labrador Sea-Baffin Bay: Plate or Plume Processes?. <i>Geoscience Canada</i> , 2017, 44, 91-102.	0.8	25
42	Madagascar's escape from Africa: A high-resolution plate reconstruction for the Western Somali Basin and implications for supercontinent dispersal. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 5036-5055.	2.5	60
43	New structural and Re-Os geochronological evidence constraining the age of faulting and associated mineralization in the Devonian Orcadian Basin, Scotland. <i>Journal of the Geological Society</i> , 2016, 173, 457-473.	2.1	26
44	Deformation structures associated with the Trachyte Mesa intrusion, Henry Mountains, Utah: Implications for sill and laccolith emplacement mechanisms. <i>Journal of Structural Geology</i> , 2016, 87, 30-46.	2.3	54
45	Fault and fracture patterns in low porosity chalk and their potential influence on sub-surface fluid flow: A case study from Flamborough Head, UK. <i>Tectonophysics</i> , 2016, 690, 35-51.	2.2	15
46	Active normal faulting during the 1997 seismic sequence in Colfiorito, Umbria: Did slip propagate to the surface?. <i>Journal of Structural Geology</i> , 2016, 91, 102-113.	2.3	25
47	An evaluation of Mesozoic rift-related magmatism on the margins of the Labrador Sea: Implications for rifting and passive margin asymmetry. , 2016, 12, 1701-1724.		32
48	A comparison of terrestrial laser scanning and structure-from-motion photogrammetry as methods for digital outcrop acquisition. , 2016, 12, 1865-1880.		65
49	Surface faulting during the August 24, 2016, Central Italy earthquake (Mw 6.0): preliminary results. <i>Annals of Geophysics</i> , 2016, 59, .	1.0	18
50	A new structural interpretation relating NW Libya to the Hun Graben, western Sirt Basin based on a new paleostress inversion. <i>Journal of Earth System Science</i> , 2015, 124, 1745-1763.	1.3	7
51	Tectonic history and structural development of the Zallah-Dur al Abd Sub-basin, western Sirt Basin, Libya. <i>Journal of Structural Geology</i> , 2015, 73, 33-48.	2.3	16
52	Styles, origins and implications of syndepositional deformation structures in Ediacaran microbial carbonates (Nama Basin, Namibia). <i>Geological Society Special Publication</i> , 2015, 418, 87-109.	1.3	4
53	3D characterization of fracture systems using Terrestrial Laser Scanning: an example from the Lewisian basement of NW Scotland. <i>Geological Society Special Publication</i> , 2015, 421, 125-141.	1.3	8
54	Slip distributions on active normal faults measured from LiDAR and field mapping of geomorphic offsets: an example from L'Aquila, Italy, and implications for modelling seismic moment release. <i>Geomorphology</i> , 2015, 237, 130-141.	2.6	66

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55	The tectonic geomorphology of bedrock scarps on active normal faults in the Italian Apennines mapped using combined ground penetrating radar and terrestrial laser scanning. <i>Geomorphology</i> , 2015, 237, 38-51.	2.6	50
56	Natural fractures in a United Kingdom shale reservoir analog, Cleveland Basin, northeast England. <i>AAPG Bulletin</i> , 2014, 98, 2411-2437.	1.5	26
57	Rift architecture and evolution: The Sirt Basin, Libya: The influence of basement fabrics and oblique tectonics. <i>Journal of African Earth Sciences</i> , 2014, 100, 203-226.	2.0	17
58	Linear volcanic segments in the central Sunda Arc, Indonesia, identified using Hough Transform analysis: Implications for arc lithosphere control upon volcano distribution. <i>Earth and Planetary Science Letters</i> , 2013, 369-370, 24-33.	4.4	16
59	Relationship between topography, rates of extension and mantle dynamics in the actively-extending Italian Apennines. <i>Earth and Planetary Science Letters</i> , 2012, 325-326, 76-84.	4.4	58
