Randell A Stephenson

List of Publications by Year
in descending order

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Version: 2024-02-01

133	4,800	81900	114465
papers	citations	39 h-index	63 g-index

139	139	139	2925
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Review of the main Black Sea rifting phase in the Cretaceous and implications for the evolution of the Black Sea lithosphere. Journal of Geodynamics, 2022, 149, 101891.	1.6	4
2	Thermochronology of South America passive margin between Uruguay and southern Brazil: A lengthy and complex cooling history based on (Uâ€“Th)/He and fission tracks. Journal of South American Earth Sciences, 2021, 106, 103019.	1.4	6
3	Vp/Vs ratios in the ParnaÃba Basin from joint active-passive seismic analysis â€“ Implications for continental amalgamation and basin formation. Tectonophysics, 2021, 801, 228715.	2.2	1
4	An investigation of how intracratonic rifting is â€œseededâ€ Case study of the Late Devonian Dniepr-Donets Basin rift within the East European Craton. Precambrian Research, 2021, 362, 106305.	2.7	2
5	IAS: A New Novel Phase-Based Filter for Detection of Unexploded Ordnances. Remote Sensing, 2021, 13, 4345.	4.0	8
6	Structural inheritance in the North Atlantic. Earth-Science Reviews, 2020, 206, 102975.	9.1	60
7	The Iceland Microcontinent and a continental Greenland-Iceland-Faroe Ridge. Earth-Science Reviews, 2020, 206, 102926.	9.1	42
8	Basement morphology of the middle Benue Trough, Nigeria, revealed from analysis of high-resolution aeromagnetic data using grid-based operator methods. Journal of African Earth Sciences, 2020, 162, 103724.	2.0	10
9	Reply to: Thermal history solutions from thermochronology must be governed by geological relationships: A comment on Jess et al. (2019). Geomorphology, 2020, 360, 106971.	2.6	6
10	RomUkrSeis: Seismic model of the crust and upper mantle across the Eastern Carpathians â€“ From the Apuseni Mountains to the Ukrainian Shield. Tectonophysics, 2020, 794, 228620.	2.2	6
11	Seismic anisotropy of the Canadian High Arctic: Evidence from shear-wave splitting. Tectonophysics, 2020, 789, 228524.	2.2	3
12	Late Cretaceous-Cenozoic basin inversion and palaeostress fields in the North Atlantic-western Alpine-Tethys realm: Implications for intraplate tectonics. Earth-Science Reviews, 2020, 210, 103252.	9.1	22
13	Low-temperature thermochronology of the South Atlantic margin along Uruguay and its relation to tectonic events in West Gondwana. Tectonophysics, 2020, 784, 228439.	2.2	5
14	West Gondwana orogenies and Pangaea break-up: thermotectonic effects on the southernmost Mantiqueira Province, Brazil. Journal of the Geological Society, 2019, 176, 1056-1075.	2.1	10
15	Deformation driven by deep and distant structures: Influence of a mantle lithosphere suture in the Ouachita orogeny, southeastern United States. Geology, 2019, 47, 147-150.	4.4	9
16	Characterization of crustal structure by comparing reflectivity patterns of wide-angle and near vertical seismic data from the ParnaÃba Basin, Brazil. Geophysical Journal International, 2019, 218, 1652-1664.	2.4	4
17	Differential erosion of a Mesozoic rift flank: Establishing the source of topography across Karrat, central West Greenland. Geomorphology, 2019, 334, 138-150.	2.6	12
18	Pooled subsidence records from numerous wells reveal variations in pre-break-up rifting along the proximal domains of the Iberiaâ€“Newfoundland continental margins. Geological Magazine, 2019, 156, 1323-1333.	1.5	2

