

Marco Madella

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

2,894
citations

172457

29
h-index

182427

51
g-index

73
all docs

73
docs citations

73
times ranked

2562
citing authors

#	ARTICLE	IF	CITATIONS
1	Neanderthal medics? Evidence for food, cooking, and medicinal plants entrapped in dental calculus. <i>Die Naturwissenschaften</i> , 2012, 99, 617-626.	1.6	315
2	Palaeoecology and the Harappan Civilisation of South Asia: a reconsideration. <i>Quaternary Science Reviews</i> , 2006, 25, 1283-1301.	3.0	190
3	The Exploitation of Plant Resources by Neanderthals in Amud Cave (Israel): The Evidence from Phytolith Studies. <i>Journal of Archaeological Science</i> , 2002, 29, 703-719.	2.4	182
4	Taphonomy and phytoliths: A user manual. <i>Quaternary International</i> , 2012, 275, 76-83.	1.5	144
5	Summed Probability Distribution of 14C Dates Suggests Regional Divergences in the Population Dynamics of the Jomon Period in Eastern Japan. <i>PLoS ONE</i> , 2016, 11, e0154809.	2.5	144
6	Phytoliths as a tool for investigations of agricultural origins and dispersals around the world. <i>Journal of Archaeological Science</i> , 2016, 68, 32-45.	2.4	119
7	The "invisible" product: developing markers for identifying dung in archaeological contexts. <i>Journal of Archaeological Science</i> , 2012, 39, 953-963.	2.4	103
8	Microbotanical Evidence of Domestic Cereals in Africa 7000 Years Ago. <i>PLoS ONE</i> , 2014, 9, e110177.	2.5	96
9	Automated detection of archaeological mounds using machine-learning classification of multisensor and multitemporal satellite data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 18240-18250.	7.1	95
10	Taphonomical aspects of silica phytoliths in the loess sediments of the Argentinean Pampas. <i>Quaternary International</i> , 2009, 193, 70-79.	1.5	88
11	Shell middens as archives of past environments, human dispersal and specialized resource management. <i>Quaternary International</i> , 2011, 239, 1-7.	1.5	72
12	Millet microremains "an alternative approach to understand cultivation and use of critical crops in Prehistory. <i>Archaeological and Anthropological Sciences</i> , 2016, 8, 17-28.	1.8	71
13	Anthropic activity markers and spatial variability: an ethnoarchaeological experiment in a domestic unit of Northern Gujarat (India). <i>Journal of Archaeological Science</i> , 2014, 41, 482-492.	2.4	51
14	Mapping past human land use using archaeological data: A new classification for global land use synthesis and data harmonization. <i>PLoS ONE</i> , 2021, 16, e0246662.	2.5	47
15	Stratigraphic and spatial variability in shell middens: microfacies identification at the ethnohistoric site Tunel VII (Tierra del Fuego, Argentina). <i>Archaeological and Anthropological Sciences</i> , 2011, 3, 357-378.	1.8	46
16	Millet and Herders: The Origins of Plant Cultivation in Semiarid North Gujarat (India). <i>Current Anthropology</i> , 2016, 57, 149-173.	1.6	43
17	Experimental micromorphology in Tierra del Fuego (Argentina): building a reference collection for the study of shell middens in cold climates. <i>Journal of Archaeological Science</i> , 2011, 38, 588-604.	2.4	42
18	A tale of multi-proxies: integrating macro- and microbotanical remains to understand subsistence strategies. <i>Vegetation History and Archaeobotany</i> , 2015, 24, 121-133.	2.1	42

