

Jane K Hart

List of Publications by Year in descending order

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73
papers

3,452
citations

186265

28
h-index

138484

58
g-index

78
all docs

78
docs citations

78
times ranked

1938
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental Sensor Networks: A revolution in the earth system science?. <i>Earth-Science Reviews</i> , 2006, 78, 177-191.	9.1	572
2	Environmental sensor networks. <i>Computer</i> , 2004, 37, 50-56.	1.1	335
3	The interrelation of glaciotectonic and glaciodepositional processes within the glacial environment. <i>Quaternary Science Reviews</i> , 1991, 10, 335-350.	3.0	286
4	Till and moraine emplacement in a deforming bed surge " an example from a marine environment. <i>Quaternary Science Reviews</i> , 1996, 15, 961-987.	3.0	154
5	Till fabric associated with deformable beds. <i>Earth Surface Processes and Landforms</i> , 1994, 19, 15-32.	2.5	151
6	The sedimentary and structural evolution of a recent push moraine complex: Holmstråmbreen, Spitsbergen. <i>Quaternary Science Reviews</i> , 1999, 18, 339-371.	3.0	149
7	Styles of subglacial glaciotectonic deformation within the context of the anglian ice-sheet. <i>Earth Surface Processes and Landforms</i> , 1990, 15, 227-241.	2.5	142
8	Criteria to distinguish between subglacial glaciotectonic and glaciomarine sedimentation, I. Deformation styles and sedimentology. <i>Sedimentary Geology</i> , 1994, 91, 191-213.	2.1	140
9	Subglacial erosion, deposition and deformation associated with deformable beds. <i>Progress in Physical Geography</i> , 1995, 19, 173-191.	3.2	117
10	The relationship between drumlins and other forms of subglacial glaciotectonic deformation. <i>Quaternary Science Reviews</i> , 1997, 16, 93-107.	3.0	86
11	The deforming bed characteristics of a stratified till assemblage in north East Anglia, UK: investigating controls on sediment rheology and strain signatures. <i>Quaternary Science Reviews</i> , 2005, 24, 123-140.	3.0	85
12	Proglacial glaciotectonic deformation and the origin of the Cromer Ridge push moraine complex, North Norfolk, England. <i>Boreas</i> , 1990, 19, 165-180.	2.4	83
13	Identifying fast ice flow from landform assemblages in the geological record: a discussion. <i>Annals of Glaciology</i> , 1999, 28, 59-66.	1.4	74
14	Approaches to the study of glacier bed deformation. <i>Quaternary International</i> , 2001, 86, 45-58.	1.5	65
15	Stratigraphy and glaciotectonic structures of permafrost deformed beneath the northwest margin of the Laurentide ice sheet, Tuktoyaktuk Coastlands, Canada. <i>Journal of Glaciology</i> , 2004, 50, 399-412.	2.2	58
16	An investigation of subglacial processes at the microscale from Briksdalsbreen, Norway. <i>Sedimentology</i> , 2006, 53, 125-146.	3.1	52
17	A comparison of the styles of deformation associated with two recent push moraines, South Van Keulenfjorden, Svalbard. <i>Earth Surface Processes and Landforms</i> , 1997, 22, 1089-1107.	2.5	47
18	Toward an environmental Internet of Things. <i>Earth and Space Science</i> , 2015, 2, 194-200.	2.6	43

