Alastair J M Key

List of Publications by Year
in descending order

39 papers	947 citations	430874 18 h-index	477307 29 g-index
41 all docs	41 docs citations	41 times ranked	415 citing authors

#	Article	IF	Citations
1	Are bigger flakes always better? An experimental assessment of flake size variation on cutting efficiency and loading. Journal of Archaeological Science, 2014, 41, 140-146.	2.4	68
2	Edge Angle as a Variably Influential Factor in Flake Cutting Efficiency: An Experimental Investigation of Its Relationship with Tool Size and Loading. Archaeometry, 2015, 57, 911-927.	1.3	62
3	The evolution of the hominin thumb and the influence exerted by the non-dominant hand during stone tool production. Journal of Human Evolution, 2015, 78, 60-69.	2.6	53
4	The manual pressures of stone tool behaviors and their implications for the evolution of the human hand. Journal of Human Evolution, 2018, 119, 14-26.	2.6	46
5	Looking at handaxes from another angle: Assessing the ergonomic and functional importance of edge form in Acheulean bifaces. Journal of Anthropological Archaeology, 2016, 44, 43-55.	1.6	45
6	Integrating Mechanical and Ergonomic Research within Functional and Morphological Analyses of Lithic Cutting Technology: Key Principles and Future Experimental Directions. Ethnoarchaeology, 2016, 8, 69-89.	1.4	45
7	Technology based evolution? A biometric test of the effects of handsize versus tool form on efficiency in an experimental cutting task. Journal of Archaeological Science, 2011, 38, 1663-1670.	2.4	44
8	Influence of Handaxe Size and Shape on Cutting Efficiency: A Large-Scale Experiment and Morphometric Analysis. Journal of Archaeological Method and Theory, 2017, 24, 514-541.	3.0	44
9	Reassessing the production of handaxes versus flakes from a functional perspective. Archaeological and Anthropological Sciences, 2017, 9, 737-753.	1.8	37
10	Hand grip diversity and frequency during the use of Lower Palaeolithic stone cutting-tools. Journal of Human Evolution, 2018, 125, 137-158.	2.6	34
11	Quantifying lithic microwear with load variation on experimental basalt flakes using LSCM and area-scale fractal complexity (Asfc). Surface Topography: Metrology and Properties, 2015, 3, 034006.	1.6	33
12	Early stage blunting causes rapid reductions in stone tool performance. Journal of Archaeological Science, 2018, 91, 1-11.	2.4	30
13	Raw material optimization and stone tool engineering in the Early Stone Age of Olduvai Gorge (Tanzania). Journal of the Royal Society Interface, 2020, 17, 20190377.	3.4	30
14	Is Loading a Significantly Influential Factor in the Development of Lithic Microwear? An Experimental Test Using LSCM on Basalt from Olduvai Gorge. Journal of Archaeological Method and Theory, 2015, 22, 1193-1214.	3.0	28
15	Miniaturization optimized weapon killing power during the social stress of late pre-contact North America (AD 600-1600). PLoS ONE, 2020, 15, e0230348.	2.5	28
16	Investigating interrelationships between Lower Palaeolithic stone tool effectiveness and tool user biometric variation: implications for technological and evolutionary changes. Archaeological and Anthropological Sciences, 2018, 10, 989-1006.	1.8	27
17	Comparing the use of meat and clay during cutting and projectile research. Engineering Fracture Mechanics, 2018, 192, 163-175.	4.3	26
18	Form and function in the Lower Palaeolithic: history, progress, and continued relevance. Journal of Anthropological Sciences, 2017, 95, 67-108.	0.4	22

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19	Applied Force as a Determining Factor in Lithic Use-Wear Accrual: An Experimental Investigation of its Validity as a Method with which to Infer Hominin Upper Limb Biomechanics. Lithic Technology, 2013, 38, 32-45.	1.1	19
20	The exceptional abandonment of metal tools by North American hunter-gatherers, 3000 B.P.. Scientific Reports, 2019, 9, 5756.	3.3	18
21	Kinetics of stone tool production among novice and expert tool makers. American Journal of Physical Anthropology, 2021, 174, 714-727.	2.1	18
22	Statistical inference of earlier origins for the first flaked stone technologies. Journal of Human Evolution, 2021, 154, 102976.	2.6	17
23	Manual restrictions on Palaeolithic technological behaviours. PeerJ, 2018, 6, e5399.	2.0	16
24	Flake morphology as a record of manual pressure during stone tool production. Journal of Archaeological Science: Reports, 2017, 12, 43-53.	0.5	15
25	The unexpected importance of the fifth digit during stone tool production. Scientific Reports, 2019, 9, 16724.	3.3	15
26	Manual Loading Distribution During Carrying Behaviors: Implications for the Evolution of the Hominin Hand. PLoS ONE, 2016, 11, e0163801.	2.5	15
27	Revisiting lithic edge characterization with microCT: multiscale study of edge curvature, re-entrant features, and profile geometry on Olduvai Gorge quartzite flakes. Archaeological and Anthropological Sciences, 2022, 14, 1.	1.8	14
28	North American Clovis Point Form and Performance III: An Experimental Assessment of Knife Cutting Efficiency. Lithic Technology, 2022, 47, 203-220.	1.1	13
29	Muscle recruitment and stone tool use ergonomics across three million years of Palaeolithic technological transitions. Journal of Human Evolution, 2020, 144, 102796.	2.6	12
30	Modelling the end of the Acheulean at global and continental levels suggests widespread persistence into the Middle Palaeolithic. Humanities and Social Sciences Communications, 2021, 8, .	2.9	12
31	Torque creation and force variation along the cutting edges of Acheulean handaxes: implications for tip thinning, resharpening and tranchet flake removals. Journal of Archaeological Science, 2020, 120, 105189.	2.4	10
32	Why invent the handle? Electromyography (EMG) and efficiency of use data investigating the prehistoric origin and selection of hafted stone knives. Archaeological and Anthropological Sciences, 2021, 13, 1.	1.8	9
33	Reconstructing the full temporal range of archaeological phenomena from sparse data. Journal of Archaeological Science, 2021, 135, 105479.	2.4	9
34	On the earliest Acheulean in Britain: first dates and in-situ artefacts from the MIS 15 site of Fordwich (Kent, UK). Royal Society Open Science, 2022, 9, .	2.4	9
35	Optimal Linear Estimation (OLE) Modeling Supports Early Holocene (9000â€“8000 RCYBP) Copper Tool Production in North America. American Antiquity, 2022, 87, 267-283.	1.1	8
36	A citation network analysis of lithic microwear research. Journal of Archaeological Science, 2018, 91, 33-42.	2.4	7

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37	Another tool in the experimental toolbox: On the use of aluminum as a substitute for chert in North American prehistoric ballistics research and beyond. North American Archaeologist, 2022, 43, 151-176.	0.5	5
38	Morphometric and technological analysis of Acheulean large cutting tools from Porzuna (Ciudad) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7 101992.	0.5	3
39	Rediscovery of fossils from the middle gravels and lower loam at Barnfield Pit, Swanscombe, Kent (UK). Journal of Archaeological Science: Reports, 2020, 34, 102668.	0.5	0