60	Distribution and magnitude of post-seismic deformation of the 2009 L'Aquila earthquake (M6.3) surface rupture measured using repeat terrestrial laser scanning. <i>Geophysical Journal International</i> , 2012, 189, 911-922.	2.4	7
61	Morphostructural patterns and landform generations in a glaciated passive margin: the Kobberrminebugt-Qaqortoq region of South Greenland. <i>Geodinamica Acta</i> , 2011, 24, 1-19.	2.2	7
62	Surface Faulting of the 6 April 2009 Mw 6.3 L'Aquila Earthquake in Central Italy. <i>Bulletin of the Seismological Society of America</i> , 2011, 101, 1507-1530.	2.3	64
63	Quantification of fold curvature and fracturing using terrestrial laser scanning. <i>AAPG Bulletin</i> , 2011, 95, 771-794.	1.5	35
64	Early Cenozoic saucer-shaped sills of the Faroe Islands: an example of intrusive styles in basaltic lava piles. <i>Journal of the Geological Society</i> , 2011, 168, 159-178.	2.1	37
65	Extending Digital Outcrop Geology into the Subsurface. , 2011, , 31-50.		7
66	Virtual fieldtrips for petroleum geoscientists. <i>Petroleum Geology Conference Proceedings</i> , 2010, 7, 19-26.	0.7	8
67	Recording and analyzing geospatially accurate structural data through "digital mapping" technique: A case study from the Canisp Shear Zone, NW Scotland. <i>Journal of the Geological Society of India</i> , 2010, 75, 43-59.	1.1	6
68	Shallow subsurface structure of the 2009 April 6 Mw 6.3 L'Aquila earthquake surface rupture at Paganica, investigated with ground-penetrating radar. <i>Geophysical Journal International</i> , 2010, 183, 774-790.	2.4	32
69	Basement-influenced rifting and basin development: a reappraisal of post-Caledonian faulting patterns from the North Coast Transfer Zone, Scotland. <i>Geological Society Special Publication</i> , 2010, 335, 795-826.	1.3	41
70	Partitioned postseismic deformation associated with the 2009 Mw 6.3 L'Aquila earthquake surface rupture measured using a terrestrial laser scanner. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	50
71	Quantitative analysis and visualization of nonplanar fault surfaces using terrestrial laser scanning (LIDAR)–The Arkitsa fault, central Greece, as a case study. , 2009, 5, 465-482.		25
72	The onset of the North Atlantic Igneous Province in a rifting perspective. <i>Geological Magazine</i> , 2009, 146, 309-325.	1.5	49

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73	The spatial heterogeneity of structures in high porosity sandstones: Variations and granularity effects in orientation data. <i>Journal of Structural Geology</i> , 2009, 31, 628-636.	2.3	11
74	Integration of regional to outcrop digital data: 3D visualisation of multi-scale geological models. <i>Computers and Geosciences</i> , 2009, 35, 4-18.	4.2	134
75	Three-dimensional (3D) visualisation: the application of terrestrial laser scanning in the investigation of historical Scottish farming townships. <i>Journal of Archaeological Science</i> , 2009, 36, 860-866.	2.4	36
76	Visualization of folding in marble outcrops, Connemara, western Ireland: An application of virtual outcrop technology. , 2008, 4, 588.		28
77	Calibration and validation of reservoir models: the importance of high resolution, quantitative outcrop analogues. <i>Geological Society Special Publication</i> , 2008, 309, 87-98.	1.3	23
78	Describing the dimensionality of geospatial data in the earth sciences—Recommendations for nomenclature. , 2008, 4, 354.		17
79	Introduction: Unlocking 3D earth systems—Harnessing new digital technologies to revolutionize multi-scale geological models. , 2007, 3, 406.		5
