

Mathieu Duval

List of Publications by Year in descending order

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95
papers

3,485
citations

117625

34
h-index

149698

56
g-index

103
all docs

103
docs citations

103
times ranked

2403
citing authors

#	ARTICLE	IF	CITATIONS
1	The earliest modern humans outside Africa. <i>Science</i> , 2018, 359, 456-459.	12.6	373
2	The oldest human fossil in Europe, from Orce (Spain). <i>Journal of Human Evolution</i> , 2013, 65, 1-9.	2.6	231
3	The age of <i>Homo naledi</i> and associated sediments in the Rising Star Cave, South Africa. <i>ELife</i> , 2017, 6, .	6.0	214
4	<i>Homo sapiens</i> in Arabia by 85,000 years ago. <i>Nature Ecology and Evolution</i> , 2018, 2, 800-809.	7.8	143
5	A new Lower Pleistocene archeological site in Europe (Vallparad�s, Barcelona, Spain). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 5762-5767.	7.1	115
6	1.9-million- and 2.4-million-year-old artifacts and stone tool‐cutmarked bones from Ain Boucherit, Algeria. <i>Science</i> , 2018, 362, 1297-1301.	12.6	115
7	On the limits of using combined U-series/ESR method to date fossil teeth from two Early Pleistocene archaeological sites of the Orce area (Guadix-Baza basin, Spain). <i>Quaternary Research</i> , 2012, 77, 482-491.	1.7	98
8	Reassessing the age of Atapuerca-TD6 (Spain): new paleomagnetic results. <i>Journal of Archaeological Science</i> , 2013, 40, 4586-4595.	2.4	96
9	Age and context of the oldest known hominin fossils from Flores. <i>Nature</i> , 2016, 534, 249-253.	27.8	88
10	ESR chronology of alluvial deposits in the Arlanz�n valley (Atapuerca, Spain): Contemporaneity with Atapuerca Gran Dolina site. <i>Quaternary Geochronology</i> , 2012, 10, 418-423.	1.4	78
11	ESR dosimetry of optically bleached quartz grains extracted from Plio-Quaternary sediment: Evaluating some key aspects of the ESR signals associated to the Ti-centers. <i>Radiation Measurements</i> , 2015, 78, 28-41.	1.4	78
12	Age of the oldest hominin settlements in Spain: Contribution of the combined U-series/ESR dating method applied to fossil teeth. <i>Quaternary Geochronology</i> , 2012, 10, 412-417.	1.4	75
13	ESR dating of Lower Pleistocene fossil teeth: Limits of the single saturating exponential (SSE) function for the equivalent dose determination. <i>Radiation Measurements</i> , 2009, 44, 477-482.	1.4	72
14	Electron spin resonance dating of optically bleached quartz grains from the Middle Palaeolithic site of Cuesta de la Bajada (Spain) using the multiple centres approach. <i>Quaternary Geochronology</i> , 2017, 37, 82-96.	1.4	71
15	Revealing the pace of river landscape evolution during the Quaternary: recent developments in numerical dating methods. <i>Quaternary Science Reviews</i> , 2017, 166, 91-113.	3.0	62
16	High resolution LA-ICP-MS mapping of U and Th isotopes in an early Pleistocene equid tooth from Fuente Nueva-3 (Orce, Andalusia, Spain). <i>Quaternary Geochronology</i> , 2011, 6, 458-467.	1.4	61
17	Portable gamma spectrometry with cerium-doped lanthanum bromide scintillators: Suitability assessments for luminescence and electron spin resonance dating applications. <i>Radiation Measurements</i> , 2012, 47, 6-18.	1.4	61
18	The Middle Paleolithic site of Cuesta de la Bajada (Teruel, Spain): a perspective on the Acheulean and Middle Paleolithic technocomplexes in Europe. <i>Journal of Archaeological Science</i> , 2014, 49, 556-571.	2.4	55