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19	The role of pre-existing Precambrian structures in the development of Rukwa Rift Basin, southwest Tanzania. Journal of African Earth Sciences, 2019, 150, 607-625.	2.0	16
20	Exploring the theory of plate tectonics: the role of mantle lithosphere structure. Geological Society Special Publication, 2019, 470, 137-155.	1.3	3
21	The source of topography across the Cumberland Peninsula, Baffin Island, Arctic Canada: differential exhumation of a North Atlantic rift flank. Journal of the Geological Society, 2019, 176, 1093-1106.	2.1	3
22	Structure of the crust and upper mantle beneath the ParnaÃba Basin, Brazil, from wide-angle reflectionâ€“refraction data. Geological Society Special Publication, 2018, 472, 67-82.	1.3	13
23	Integrated crustalâ€“geological cross-section of Ellesmere Island. Geological Society Special Publication, 2018, 460, 7-17.	1.3	10
24	Regional crustal architecture of Ellesmere Island, Arctic Canada. Geological Society Special Publication, 2018, 460, 19-32.	1.3	11
25	Evolution of the central West Greenland margin and the Nuussuaq Basin: Localised basin uplift along a stable continental margin proposed from thermochronological data. Basin Research, 2018, 30, 1230-1246.	2.7	18
26	DOBRE-2 WARR profile: the Earth's upper crust across Crimea between the Azov Massif and the northeastern Black Sea. Geological Society Special Publication, 2017, 428, 199-220.	1.3	13
27	Local tomography model of the northeastern Black Sea: intra-plate crustal underthrusting. Geological Society Special Publication, 2017, 428, 221-239.	1.3	12
28	Tectonic Evolution of the Eastern Black Sea and Caucasus: an introduction. Geological Society Special Publication, 2017, 428, 1-9.	1.3	14
29	Geological structure of the northern part of the Eastern Black Sea from regional seismic reflection data including the DOBRE-2 CDP profile. Geological Society Special Publication, 2017, 428, 307-321.	1.3	22
30	Lasting mantle scars lead to perennial plate tectonics. Nature Communications, 2016, 7, 11834.	12.8	58
31	Geological features of the northeastern Canadian Arctic margin revealed from analysis of potential field data. Tectonophysics, 2016, 691, 48-64.	2.2	14
32	The Canada Basin compared to the southwest South China Sea: Two marginal ocean basins with hyper-extended continent-ocean transitions. Tectonophysics, 2016, 691, 171-184.	2.2	12
33	Identifying mantle lithosphere inheritance in controlling intraplate orogenesis. Journal of Geophysical Research: Solid Earth, 2016, 121, 6966-6987.	3.4	18
34	The eastern Black Sea-Caucasus region during the Cretaceous: New evidence to constrain its tectonic evolution. Comptes Rendus - Geoscience, 2016, 348, 23-32.	1.2	67
35	The crustal structure of Ellesmere Island, Arctic Canadaâ€”teleseismic mapping across a remote intraplate orogenic belt. Geophysical Journal International, 2016, 204, 1579-1600.	2.4	16
36	A sub-crustal piercing point for North Atlantic reconstructions and tectonic implications. Geology, 2015, , G37245.1.	4.4	9