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19	Plant exploitation in Neolithic Sudan: A review in the light of new data from the cemeteries R12 and Ghaba. <i>Quaternary International</i> , 2016, 412, 36-53.	1.5	42
20	Combining phytoliths and $\delta^{13}\text{C}$ matter in Holocene palaeoenvironmental studies of tropical soils: An example of an Oxisol in Brazil. <i>Quaternary International</i> , 2013, 287, 47-55.	1.5	39
21	Phytoliths in Pottery Reveal the Use of Spice in European Prehistoric Cuisine. <i>PLoS ONE</i> , 2013, 8, e70583.	2.5	39
22	Micromorphological perspectives on the stratigraphical excavation of shell middens: a first approximation from the ethnohistorical site Tunel VII, Tierra del Fuego (Argentina). <i>Journal of Archaeological Science</i> , 2010, 37, 1252-1259.	2.4	38
23	Archaeology at the micro-scale: micromorphology and phytoliths at a Swahili stonetown. <i>Archaeological and Anthropological Sciences</i> , 2012, 4, 145-159.	1.8	38
24	The missing crop: investigating the use of grasses at Els Trocs, a Neolithic cave site in the Pyrenees (1564 Åm Aasl). <i>Journal of Archaeological Science</i> , 2014, 42, 456-466.	2.4	36
25	Directions in current and future phytolith research. <i>Journal of Archaeological Science</i> , 2016, 68, 112-117.	2.4	36
26	Development and testing scenarios for implementing land use and land cover changes during the Holocene in Earth system model experiments. <i>Geoscientific Model Development</i> , 2020, 13, 805-824.	3.6	36
27	New geoarchaeological investigations of the valley systems in the Aksum area of northern Ethiopia. <i>Catena</i> , 2009, 78, 218-233.	5.0	34
28	Diversification, Intensification and Specialization: Changing Land Use in Western Africa from 1800 BC to AD 1500. <i>Journal of World Prehistory</i> , 2019, 32, 179-228.	3.6	34
29	State formation and water resources management in the Horn of Africa: the Aksumite Kingdom of the northern Ethiopian highlands. <i>World Archaeology</i> , 2009, 41, 2-15.	1.1	33
30	Shell midden research: An interdisciplinary agenda for the Quaternary and Social Sciences. <i>Quaternary International</i> , 2011, 239, 147-152.	1.5	31
31	Small-scale societies and environmental transformations: coevolutionary dynamics. <i>Ecology and Society</i> , 2017, 22, .	2.3	30
32	Towards high-resolution shell midden archaeology: Experimental and ethnoarchaeology in Tierra del Fuego (Argentina). <i>Quaternary International</i> , 2011, 239, 125-134.	1.5	28
33	Morphometric distinction between bilobate phytoliths from <i>Panicum miliaceum</i> and <i>Setaria italica</i> leaves. <i>Archaeological and Anthropological Sciences</i> , 2016, 8, 505-521.	1.8	28
34	Introduction to Simulating the Past. <i>Journal of Archaeological Method and Theory</i> , 2014, 21, 251-257.	3.0	27
35	High and Medium Resolution Satellite Imagery to Evaluate Late Holocene Human-Environment Interactions in Arid Lands: A Case Study from the Central Sahara. <i>Remote Sensing</i> , 2017, 9, 351.	4.0	27
36	Site Formation Processes and Hunter-Gatherers Use of Space in a Tropical Environment: A Geo-Ethnoarchaeological Approach from South India. <i>PLoS ONE</i> , 2016, 11, e0164185.	2.5	27

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37	Use of Satellite SAR for Understanding Long-Term Human Occupation Dynamics in the Monsoonal Semi-Arid Plains of North Gujarat, India. <i>Remote Sensing</i> , 2014, 6, 11420-11443.	4.0	21
38	CORONA Photographs in Monsoonal Semi-árid Environments: Addressing Archaeological Surveys and Historic Landscape Dynamics over North Gujarat, India. <i>Archaeological Prospection</i> , 2015, 22, 75-90.	2.2	21
39	Variability of the phytolith record in fisher-áhunter-ágatherer sites: An example from the Yamana society (Beagle Channel, Tierra del Fuego, Argentina). <i>Quaternary International</i> , 2009, 193, 184-191.	1.5	20
40	A methodological approach to the study of microbotanical remains from grinding stones: a case study in northern Gujarat (India). <i>Vegetation History and Archaeobotany</i> , 2017, 26, 43-57.	2.1	20
41	A New Method for Morphometric Analysis of Opal Phytoliths from Plants. <i>Microscopy and Microanalysis</i> , 2014, 20, 1876-1887.	0.4	19
42	Holocene land cover change in south-western Amazonia inferred from paleoflood archives. <i>Global and Planetary Change</i> , 2019, 174, 105-114.	3.5	19
43	Sonication improves the efficiency, efficacy and safety of phytolith extraction. <i>Review of Palaeobotany and Palynology</i> , 2016, 235, 1-5.	1.5	18
44	The archaeology and ethnoarchaeology of rain-fed cultivation in arid and hyper-arid North Africa. <i>Antiquity</i> , 2019, 93, 1026-1039.	1.0	18
45	Contributions of geoarchaeology and remote sensing to the study of Holocene hunter-ágatherer and agro-pastoral groups in arid margins: The case of North Gujarat (Northwest India). <i>Quaternary International</i> , 2013, 308-309, 53-65.	1.5	17
46	Archaeological expansions in tropical South America during the late Holocene: Assessing the role of demic diffusion. <i>PLoS ONE</i> , 2020, 15, e0232367.	2.5	17
47	Opal phytolith extraction in oxisols. <i>Quaternary International</i> , 2013, 287, 56-62.	1.5	16
48	Towards improved detection and identification of crop by-products: Morphometric analysis of bilobate leaf phytoliths of <i>Pennisetum glaucum</i> and <i>Sorghum bicolor</i> . <i>Quaternary International</i> , 2017, 434, 1-14.	1.5	16
49	The formation of fire residues associated with hunter-gatherers in humid tropical environments: A geo-ethnoarchaeological perspective. <i>Quaternary Science Reviews</i> , 2017, 171, 85-99.	3.0	16
50	Resilience of small-scale societiesÙ livelihoods: a framework for studying the transition from food gathering to food production. <i>Ecology and Society</i> , 2016, 21, .	2.3	15
51	Geometric morphometric analysis of <i>Setaria italica</i> (L.) P. Beauv. (foxtail millet) and <i>Brachiaria ramosa</i> (L.) Stapf. (browntop millet) and its implications for understanding the biogeography of small millets. <i>Vegetation History and Archaeobotany</i> , 2016, 25, 303-310.	2.1	15
52	Land Use Patterns in Central Asia. Step 1: The Musical Chairs Model. <i>Journal of Archaeological Method and Theory</i> , 2014, 21, 405-425.	3.0	14
53	Potential of soil phytoliths, organic matter and carbon isotopes for small-scale differentiation of tropical rainforest vegetation: A pilot study from the campos nativos of the Atlantic Forest in EspÁrito Santo State (Brazil). <i>Quaternary International</i> , 2017, 437, 156-164.	1.5	14
54	Squaring the Circle. Social and Environmental Implications of Pre-Pottery Neolithic Building Technology at Tell Qarassa (South Syria). <i>PLoS ONE</i> , 2012, 7, e42109.	2.5	12