80	The structural evolution of dilational stepovers in regional transtensional zones. <i>Geological Society Special Publication</i> , 2007, 290, 433-445.	1.3	12
81	Geostatistical and multi-elemental analysis of soils to interpret land-use history in the Hebrides, Scotland. <i>Geoarchaeology - an International Journal</i> , 2007, 22, 391-415.	1.5	34
82	Scale invariant sheath folds in salt, sediments and shear zones. <i>Journal of Structural Geology</i> , 2007, 29, 1585-1604.	2.3	59
83	Unlocking 3-D earth systems—Harnessing new digital technologies to revolutionize multiscale geologic models. <i>GSA Today</i> , 2007, 17, 55.	2.0	0
84	Complex fault patterns, transtension and structural segmentation of the Lofoten Ridge, Norwegian margin: Using digital mapping to link onshore and offshore geology. <i>Tectonics</i> , 2006, 25, n/a-n/a.	2.8	37
85	Numerical analysis of fold curvature using data acquired by high-precision GPS. <i>Journal of Structural Geology</i> , 2006, 28, 1640-1646.	2.3	41
86	Unlocking Three-Dimensional Earth Systems—Harnessing New Digital Technologies to Revolutionize Multi-Scale Geologic Models. <i>GSA Today</i> , 2006, 16, 58.	2.0	0
87	Early Tertiary sinistral transpression and fault reactivation in the western VÅring Basin, Norwegian Sea: Implications for hydrocarbon exploration and pre-breakup deformation in ocean margin basins. <i>AAPG Bulletin</i> , 2005, 89, 1043-1069.	1.5	15
88	Partitioned transtension: an alternative to basin inversion models. <i>Journal of Structural Geology</i> , 2005, 27, 607-625.	2.3	76
89	Scale dependence, strain compatibility and heterogeneity of three-dimensional deformation during mountain building: a discussion. <i>Journal of Structural Geology</i> , 2005, 27, 1190-1204.	2.3	44
90	Mapping and analysing virtual outcrops. <i>Visual Geosciences</i> , 2005, 10, 13-19.	0.5	57

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91	The influence of lithology and pre-existing structures on reservoir-scale faulting patterns in transtensional rift zones. <i>Journal of the Geological Society</i> , 2005, 162, 471-480.	2.1	39
92	Unlocking the spatial dimension: digital technologies and the future of geoscience fieldwork. <i>Journal of the Geological Society</i> , 2005, 162, 927-938.	2.1	210
93	Putting the geology back into Earth models. <i>Eos</i> , 2005, 86, 461.	0.1	7
94	Vertical coupling and decoupling in the lithosphere. <i>Geological Society Special Publication</i> , 2004, 227, 1-7.	1.3	12
95	Digital field data acquisition: towards increased quantification of uncertainty during geological mapping. <i>Geological Society Special Publication</i> , 2004, 239, 43-56.	1.3	51
96	Attachment formation during partitioning of oblique convergence in the Ketilidian orogen, south Greenland. <i>Geological Society Special Publication</i> , 2004, 227, 231-248.	1.3	7
97	The anatomy and evolution of a transpressional imbricate zone, Southern Uplands, Scotland. <i>Journal of Structural Geology</i> , 2004, 26, 1341-1360.	2.3	49
98	Inclined transpression. <i>Journal of Structural Geology</i> , 2004, 26, 1531-1548.	2.3	191
99	Hydrocarbons in crystalline rocks: an introduction. <i>Geological Society Special Publication</i> , 2003, 214, 1-5.	1.3	42
100	Fracture formation and evolution in crystalline rocks: Insights from attribute analysis. <i>Geological Society Special Publication</i> , 2003, 214, 109-124.	1.3	16
101	Domainal deformation patterns and strain partitioning during transpression: an example from the Southern Uplands terrane, Scotland. <i>Journal of the Geological Society</i> , 2002, 159, 401-415.	2.1	70
102	Mid-crustal partitioning and attachment during oblique convergence in an arc system, Palaeoproterozoic Ketilidian orogen, southern Greenland. <i>Journal of the Geological Society</i> , 2002, 159, 247-261.	2.1	32