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37	Sedimentary geology of the middle Carboniferous of the Donbas region (Dniepr-Donets basin,) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.3	8
38	Intraplate orogenesis within accreted and scarred lithosphere: Example of the Eurekan Orogeny, Ellesmere Island. Tectonophysics, 2015, 664, 202-213.	2.2	14
39	Basin evolution in the Davis Strait area (West Greenland and conjugate East Baffin/Labrador passive) Tj ETQq1 1 0.784314 rgBT /Over evolution and petroleum systems. Bullentin of Canadian Petroleum Geology, 2014, 62, 311-329.	0.3	8
40	Nonâ€uniform hyperâ€extension in advance of seafloor spreading on the vietnam continental margin and the SW South China Sea. Basin Research, 2014, 26, 106-134.	2.7	33
41	Seismological evidence for a fossil subduction zone in the East Greenland Caledonides. Geology, 2014, 42, 311-314.	4.4	46
42	Using high-resolution aeromagnetic data to recognise and map intra-sedimentary volcanic rocks and geological structures across the Cretaceous middle Benue Trough, Nigeria. Journal of African Earth Sciences, 2014, 99, 625-636.	2.0	40
43	Arctic lithosphere â€" A review. Tectonophysics, 2014, 628, 1-25.	2.2	95
44	Deep controls on intraplate basin inversion. , 2014, , 257-274.		3
45	Seismic velocity model of the crust and upper mantle along profile PANCAKE across the Carpathians between the Pannonian Basin and the East European Craton. Tectonophysics, 2013, 608, 1049-1072.	2.2	51
46	Quantifying the mass transfer from mountain ranges to deposition in sedimentary basins: Source to sink studies in the Danube Basinâ€"Black Sea system. Global and Planetary Change, 2013, 103, 1-18.	3.5	49
47	Long-term exhumation of a Palaeoproterozoic orogen and the role of pre-existing heterogeneous thermal crustal properties: a fission-track study of SE Baffin Island. Journal of the Geological Society, 2013, 170, 877-891.	2.1	10
48	Gravity and magnetic modelling in the Vrancea Zone, south-eastern Carpathians: Redefinition of the edge of the East European Craton beneath the south-eastern Carpathians. Journal of Geodynamics, 2013, 71, 52-64.	1.6	19
49	Evolution of the west Greenland margin: offshore thermostratigraphic data and modelling. Journal of the Geological Society, 2012, 169, 515-530.	2.1	11
50	Effect of errors in the acquisition of deep seismic reflection data recorded in mountainous areas. , 2012, , .		0
51	Smallâ€scale convection at a continental backâ€arc to craton transition: Application to the southern Canadian Cordillera. Journal of Geophysical Research, 2012, 117, .	3.3	29
52	The Dniepr-Donets Basin. , 2012, , 420-441.		4
53	Scientific network to decipher crustal evolution of the Arctic. Eos, 2011, 92, 361-363.	0.1	5
54	Back-arc rifting initiated with a hot and wet continental lithosphere. Earth and Planetary Science Letters, 2011, 302, 172-184.	4.4	13

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55	Timing and mechanisms controlling evaporite diapirism on Ellef Ringnes Island, Canadian Arctic Archipelago. Basin Research, 2011, 23, 478-498.	2.7	22
56	Jurassic arc volcanism on Crimea (Ukraine): Implications for the paleo-subduction zone configuration of the Black Sea region. Lithos, 2010, 119, 412-426.	1.4	82
57	Cretaceousâ€“Neogene tectonic evolution of the northern margin of the Black Sea from seismic reflection data and tectonic subsidence analysis. Geological Society Special Publication, 2010, 340, 137-157.	1.3	35
58	Small-Scale Mantle Convection Produces Stratigraphic Sequences in Sedimentary Basins. Science, 2010, 329, 827-830.	12.6	74
59	The Black Sea back-arc basin: insights to its origin from geodynamic models of modern analogues. Geological Society Special Publication, 2010, 340, 11-21.	1.3	44
60	Modelling of compression and extension of the continental lithosphere: Towards rehabilitation of the necking-level model. Journal of Geodynamics, 2010, 50, 368-380.	1.6	5
61	Jurassicâ€“Cretaceous low paleolatitudes from the circum-Black Sea region (Crimea and Pontides) due to True Polar Wander. Earth and Planetary Science Letters, 2010, 296, 210-226.	4.4	27
62	New late Paleozoic paleopoles from the Donbas Foldbelt (Ukraine): Implications for the Pangea A vs. B controversy. Earth and Planetary Science Letters, 2010, 297, 18-33.	4.4	31
63	Late Cretaceous to Paleocene oroclinal bending in the central Pontides (Turkey). Tectonics, 2010, 29, n/a-n/a.	2.8	86
64	Sedimentary basin tectonics from the Black Sea and Caucasus to the Arabian Platform: introduction. Geological Society Special Publication, 2010, 340, 1-10.	1.3	25
65	Role of thermal refraction in localizing intraplate deformation in southeastern Ukraine. Nature Geoscience, 2009, 2, 290-293.	12.9	35
66	Aspects of geological knowledge for sustainable development in Africa: Women in African Geoscience. Journal of African Earth Sciences, 2009, 55, v-vii.	2.0	2
67	Change in tectonic force inferred from basin subsidence: Implications for the dynamical aspects of back-arc rifting in the western Mediterranean. Earth and Planetary Science Letters, 2009, 277, 174-183.	4.4	8
68	Architecture of the south-eastern Carpathians nappes and Focsani Basin (Romania) from 2D ray tracing of densely-spaced refraction data. Tectonophysics, 2009, 476, 512-527.	2.2	17
69	Potential role of strain hardening in the cessation of rifting at constant tectonic force. Journal of Geodynamics, 2009, 47, 47-62.	1.6	8
70	Delineating tectonic units beneath the Donbas Fold Belt using scale lengths estimated from DOBRE 2000/2001 deep reflection data. Journal of Geophysical Research, 2009, 114, .	3.3	9
71	Crustal structure of the Innuitian region of Arctic Canada and Greenland from gravity modelling: implications for the Palaeogene Eurekan orogen. Geophysical Journal International, 2008, 173, 1039-1063.	2.4	41
72	Baltica in the Cryogenian, 850â€“630Ma. Precambrian Research, 2008, 160, 46-65.	2.7	63