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19	First evidence of an extensive Acheulean large cutting tool accumulation in Europe from Porto Maior (Galicia, Spain). <i>Scientific Reports</i> , 2018, 8, 3082.	3.3	54
20	Multiple hominin dispersals into Southwest Asia over the past 400,000 years. <i>Nature</i> , 2021, 597, 376-380.	27.8	54
21	On the interest of using the multiple center approach in ESR dating of optically bleached quartz grains: Some examples from the Early Pleistocene terraces of the Alcanadre River (Ebro basin, Spain). <i>Quaternary Geochronology</i> , 2015, 29, 58-69.	1.4	51
22	Are published ESR dose assessments on fossil tooth enamel reliable?. <i>Quaternary Geochronology</i> , 2016, 31, 19-27.	1.4	50
23	The challenge of dating early pleistocene fossil teeth by the combined uranium seriesâ€“electron spin resonance method: the Venta Micena palaeontological site (Orce, Spain). <i>Journal of Quaternary Science</i> , 2011, 26, 603-615.	2.1	49
24	Field gamma dose-rate assessment in natural sedimentary contexts using LaBr3(Ce) and NaI(Tl) probes: A comparison between the â€œthresholdâ€•and â€œwindowsâ€•techniques. <i>Applied Radiation and Isotopes</i> , 2013, 74, 36-45.	1.5	49
25	The first direct ESR dating of a hominin tooth from Atapuerca Gran Dolina TD-6 (Spain) supports the antiquity of Homo antecessor. <i>Quaternary Geochronology</i> , 2018, 47, 120-137.	1.4	48
26	The challenge of direct dating old human fossils. <i>Quaternary International</i> , 2010, 223-224, 87-93.	1.5	47
27	OSL dating of individual quartz â€“supergrainsâ€™ from the Ancient Middle Palaeolithic site of Cuesta de la Bajada, Spain. <i>Quaternary Geochronology</i> , 2016, 36, 78-101.	1.4	47
28	DataciÃ³n por <i>ESR</i> del yacimiento arqueolÃ³gico del Pleistoceno inferior de VallparadÃs (Terrassa, CataluÃ±a, EspaÃ±a). <i>Trabajos De Prehistoria</i> , 2011, 68, 7-24.	0.7	45
29	Chronology of the cave interior sediments at Gran Dolina archaeological site, Atapuerca (Spain). <i>Quaternary Science Reviews</i> , 2018, 186, 1-16.	3.0	44
30	Revisiting the ESR chronology of the Early Pleistocene hominin occupation at VallparadÃs (Barcelona,) Tj ETQq0 0 Q rgBT /Overclock 10 T	1.5	43
31	A 300â€“600ka ESR/U-series chronology of Acheulian sites in Western Europe. <i>Quaternary International</i> , 2010, 223-224, 293-298.	1.5	39
32	Comparing two different Early Pleistocene microfaunal sequences from the caves of Atapuerca, Sima del Elefante and Gran Dolina (Spain): Biochronological implications and significance of the Jaramillo subchron. <i>Quaternary International</i> , 2015, 389, 148-158.	1.5	39
33	New views on an old move: Hominin migration into Eurasia. <i>Quaternary International</i> , 2013, 295, 5-12.	1.5	37
34	Middle Pleistocene vertebrate fossils from the Nefud Desert, Saudi Arabia: Implications for biogeography and palaeoecology. <i>Quaternary Science Reviews</i> , 2016, 143, 13-36.	3.0	35
35	Successful combination of electron spin resonance, luminescence and palaeomagnetic dating methods allows reconstruction of the Pleistocene evolution of the lower Moulouya river (NE) Tj ETQq1 1 0.7843143rgBT /Overclock 10 T	1.5	34
36	Human footprints provide snapshot of last interglacial ecology in the Arabian interior. <i>Science Advances</i> , 2020, 6, .	10.3	34

