

Rob Westaway

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,516
citations

218381

26
h-index

197535

49
g-index

64
all docs

64
docs citations

64
times ranked

1903
citing authors

#	ARTICLE	IF	CITATIONS
1	The November 2017 M_w 5.5 Pohang earthquake: A possible case of induced seismicity in South Korea. <i>Science</i> , 2018, 360, 1003-1006.	6.0	325
2	Flow in the lower continental crust as a mechanism for the Quaternary uplift of south-east England: constraints from the Thames terrace record. <i>Quaternary Science Reviews</i> , 2002, 21, 559-603.	1.4	152
3	The Quaternary uplift history of central southern England: evidence from the terraces of the Solent River system and nearby raised beaches. <i>Quaternary Science Reviews</i> , 2006, 25, 2212-2250.	1.4	146
4	The Quaternary evolution of the Gulf of Corinth, central Greece: coupling between surface processes and flow in the lower continental crust. <i>Tectonophysics</i> , 2002, 348, 269-318.	0.9	124
5	Pliocene and Quaternary regional uplift in western Turkey: the Gediz River terrace staircase and the volcanism at Kula. <i>Tectonophysics</i> , 2004, 391, 121-169.	0.9	119
6	Subsidence in the super-deep Pattani and Malay basins of Southeast Asia: a coupled model incorporating lower-crustal flow in response to post-rift sediment loading. <i>Basin Research</i> , 2006, 18, 51-84.	1.3	110
7	Quaternary fluvial archives and landscape evolution: a global synthesis. <i>Proceedings of the Geologists Association</i> , 2014, 125, 600-629.	0.6	109
8	Fluvial sequences as evidence for landscape and climatic evolution in the Late Cenozoic: A synthesis of data from IGCP 518. <i>Global and Planetary Change</i> , 2009, 68, 237-253.	1.6	98
9	First field application of cyclic soft stimulation at the Pohang Enhanced Geothermal System site in Korea. <i>Geophysical Journal International</i> , 2019, 217, 926-949.	1.0	90
10	The Palaeolithic occupation of Europe as revealed by evidence from the rivers: data from IGCP 449. <i>Journal of Quaternary Science</i> , 2006, 21, 437-455.	1.1	85
11	Dependence of active normal fault dips on lower-crustal flow regimes. <i>Journal of the Geological Society</i> , 1998, 155, 233-253.	0.9	70
12	Fault and bed rotation during continental extension: block rotation or vertical shear?. <i>Journal of Structural Geology</i> , 1993, 15, 753-770.	1.0	69
13	Quaternary vertical crustal motion and drainage evolution in East Anglia and adjoining parts of southern England: chronology of the Ingham River terrace deposits. <i>Boreas</i> , 2009, 38, 261-284.	1.2	65
14	Constraints on the timing and regional conditions at the start of the present phase of crustal extension in western Turkey, from observations in and around the Denizli region. <i>Geodynamica Acta</i> , 2005, 18, 209-238.	2.2	64
15	Ar-Ar dating of late Cenozoic basaltic volcanism in northern Syria: Implications for the history of incision by the River Euphrates and uplift of the northern Arabian Platform. <i>Tectonics</i> , 2007, 26, n/a-n/a.	1.3	62
16	Geomorphological consequences of weak lower continental crust, and its significance for studies of uplift, landscape evolution, and the interpretation of river terrace sequences. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2002, 81, 283-303.	0.6	61
17	Quaternary uplift of northern England. <i>Global and Planetary Change</i> , 2009, 68, 357-382.	1.6	53
18	Evidence from the Trent terrace archive, Lincolnshire, UK, for lowland glaciation of Britain during the Middle and Late Pleistocene. <i>Proceedings of the Geologists Association</i> , 2010, 121, 141-153.	0.6	52