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73	The Southern Oklahoma and Dniepr-Donets aulacogens: A comparative analysis. Memoir of the Geological Society of America, 2007, , 127-143.	0.5	23
74	TOPO-EUROPE: The geoscience of coupled deep Earth-surface processes. Global and Planetary Change, 2007, 58, 1-118.	3.5	137
75	Dynamics of Mid-Palaeocene North Atlantic rifting linked with European intra-plate deformations. Nature, 2007, 450, 1071-1074.	27.8	92
76	The Vendian-Early Palaeozoic sedimentary basins of the East European Craton. Geological Society Memoir, 2006, 32, 449-462.	1.7	30
77	Implications of a visco-elastic model of the lithosphere for calculating yield strength envelopes. Journal of Geodynamics, 2006, 42, 12-27.	1.6	8
78	The evolution of the southern margin of Eastern Europe (Eastern European and Scythian platforms) from the Latest Precambrian- Early Palaeozoic to the Early Cretaceous. Geological Society Memoir, 2006, 32, 481-505.	1.7	64
79	The European lithosphere: an introduction. Geological Society Memoir, 2006, 32, 1-9.	1.7	31
80	The Mesozoic-Cenozoic tectonic evolution of the Greater Caucasus. Geological Society Memoir, 2006, 32, 277-289.	1.7	92
81	Near-vertical seismic reflection image using a novel acquisition technique across the Vrancea Zone and Foscani Basin, south-eastern Carpathians (Romania). Tectonophysics, 2005, 410, 293-309.	2.2	24
82	2.5D seismic velocity modelling in the south-eastern Romanian Carpathians Orogen and its foreland. Tectonophysics, 2005, 410, 273-291.	2.2	28
83	The40Ar/39Ar dating of magmatic activity in the Donbas Fold Belt and the Scythian Platform (Eastern) Tj ETQq1 1 0.784314 rgBT /Ov	2.8	28
84	Topography of the crustâ€“mantle boundary beneath the Black Sea Basin. Tectonophysics, 2004, 381, 211-233.	2.2	89
85	The evolution of the southern margin of the East European Craton based on seismic and potential field data. Tectonophysics, 2004, 381, 101-118.	2.2	24
86	Structure of the lithosphere below the southern margin of the East European Craton (Ukraine and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.2	28
87	The formation of the south-eastern part of the Dnieprâ€“Donets Basin: 2-D forward and reverse modelling taking into account post-rift redeposition of syn-rift salt. Sedimentary Geology, 2003, 156, 11-33.	2.1	16
88	Tectonic subsidence modelling of the Polish Basin in the light of new data on crustal structure and magnitude of inversion. Sedimentary Geology, 2003, 156, 59-70.	2.1	45
89	Paleostress field reconstruction and revised tectonic history of the Donbas fold and thrust belt (Ukraine and Russia). Tectonics, 2003, 22, n/a-n/a.	2.8	34
90	Crustal-scale pop-up structure in cratonic lithosphere: DOBRE deep seismic reflection study of the Donbas fold belt, Ukraine. Geology, 2003, 31, 733.	4.4	78