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37	Dating the Earliest Pleistocene alluvial terrace of the Alcanadre River (Ebro Basin, NE Spain): Insights into the landscape evolution and involved processes. <i>Quaternary International</i> , 2016, 407, 86-95.	1.5	29
38	New magnetostratigraphic and numerical age of the Fuente Nueva-3 site (Guadix-Baza basin, Spain). <i>Quaternary International</i> , 2015, 389, 224-234.	1.5	28
39	ESR dating of Middle Pleistocene archaeo-paleontological sites from the Manzanares and Jarama river valleys (Madrid basin, Spain). <i>Quaternary International</i> , 2019, 520, 23-38.	1.5	27
40	Refining the chronology of Acheulean deposits at Porto Maior in the River Miã±o basin (Galicia, Spain) using a comparative luminescence and ESR dating approach. <i>Quaternary International</i> , 2020, 556, 96-112.	1.5	25
41	Single-grain TT-OSL dating results confirm an Early Pleistocene age for the lower Moulouya River deposits (NE Morocco). <i>Quaternary Geochronology</i> , 2019, 49, 138-145.	1.4	20
42	Testing the potential of K-feldspar pIR-IRSL and quartz ESR for dating coastal alluvial fan complexes in arid environments. <i>Quaternary International</i> , 2020, 556, 124-143.	1.5	18
43	New chronological constraints for the lowermost stratigraphic unit of Atapuerca Gran Dolina (Burgos, N Spain). <i>Quaternary Geochronology</i> , 2022, 71, 101292.	1.4	18
44	Cueva Negra del Estrecho del R�o Qu�par: a Dated Late Early Pleistocene Palaeolithic Site in Southeastern Spain. <i>Journal of Paleolithic Archaeology</i> , 2020, 3, 816-855.	1.7	17
45	The Plio-Pleistocene sequence of Oued Boucherit (Algeria): A unique chronologically-constrained archaeological and palaeontological record in North Africa. <i>Quaternary Science Reviews</i> , 2021, 271, 107116.	3.0	17
46	Middle Pleistocene Human Remains from Tourville-la-Rivi�re (Normandy, France) and Their Archaeological Context. <i>PLoS ONE</i> , 2014, 9, e104111.	2.5	16
47	Deciphering long-term coastal dynamics using IR-RF and ESR dating: a case study from M�doc, south-west France. <i>Quaternary Geochronology</i> , 2018, 48, 108-120.	1.4	16
48	ESR dosimetry of fossil enamel: some comments about measurement precision, long-term signal fading and dose-response curve fitting. <i>Radiation Protection Dosimetry</i> , 2013, 157, 463-476.	0.8	15
49	Quantifying the impact of �CT�scanning of human fossil teeth on ESR age results. <i>American Journal of Physical Anthropology</i> , 2017, 163, 205-212.	2.1	15
50	First chronostratigraphic framework of fluvial terrace systems in the eastern Cantabrian margin (Bay Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.4	15
51	Taxonomy, taphonomy and chronology of the Pleistocene faunal assemblage at Ngatau Cupin cave, Sumatra. <i>Quaternary International</i> , 2021, 603, 40-63.	1.5	14
52	The effect of grain size on carbonate contaminant removal from tooth enamel: Towards an improved pretreatment for radiocarbon dating. <i>Quaternary Geochronology</i> , 2016, 36, 174-187.	1.4	13
53	MCDoseE 2.0 A new Markov Chain Monte Carlo program for ESR dose response curve fitting and dose evaluation. <i>Quaternary Geochronology</i> , 2018, 44, 13-22.	1.4	13
54	The place beyond the trees: renewed excavations of the Middle Stone Age deposits at Olieboomspoor in the Waterberg Mountains of the South African Savanna Biome. <i>Archaeological and Anthropological Sciences</i> , 2021, 13, 1.	1.8	13

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55	Direct ESR dating of the Pleistocene vertebrate assemblage from Khok Sung locality, Nakhon Ratchasima Province, Northeast Thailand. <i>Palaeontologia Electronica</i> , 0, , .	0.9	13
56	On the fallacy of using orthogenetic models of rectilinear change in arvicolid teeth for estimating the age of the first human settlements in Western Europe. <i>Historical Biology</i> , 2016, 28, 734-752.	1.4	12
57	A multi-technique dating study of two Lower Palaeolithic sites from the Cher Valley (Middle Loire) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 556, 79-95.	1.5	12
58	Speleological and environmental history of Lida Ajer cave, western Sumatra. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, 20200494.	4.0	12
59	Examining sediment infill dynamics at Naracoorte cave megafauna sites using multiple luminescence dating signals. <i>Quaternary Geochronology</i> , 2022, 70, 101301.	1.4	12
60	Evaluating the accuracy of ESR dose determination of pseudo-Early Pleistocene fossil tooth enamel samples using dose recovery tests. <i>Radiation Measurements</i> , 2015, 79, 24-32.	1.4	11
61	The Acheulean Technocomplex of the Iberian Atlantic Margin as an Example of Technology Continuity Through the Middle Pleistocene. <i>Journal of Paleolithic Archaeology</i> , 2020, 3, 918-943.	1.7	11
62	Insights into the relationship between luminescence and ESR dating signals from Spanish sedimentary quartz samples of different geologic origins. <i>Quaternary International</i> , 2020, 556, 165-179.	1.5	11
63	ESR and ESR/U-series chronology of the Middle Pleistocene site of Tourville-la-Rivière (Normandy,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.5	10
64	The early pleistocene site of la Terre-des-Sablons at Lunery-Rosières (Cher department, Centre region,) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.2	10
65	Assessing the uncertainty on particle size and shape: Implications for ESR and OSL dating of quartz and feldspar grains. <i>Radiation Measurements</i> , 2015, 81, 116-122.	1.4	9
66	Response to Comment on "The earliest modern humans outside Africa" Science, 2018, 362, .	12.6	8
67	Insights into the late stages of the Acheulean technocomplex of Western Iberia from the Arbo site (Galicia, Spain). <i>Journal of Archaeological Science: Reports</i> , 2019, 27, 101934.	0.5	8
68	A multidisciplinary overview of the lower Miño River terrace system (NW Iberian Peninsula). <i>Quaternary International</i> , 2020, 566-567, 57-77.	1.5	8
69	First Chronological Constraints for the High Terraces of the Upper Ebro Catchment. <i>Quaternary</i> , 2021, 4, 25.	2.0	8
70	ESR/U-series dating of fossil teeth: a useful tool to estimate the reworking state of the archaeological layers?. <i>Quaternaire</i> , 2015, , 213-225.	0.2	8
71	Datation par ESR de grains de quartz extraits de sédiments: quelques recommandations pour un prÃ©levement optimal. <i>Quaternaire</i> , 2017, , 161-166.	0.2	8
72	Electron Spin Resonance (ESR) Dating of Fossil Tooth Enamel. <i>Encyclopedia of Earth Sciences Series</i> , 2015, , 239-246.	0.1	7