103	The Ketilidian orogen of South Greenland: geochronology, tectonics, magmatism, and fore-arc accretion during Palaeoproterozoic oblique convergence. <i>Canadian Journal of Earth Sciences</i> , 2002, 39, 765-793.	1.3	120
104	Growth of plutons by floor subsidence: implications for rates of emplacement, intrusion spacing and melt-extraction mechanisms. <i>Physics and Chemistry of the Earth</i> , 2001, 26, 303-315.	0.6	152
105	A quantitative study of the influence of pre-existing compositional and fabric heterogeneities upon fracture-zone development during basement reactivation. <i>Geological Society Special Publication</i> , 2001, 186, 195-211.	1.3	21
106	Granite magma formation, transport and emplacement in the Earth's crust. <i>Nature</i> , 2000, 408, 669-673.	27.8	714
107	Dave Johnston: an appreciation and bibliography. <i>Geological Society Special Publication</i> , 1999, 155, vii-viii.	1.3	1
108	Influence of layering on vein systematics in line samples. <i>Geological Society Special Publication</i> , 1999, 155, 35-56.	1.3	62

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109	Fractures, fluid flow and mineralization: an introduction. Geological Society Special Publication, 1999, 155, 1-6.	1.3	10
110	Synmagmatic deformation patterns in the Old Woman Mountains, SE California. Journal of Structural Geology, 1999, 21, 335-349.	2.3	33
111	Polyphase deformation and metamorphism in the Llyn Ogwen area of Snowdonia, North Wales. Journal of the Geological Society, 1999, 156, 11-14.	2.1	1
112	Controls on reactivation of a major fault zone: the Fair Head–Clew Bay line in Ireland. Journal of the Geological Society, 1997, 154, 129-133.	2.1	13
113	Are granitic intrusions scale invariant?. Journal of the Geological Society, 1997, 154, 1-4.	2.1	197
114	Fractal geometries of vein systems and the variation of scaling relationships with mechanism. Journal of Structural Geology, 1996, 18, 349-358.	2.3	91
115	Fractal analysis of a mineralised vein deposit: Curraghinalt gold deposit, County Tyrone. Mineralium Deposita, 1996, 31, 52.	4.1	46
116	Melt infiltration and advection in microdioritic enclaves. European Journal of Mineralogy, 1996, 8, 405-412.	1.3	20
117	Jurassic thrusting of Precambrian basement over Paleozoic cover in the Clipper Mountains, southeastern California. Special Paper of the Geological Society of America, 1995, , 375-392.	0.5	9
118	Magmatic and solid state deformation partitioning in the Ox Mountains granodiorite. Geological Magazine, 1994, 131, 639-652.	1.5	18
119	Igneous emplacement in a transpressive shear zone: Ox Mountains igneous complex. Journal of the Geological Society, 1992, 149, 221-235.	2.1	108
120	The role of solution in the formation of boudinage and transverse veins in carbonate rocks at Rheems, Pennsylvania. Bulletin of the Geological Society of America, 1991, 103, 1552-1563.	3.3	17
121	Igneous sills as a record of horizontal shortening: The San Rafael subvolcanic field, Utah. Bulletin of the Geological Society of America, 0, , B31671.1.	3.3	4
122	Faults and fractures in central West Greenland: onshore expression of continental break-up and sea-floor spreading in the Labrador – Baffin Bay Sea. Geological Survey of Denmark and Greenland Bulletin, 0, 11, 185-204.	2.0	18
123	New insights on the north-eastern part of the Ketilidian orogen in South-East Greenland. Geological Survey of Denmark and Greenland Bulletin, 0, 183, 23-33.	0.0	8
124	Ketilidian structure and the rapakivi suite between Lindenow Fjord and Kap Farvel, South-East Greenland. Geological Survey of Denmark and Greenland Bulletin, 0, 186, 50-59.	0.0	7