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91	Sequence stratigraphy and correlation of late Carboniferous and Permian in the CIS, Europe, Tethyan area, North Africa, Arabia, China, Gondwanaland and the USA. Palaeogeography, Palaeoclimatology, Palaeoecology, 2003, 196, 59-84.	2.3	56
92	â€œDOBREfraction'99â€â€”velocity model of the crust and upper mantle beneath the Donbas Foldbelt (East) Tj ETQq0 0 0 rgBT /Overlo	2.2	72
93	Structures associated with inversion of the Donbas Foldbelt (Ukraine and Russia). Tectonophysics, 2003, 373, 181-207.	2.2	27
94	Quantification of the control of sequences by tectonics and eustacy in the Dniepr-Donets Basin and on the Russian Platform during Carboniferous and Permian. Bulletin - Societie Geologique De France, 2003, 174, 93-100.	2.2	19
95	Pâ€“Tâ€“t modelling of Proterozoic terranes in Lithuania: geodynamic implications for accretion of southwestern Fennoscandia. Gff, 2003, 125, 201-211.	1.2	9
96	3-D flexural modelling of the Silurian Baltic Basin. Tectonophysics, 2002, 346, 115-135.	2.2	33
97	Style and timing of salt tectonics in the Dniepr-Donets Basin (Ukraine): implications for triggering and driving mechanisms of salt movement in sedimentary basins. Marine and Petroleum Geology, 2002, 19, 1169-1189.	3.3	33
98	The Donets Basin (Ukraine/Russia): coalification and thermal history. International Journal of Coal Geology, 2002, 49, 33-55.	5.0	20
99	Two-dimensional inverse modeling of sedimentary basin subsidence. Journal of Geophysical Research, 2001, 106, 6657-6671.	3.3	27
100	On the origin of the Southern Permian Basin, Central Europe. Marine and Petroleum Geology, 2000, 17, 43-59.	3.3	240
101	The pre-Permian residual gravity field for the Dutch onshore and adjacent offshore. Global and Planetary Change, 2000, 27, 53-66.	3.5	6
102	A new geodynamicalâ€“thermal model of rift evolution, with application to the Dnieperâ€“Donets Basin, Ukraine. Tectonophysics, 1999, 313, 29-40.	2.2	16
103	3-D gravity analysis of the Dniprâ€“Donets Basin and Donbas Foldbelt, Ukraine. Tectonophysics, 1999, 313, 41-58.	2.2	38
104	The Donbas Foldbelt: its relationships with the uninverted Donets segment of the Dniprâ€“Donets Basin, Ukraine. Tectonophysics, 1999, 313, 59-83.	2.2	63
105	Late Vendianâ€“Early PalÃ¦ozoic tectonic evolution of the Baltic Basin: regional tectonic implications from subsidence analysis. Tectonophysics, 1999, 314, 219-239.	2.2	163
106	Neotectonics seismicity in the south-eastern Beaufort Sea polar continental margin of north-western Canada. Journal of Geodynamics, 1998, 27, 175-190.	1.6	7
107	Mechanical stability of the Redbank Thrust Zone, Central Australia: Dynamic and rheological implications. Australian Journal of Earth Sciences, 1997, 44, 215-226.	1.0	18
108	Assumptions and observations in tectonic modelling of rift basins: some implications of thermo-isostasy, stress and rheology for intrabasinal structure. Marine and Petroleum Geology, 1996, 13, 437-445.	3.3	5