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19	The deforming bed/debris-rich basal ice continuum and its implications for the formation of glacial landforms (flutes) and sediments (melt-out till). <i>Quaternary Science Reviews</i> , 1998, 17, 737-754.	3.0	42
20	Recent drumlins, flutes and lineations at Vestari-Hagafellsjökull, Iceland. <i>Journal of Glaciology</i> , 1995, 41, 596-606.	2.2	41
21	The influence of tectonic deformation on facies variability in stratified debris-rich basal ice. <i>Quaternary Science Reviews</i> , 2000, 19, 775-786.	3.0	39
22	Subglacial clast behaviour and its implication for till fabric development: new results derived from wireless subglacial probe experiments. <i>Quaternary Science Reviews</i> , 2009, 28, 597-607.	3.0	38
23	Image analysis techniques to estimate river discharge using time-lapse cameras in remote locations. <i>Computers and Geosciences</i> , 2015, 76, 1-10.	4.2	36
24	An investigation of the deforming layer/debris-rich basal-ice continuum, illustrated from three Alaskan glaciers. <i>Journal of Glaciology</i> , 1995, 41, 619-633.	2.2	35
25	Subglacial deformation associated with fast ice flow, from the Columbia Glacier, Alaska. <i>Sedimentary Geology</i> , 1997, 111, 177-197.	2.1	34
26	A wireless multi-sensor subglacial probe: design and preliminary results. <i>Journal of Glaciology</i> , 2006, 52, 389-397.	2.2	32
27	Drumlin formation in Southern Anglesey and Arvon, Northwest Wales. <i>Journal of Quaternary Science</i> , 1995, 10, 3-14.	2.1	31
28	Micromorphological analysis of polyphase deformation associated with the transport and emplacement of glaciotectonic rafts at West Runton, north Norfolk, UK. <i>Boreas</i> , 2013, 42, 376-394.	2.4	31
29	Subglacial till behaviour derived from in situ wireless multi-sensor subglacial probes: Rheology, hydro-mechanical interactions and till formation. <i>Quaternary Science Reviews</i> , 2011, 30, 234-247.	3.0	27
30	An investigation of subglacial shear zone processes from Weybourne, Norfolk, UK. <i>Quaternary Science Reviews</i> , 2007, 26, 2354-2374.	3.0	26
31	Subglacial comminution in the deforming bed: Inferences from SEM analysis. <i>Sedimentary Geology</i> , 2008, 203, 87-97.	2.1	26
32	The effect of grain texture on the occurrence of microstructural properties in subglacial till. <i>Quaternary Science Reviews</i> , 2004, 23, 2501-2512.	3.0	25
33	Sedimentary environments associated with Glacial Lake Trimmingham, Norfolk, UK. <i>Boreas</i> , 1992, 21, 119-136.	2.4	25
34	Athabasca Glacier, Canada - a field example of subglacial ice and till erosion?. <i>Earth Surface Processes and Landforms</i> , 2006, 31, 65-80.	2.5	24
35	Deploying a Wireless Sensor Network in Iceland. <i>Lecture Notes in Computer Science</i> , 2009, , 131-137.	1.3	24
36	Proglacial glaciotectonic deformation at Melabakkarásbakkur, west Iceland. <i>Boreas</i> , 1994, 23, 112-121.	2.4	23

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37	Englacial and subglacial water flow at Skjálafellsjökull, Iceland derived from ground penetrating radar, in situ Glacsweb probe and borehole water level measurements. <i>Earth Surface Processes and Landforms</i> , 2015, 40, 2071-2083.	2.5	21
38	Proglacial glaciotectionic deformation associated with glaciolacustrine sedimentation, Lake Pukaki, New Zealand. <i>Journal of Quaternary Science</i> , 1996, 11, 149-160.	2.1	19
39	Surface melt driven summer diurnal and winter multi-day stick-slip motion and till sedimentology. <i>Nature Communications</i> , 2019, 10, 1599.	12.8	19
40	Glaciotectionic deformation within a flute from the Isfallsglaciären, Sweden. <i>Journal of Quaternary Science</i> , 1996, 11, 299-310.	2.1	17
41	A geophone wireless sensor network for investigating glacier stick-slip motion. <i>Computers and Geosciences</i> , 2017, 105, 103-112.	4.2	17
42	Subglacial till formation: Microscale processes within the subglacial shear zone. <i>Quaternary Science Reviews</i> , 2017, 170, 26-44.	3.0	17
43	Grain textural analysis across a range of glacial facies. <i>Annals of Glaciology</i> , 1999, 28, 111-117.	1.4	16
44	Deforming bed conditions on the Dänischer Wohld Peninsula, northern Germany. <i>Boreas</i> , 1996, 25, 101-114.	2.4	15
45	Erosional and depositional subglacial streamlining processes at Skjálafellsjökull, Iceland: an analogue for a new bedform continuum model. <i>Gff</i> , 2018, 140, 153-169.	1.2	15
46	Long-term impact of the proglacial lake Jökulsárlón on the flow velocity and stability of Breiðamerkurjökull glacier, Iceland. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 2647-2663.	2.5	14
47	Assessing the catastrophic break-up of Briksdalsbreen, Norway, associated with rapid climate change. <i>Journal of the Geological Society</i> , 2011, 168, 673-688.	2.1	11
48	Surface melt-driven seasonal behaviour (englacial and subglacial) from a soft-bedded temperate glacier recorded by in situ wireless probes. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 1769-1782.	2.5	9
49	Seasonal changes in basal conditions at Briksdalsbreen, Norway: the winter-spring transition. <i>Boreas</i> , 2009, 38, 579-590.	2.4	8
50	An investigation of the deforming layer/debris-rich basal-ice continuum, illustrated from three Alaskan glaciers. <i>Journal of Glaciology</i> , 1995, 41, 619-633.	2.2	8
51	The role of women in British Quaternary science. <i>Geological Society Special Publication</i> , 2007, 281, 83-95.	1.3	7
52	An investigation of the debris-rich basal ice from Worthington Glacier, Alaska, U.S.A.. <i>Journal of Glaciology</i> , 1999, 45, 54-62.	2.2	6
53	Glacier Monitoring: Deploying Custom Hardware in Harsh Environments. , 2010, , 245-258.		5
54	Deploying a 6LoWPAN, CoAP, low power, wireless sensor network. , 2016, , .		4