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19	Late Cenozoic surface uplift, basaltic volcanism, and incision by the River Tigris around Diyarbakır, SE Turkey. <i>International Journal of Earth Sciences</i> , 2009, 98, 601-625.	0.9	45
20	Dating Quaternary volcanism and incision by the River Tigris at Diyarbakır, southeast Turkey. <i>Journal of Quaternary Science</i> , 2007, 22, 387-393.	1.1	41
21	Accounting for palaeoclimate and topography: A rigorous approach to correction of the British geothermal dataset. <i>Geothermics</i> , 2013, 48, 31-51.	1.5	39
22	Quantification of potential macroseismic effects of the induced seismicity that might result from hydraulic fracturing for shale gas exploitation in the UK. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2014, 47, 333-350.	0.8	37
23	Cenozoic uplift of southwest England. <i>Journal of Quaternary Science</i> , 2010, 25, 419-432.	1.1	35
24	Causes, consequences and chronology of large-magnitude palaeoflows in Middle and Late Pleistocene river systems of northwest Europe. <i>Earth Surface Processes and Landforms</i> , 2010, 35, 1071-1094.	1.2	30
25	The importance of heating duration for Raman CM thermometry: evidence from contact metamorphism around the Great Whin Sill intrusion, UK. <i>Journal of Metamorphic Geology</i> , 2017, 35, 165-180.	1.6	30
26	Keeping warm: a review of deep geothermal potential of the UK. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2018, 232, 115-126.	0.8	29
27	Evidence for late Middle Pleistocene glaciation of the British margin of the southern North Sea. <i>Journal of Quaternary Science</i> , 2017, 32, 261-275.	1.1	27
28	Improved modelling of the Quaternary evolution of the Gulf of Corinth, incorporating erosion and sedimentation coupled by lower-crustal flow. <i>Tectonophysics</i> , 2007, 440, 67-84.	0.9	26
29	Investigation of coupling between surface processes and induced flow in the lower continental crust as a cause of intraplate seismicity. <i>Earth Surface Processes and Landforms</i> , 2006, 31, 1480-1509.	1.2	25
30	Unravelling the relative contributions of climate change and ground disturbance to subsurface temperature perturbations: Case studies from Tyneside, UK. <i>Geothermics</i> , 2016, 64, 490-515.	1.5	22
31	Repurposing Hydrocarbon Wells for Geothermal Use in the UK: The Onshore Fields with the Greatest Potential. <i>Energies</i> , 2020, 13, 3541.	1.6	22
32	Cenozoic cooling and denudation in the North Pennines (northern England, UK) constrained by apatite fission-track analysis of cuttings from the Eastgate Borehole. <i>Proceedings of the Geologists Association</i> , 2012, 123, 450-463.	0.6	21
33	Relation between alternations of uplift and subsidence revealed by Late Cenozoic fluvial sequences and physical properties of the continental crust. <i>Boreas</i> , 2014, 43, 505-527.	1.2	21
34	Isostatic compensation of Quaternary vertical crustal motions: coupling between uplift of Britain and subsidence beneath the North Sea. <i>Journal of Quaternary Science</i> , 2017, 32, 169-182.	1.1	20
35	The use of fluvial archives in reconstructing landscape evolution: the value of sedimentary and morphostratigraphical evidence. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2012, 91, 5-24.	0.6	19
36	Fault Corrosion by Fluid Injection: A Potential Cause of the November 2017 $M=5.5$ Korean Earthquake. <i>Geofluids</i> , 2019, 2019, 1-23.	0.3	18