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73	Evaluating the Potential of Q-Band ESR Spectroscopy for Dose Reconstruction of Fossil Tooth Enamel. PLoS ONE, 2016, 11, e0150346.	2.5	7
74	ESR and OSL dating of fossil-bearing deposits from Naracoorte Cave Complex palaeontological sites, south Australia. Quaternary Geochronology, 2022, 69, 101270.	1.4	7
75	Effect of deposit alterations on the dating of herbivorous teeth from Arago cave by the ESR-U-series method. Quaternary Geochronology, 2010, 5, 376-380.	1.4	6
76	First experimental evaluation of the alpha efficiency in coarse-grained quartz for ESR dating purposes: implications for dose rate evaluation. Scientific Reports, 2019, 9, 19769.	3.3	6
77	Quibas-Sima: A unique 1.5Ma-old vertebrate succession in southern Iberian Peninsula. Quaternary Science Reviews, 2022, 283, 107469.	3.0	6
78	Comparing depositional modes of cave sediments using magnetic anisotropy. Journal of Archaeological Science, 2020, 123, 105241.	2.4	5
79	Comments on "ESR dating of the Majuangou and Banshan Paleolithic sites in the Nihewan Basin, North China" by Liu et al. (2014). Journal of Human Evolution, 2016, 90, 198-202.	2.6	4
80	ESR dating of fossil teeth: In which extent the thickness of adjacent tissues should be taken into account in the external beta dose rate evaluation?. Geochronometria, 2019, 46, 102-110.	0.8	4
81	Stratigraphy and chronology of Pleistocene coastal deposits in northern Aquitaine, France: a reinvestigation. Quaternaire, 2019, , 275-303.	0.2	4
82	ESR dating of optically bleached quartz grains from Plio-Pleistocene to Holocene coastal dune deposits (Wilderness-Knysna area, South Africa): a comparison with luminescence. Quaternary Geochronology, 2022, 70, 101293.	1.4	4
83	ESR Dating of Optically Bleached Quartz Grains: Assessing the Impact of Different Experimental Setups on Dose Evaluations. Geochronometria, 2021, 48, 179-190.	0.8	3
84	Investigating the resetting of IRSL signals in beach cobbles and their potential for rock surface dating of marine terraces in Northern Chile. Marine Geology, 2022, 443, 106692.	2.1	3
85	New Chronological Constraints for the Late Pleistocene Fossil Assemblage and Associated Breccia from Ngalaupit, Sumatra. Open Quaternary, 2021, 7, .	1.0	3
86	Contexto crono-estratigráfico y cultural del conjunto lítico de Base Menacho (cuena del río Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	0.2	3
87	ESR dating of quartz grains: Evaluating the performance of various cryogenic systems for dosimetric purpose. Radiation Measurements, 2022, 155, 106802.	1.4	2
88	Electron Spin Resonance Dating of Fossil Tooth Enamel. , 2013, , 1-11.		1
89	El yacimiento achelense de las Cándaras de Budi: sAntesis y perspectivas despu@s de 50 a±os de desencuentros. Estudios Do Cuaternario, 2019, , 1-22.	0.3	1
90	Early human occupations in NW Iberia: The archaeological record of the Lower Mi±o basin during the second half of the Middle Pleistocene. Comptes Rendus - Palevol, 2021, , .	0.2	0

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91	Electron Spin Resonance (ESR) in Archaeological Context. Encyclopedia of Earth Sciences Series, 2017, , 224-233.	0.1	0
92	Sobre el potencial de la Resonancia Paramagnética Electrónica como herramienta geocronológica en contextos geoarqueológicos: un resumen de 30 años de investigación en la Península Ibérica.. Boletín Geológico Y Minero, 2018, 1129, 35-57.	0.1	0
93	A multidisciplinary overview of the lower Miño River terrace system (NW Iberian Peninsula): A response to comments by Viveen et al. (2020). Quaternary International, 2020, 565, 129-135.	1.5	0
94	Direct U-series dating of the Apidima C human remains. Words, Bones, Genes, Tools, 2021, , 37-55.	0.0	0
95	Los Villares locality (Ruidera, Castilla-La Mancha, Spain): a new Middle Pleistocene fossil assemblage from the Southern Iberian Plateau with possible evidence of human activity. Cuaternario Y Geomorfología, 2022, 36, 7-35.	0.2	0