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109	Structural features and evolution of the Dniepr-Donets Basin, Ukraine, from regional seismic reflection profiles. Tectonophysics, 1996, 268, 127-147.	2.2	59
110	Reappraisal of deep seismic reflection Profile VIII across the Pripyat Trough. Tectonophysics, 1996, 268, 99-108.	2.2	18
111	Late Precambrian to Triassic history of the East European Craton: dynamics of sedimentary basin evolution. Tectonophysics, 1996, 268, 23-63.	2.2	330
112	The formation of the northwestern Dniepr-Donets Basin: 2-D forward and reverse syn-rift and post-rift modelling. Tectonophysics, 1996, 268, 237-255.	2.2	36
113	Syn-rift evolution of the Pripyat Trough: constraints from structural and stratigraphic modelling. Tectonophysics, 1996, 268, 221-236.	2.2	32
114	Tectonic variation in the Dniepr-Donets Basin from automated modelling of backstripped subsidence curves. Tectonophysics, 1996, 268, 257-280.	2.2	59
115	Implications of tectonic subsidence models for crustal structure beneath the Mid-Polish Trough. Studia Geophysica Et Geodaetica, 1995, 39, 289-297.	0.5	5
116	Quantitative modelling of basin and rheological evolution of the Iberian Basin (Central Spain): implications for lithospheric dynamics of intraplate extension and inversion. Tectonophysics, 1995, 252, 163-178.	2.2	51
117	Tectonic evolution of the Mid-Polish Trough: modelling implications and significance for central European geology. Tectonophysics, 1995, 252, 179-195.	2.2	158
118	Crustal structure and tectonics of the southeastern Beaufort Sea continental margin. Tectonics, 1994, 13, 389-400.	2.8	37
119	Continental rift development in Precambrian and Phanerozoic Europe: EUROPROBE and the Dnieper-Donets Rift and Polish Trough basins. Sedimentary Geology, 1993, 86, 159-175.	2.1	49
120	Stresses in the lithosphere and sedimentary basin formation. Tectonophysics, 1993, 226, 1-13.	2.2	47
121	Preface: Crustal controls on the internal architecture of sedimentary basins. Tectonophysics, 1993, 228, vii-viii.	2.2	2
122	Relation between salt diapirism and the tectonic history of the Sverdrup Basin, Arctic Canada. Canadian Journal of Earth Sciences, 1992, 29, 2695-2705.	1.3	31
123	Subsidence analysis and modelling of the Roer Valley Graben (SE Netherlands). Tectonophysics, 1992, 208, 159-171.	2.2	60
124	Flexural interaction and the dynamics of neogene extensional Basin formation in the Alboran-Betic region. Geo-Marine Letters, 1992, 12, 66-75.	1.1	69
125	Some examples and mechanical aspects of continental lithospheric folding. Tectonophysics, 1991, 188, 27-37.	2.2	100
126	Bouguer gravity anomalies and speculations on the regional crustal structure of the Eurekan Orogen, Arctic Canada. Marine Geology, 1990, 93, 401-420.	2.1	14

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127	Crustal structure of the Canadian polar margin: results of the 1985 seismic refraction survey. Canadian Journal of Earth Sciences, 1989, 26, 853-866.	1.3	22
128	The postâ€Palaeozoic uplift history of southâ€eastern Australia. Australian Journal of Earth Sciences, 1986, 33, 253-270.	1.0	64
129	Erosion-isostatic rebound models for uplift: an application to south-eastern Australia. Geophysical Journal International, 1985, 82, 31-55.	2.4	68
130	Isostatic response of the lithosphere with inâ€plane stress: Application to central Australia. Journal of Geophysical Research, 1985, 90, 8581-8588.	3.3	71
131	Postâ€orogenic evolution of a mountain range: Southâ€eastern Australian Highlands. Geophysical Research Letters, 1985, 12, 801-804.	4.0	8
132	Flexural models of continental lithosphere based on the long-term erosional decay of topography. Geophysical Journal International, 1984, 77, 385-413.	2.4	49
133	Three-dimensional gravity analysis of the Kiglapait layered intrusion, Labrador. Canadian Journal of Earth Sciences, 1979, 16, 24-37.	1.3	11