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55	Recent drumlins, flutes and lineations at Vestari-Hagafellsjökull, Iceland. <i>Journal of Glaciology</i> , 1995, 41, 596-606.	2.2	4
56	Glacier deforming-bed processes. <i>Quaternary International</i> , 2001, 86, 1-2.	1.5	3
57	Temporal englacial water content variability associated with a rapidly retreating glacier. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 1230-1239.	2.5	3
58	Deforming bed conditions on the Danischer Wohld Peninsula, northern Germany: Reply to comments. <i>Boreas</i> , 1997, 26, 79-80.	2.4	2
59	Proglacial glaciotectionic deformation associated with glaciolacustrine sedimentation, Lake Pukaki, New Zealand. , 1996, 11, 149.		2
60	An investigation of the debris-rich basal ice from Worthington Glacier, Alaska, U.S.A.. <i>Journal of Glaciology</i> , 1999, 45, 54-62.	2.2	2
61	Sensor Networks and Geohazards. , 2022, , 100-120.		2
62	The seasonal evolution of subglacial drainage pathways beneath a soft-bedded glacier. <i>Communications Earth & Environment</i> , 2022, 3, .	6.8	2
63	Genetic classification of glaciogenic deposits. <i>Quaternary Science Reviews</i> , 1990, 9, 119-120.	3.0	1
64	How the other half lives: A reflection on Tivers (1978) from a physical geographer's point of view. <i>Area</i> , 2020, 52, 786-793.	1.6	1
65	The use of computer-aided learning packages in glaciology and glacial geology. <i>Journal of Glaciology</i> , 1993, 39, 711-714.	2.2	0
66	Holocene book reviews: Environmental management handbook - the holistic approach-from problems to solutions Sven-Olof Ryding, Amsterdam: IOS Press, 1992, 797 pp., NLG 250/£80.00 hardback. ISBN 0-873-71753-8. <i>Holocene</i> , 1994, 4, 223-223.	1.7	0
67	Holocene book reviews : Green globe yearbook of international co-operation on environment and development, 1993. <i>Holocene</i> , 1994, 4, 443-443.	1.7	0
68	Title is missing!. <i>Proceedings of the Geologists Association</i> , 1995, 106, 236-237.	1.1	0
69	Reply: Drumlin formation in southern Anglesey and Arvon, northwest Wales. <i>Journal of Quaternary Science</i> , 1995, 10, 398-399.	2.1	0
70	Geoffrey Boulton. <i>Quaternary Science Reviews</i> , 2009, 28, 580-583.	3.0	0
71	Depositional Processes. , 2021, , .		0
72	The use of computer-aided learning packages in glaciology and glacial geology. <i>Journal of Glaciology</i> , 1993, 39, 711-714.	2.2	0

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73	Proglacial glaciotectionic deformation associated with glaciolacustrine sedimentation, Lake Pukaki, New Zealand. <i>Journal of Quaternary Science</i> , 1996, 11, 149-160.	2.1	0