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55	What is on the craftsmen's menu? Plant consumption at Datrana, a 5000-year-old lithic blade workshop in North Gujarat, India. <i>Archaeological and Anthropological Sciences</i> , 2017, 9, 251-263.	1.8	11
56	Quantifying the relationship between food sharing practices and socio-ecological variables in small-scale societies: A cross-cultural multi-methodological approach. <i>PLoS ONE</i> , 2019, 14, e0216302.	2.5	11
57	Potentials and limitations for the identification of outdoor dung plasters in humid tropical environment: a geo-ethnoarchaeological case study from South India. <i>Archaeological and Anthropological Sciences</i> , 2019, 11, 2683-2698.	1.8	11
58	A microbotanical and microwear perspective to plant processing activities and foodways at Neolithic AñatalhÁyÁ¼k. <i>PLoS ONE</i> , 2021, 16, e0252312.	2.5	9
59	Archaeobotany of Brazilian Indigenous Peoples and Their Food Plants. <i>Ethnobiology</i> , 2021, , 127-159.	0.4	7
60	A Long-Term Assessment of the Use of <i>Phoenix theophrasti</i> (Cretan Date Palm): The Ethnobotany and Archaeobotany of a Neglected Palm. <i>Journal of Ethnobiology</i> , 2020, 40, 101-114.	2.1	6
61	Understanding Archaeological Structures by Means of Phytolith Analysis. , 2001, , 173-182.		5
62	Integrating Lipid and Starch Grain Analyses From Pottery Vessels to Explore Prehistoric Foodways in Northern Gujarat, India. <i>Frontiers in Ecology and Evolution</i> , 2022, 10, .	2.2	5
63	No Rain, No Grain? Ethnoarchaeology of Sorghum and Millet Cultivation in Dryland Environments of Sudan, Pakistan, and Ethiopia. <i>Ethnoarchaeology</i> , 2021, 13, 80-104.	1.4	5
64	Reassessing the role of climate change in the Tupi expansion (South America, 5000–500 BP). <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210499.	3.4	4
65	Understanding the Relationship between Water Availability and Biosilica Accumulation in Selected C4 Crop Leaves: An Experimental Approach. <i>Plants</i> , 2022, 11, 1019.	3.5	4
66	Holocene Vegetation and Climate inferences from Phytoliths and Pollen from Lagoa do Macuco, North Coast of EspÁrito Santo State (Brazil). <i>Quaternary and Environmental Geosciences</i> , 2015, 6, .	0.1	3
67	Multi-proxy survey of open-air surface scatters in drylands: Archaeological and physico-chemical characterisation of fossilised dunes in North Gujarat (India). <i>Quaternary International</i> , 2017, 436, 57-75.	1.5	3
68	Sickles and Forks: Traditional Rural Knowledge of Agricultural Practises and Its Possible Applications in Archaeology. , 2016, , 241-252.		2
69	Quantitative Analysis of Drought Management Strategies across Ethnographically-Researched African Societies: A Pilot Study. <i>Land</i> , 2021, 10, 1062.	2.9	2
70	Environmental effects on the spread of the Neolithic crop package to South Asia. <i>PLoS ONE</i> , 2022, 17, e0268482.	2.5	2
71	Phytolith analyses from Khil and Kaf Taht el-Ghar (Western Maghreb): Plant use trajectories in a long-term perspective. <i>Journal of Archaeological Science: Reports</i> , 2021, 37, 102921.	0.5	1
72	The North Gujarat Archaeological Project – NoGAP.. , 2018, , 343-358.		1

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73	Microlithic variation and the Mesolithic occupations of western India. PLoS ONE, 2022, 17, e0267654.	2.5	1