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37	Deep Geothermal Single Well heat production: critical appraisal under UK conditions. Quarterly Journal of Engineering Geology and Hydrogeology, 2018, 51, 424-449.	0.8	18
38	The Pleistocene terrace staircase of the River Thames, central-southern England, and its significance for regional stratigraphic correlation, drainage development, and vertical crustal motions. Proceedings of the Geologists Association, 2011, 122, 92-112.	0.6	17
39	The importance of characterizing uncertainty in controversial geoscience applications: induced seismicity associated with hydraulic fracturing for shale gas in northwest England. Proceedings of the Geologists Association, 2016, 127, 1-17.	0.6	15
40	The use of uplift modelling in the reconstruction of drainage development and landscape evolution in the repeatedly glaciated Trent catchment, English Midlands, UK. Proceedings of the Geologists Association, 2015, 126, 480-521.	0.6	13
41	Subsurface absorption of anthropogenic warming of the land surface: The case of the world's largest brickworks (Stewartby, Bedfordshire, UK). Science of the Total Environment, 2015, 508, 585-603.	3.9	13
42	Improved age constraint for pre- and post-Anglian temperate stage deposits in north Norfolk, UK, from analysis of serine decomposition in Bithynia opercula. Journal of Quaternary Science, 2010, 25, 715-723.	1.1	10
43	Seasonal Seismicity of Northern California Before the Great 1906 Earthquake. , 2002, 159, 7-62.		9
44	Borehole temperature log from the Glasgow Geothermal Energy Research Field Site: a record of past changes to ground surface temperature caused by urban development. Scottish Journal of Geology, 2020, 56, 134-152.	0.1	9
45	Rapid water-rock interactions evidenced by hydrochemical evolution of flowback fluid during hydraulic stimulation of a deep geothermal borehole in granodiorite: Pohang, Korea. Applied Geochemistry, 2019, 111, 104445.	1.4	8
46	Digging deeper: The influence of historical mining on Glasgow's subsurface thermal state to inform geothermal research. Scottish Journal of Geology, 2019, 55, 107-123.	0.1	7
47	Repurposing of disused shale gas wells for subsurface heat storage: preliminary analysis concerning UK issues. Quarterly Journal of Engineering Geology and Hydrogeology, 2016, 49, 213-227.	0.8	6
48	Integrating induced seismicity with rock mechanics: a conceptual model for the 2011 Preese Hall fracture development and induced seismicity. Geological Society Special Publication, 2017, 454, 327-359.	0.8	6
49	The Influence of Crustal Properties on Patterns of Quaternary Fluvial Stratigraphy in Eurasia. Quaternary, 2018, 1, 28.	1.0	5
50	Drainage evolution in the Polish Sudeten Foreland in the context of European fluvial archives. Quaternary Research, 2019, 91, 493-519.	1.0	3
51	Late Cenozoic uplift history of the Peak District, central England, inferred from dated cave deposits and integrated with regional drainage development: A review and synthesis. Quaternary International, 2020, 546, 20-41.	0.7	3
52	Extrapolation of populations of small earthquakes to predict consequences of low-probability high impact events: The Pohang case study revisited. Geothermics, 2021, 92, 102035.	1.5	3
53	Permeability and Mineralogy of the Ášjfalú Formation, Hungary, from Production Tests and Experimental Rock Characterization: Implications for Geothermal Heat Projects. Energies, 2021, 14, 4332.	1.6	3
54	Reply to comments by F.S. Busschers, K.M. Cohen, J. Vandenberghe, R.T. Van Balen, C. Kasse, J. Wallinga, and H.J.T Weerts on 'Causes, consequences and chronology of large-magnitude palaeoflows in Middle and Late Pleistocene river systems of northwest Europe', by Rob Westaway and David R. Bridgland (2010). Earth Surface Processes and Landforms, 2011, 36, 1841-1846.	1.2	2

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55	Sulphur isotopes in deep groundwater reservoirs: Evidence from post-stimulation flowback at the Pohang geothermal facility, Korea. <i>Geothermics</i> , 2021, 91, 102003.	1.5	2
56	How local crustal properties influence the amount of denudation derived from low-temperature: COMMENT. <i>Geology</i> , 2018, 46, e438-e438.	2.0	1
57	Reply to comments by S. Toucanne, S. Zaragosi, F. Eynaud, J. F. Bourillet, G. Lericolais and P. L. Gibbard on "Causes, consequences and chronology of large-magnitude palaeoflows in Middle and Late Pleistocene river systems of northwest Europe", by Rob Westaway and David R. Bridgland (). <i>Earth Surface Processes and Landforms</i> , 2011, 36, 1414-1418.	1.2	0
58	Exponential trends in flowback chemistry from a hydraulically stimulated deep geothermal borehole in granite; Pohang, South Korea. <i>E3S Web of Conferences</i> , 2019, 98, 08001.	0.2	0
59	Reply to Comment by Alison A. Monaghan, David A.C. Manning, and Zoe K. Shipton on "Repurposing Hydrocarbon Wells for Geothermal Use in the UK: The Onshore Fields with the Greatest Potential, by Watson et al. (2020)". <i>Energies</i> , 2020, 13, 6382.	1.6	0
60	Reply to discussion on "Borehole temperature log from the Glasgow Geothermal Energy Research Field Site: a record of past changes to ground surface temperature caused by urban development" by Watson and Westaway 2020 (<i>SJG</i> , 56, 134-152). <i>Scottish Journal of Geology</i> , 2021, 57, sjg2020-031.	0.1	0