

DAFTAR PUSTAKA

- Adriani, Nicolaus, and Albertus Christiaan Kruyt. 1903. "Geklopte Boomschors als Kleedingstof op Midden-Celebes: En Hare Geographische Verspreiding in Indonesië." *Internationales Archiv Fur Ethnographie* 14 2(4–6):139–94.
- Ahituv, Hadar, and Amanda G. Henry. 2022. "An Initial Key of Starch Grains from Edible Plants of the Eastern Mediterranean for Use in Identifying Archaeological Starches." *Journal of Archaeological Science: Reports* 42:103396. doi: 10.1016/J.JASREP.2022.103396.
- Ahmad, Fatom. 2023. "Pemakaian Gerabah Dan Artefak Batu Dari Situs Gua Jauharlin 1, Kabupaten Kotabaru, Kalimantan Selatan Berdasarkan Analisis Residu." *Skripsi Sarjana*. Yogyakarta: Fakultas Ilmu Budaya UGM.
- Ahrens, C. D., and R. Henson. 2018. *Meteorology Today: An Introduction to Weather, Climate, and the Environment*. 12th Editi. Boston: Cengage.
- Alexandre, A., J. D. Meunier, A. M. Lézine, A. Vincens, and D. Schwartz. 1997. "Phytoliths: Indicators of Grassland Dynamics during the Late Holocene in Intertropical Africa." *Palaeogeography, Palaeoclimatology, Palaeoecology* 136(1–4):213–29. doi: 10.1016/S0031-0182(97)00089-8.
- Alifah. 2016. "Sumberdaya Tumbuhan Dan Pemanfaatannya Di Situs Gua Here Sorot Entapa Dan Kuil Eu Lapa, Pulau Kisar Maluku: Berdasarkan Studi Arkeobotani." *Tesis Magister*. Yogyakarta: Fakultas Ilmu Budaya UGM.
- Alifah, Alifah, Harry Widiyanto, M. Dziyaul F. Arrozain, Rizka Purnamasari, Yuni Suniarti, and Mirza Ansory. 2022. "Utilization of Natural Resources in Prehistoric Times Based on Archaeological Findings in Gua Arca, Kangean Island, East Java." *Berkala Arkeologi* 42(1):1–16. doi: 10.30883/JBA.V42I2.955.
- An, Xiao Hong. 2016. "Morphological Characteristics of Phytoliths from Representative Conifers in China." *Palaeoworld* 25(1):116–27. doi: 10.1016/J.PALWOR.2016.01.002.
- An, Xiaohong, and Binrong Xie. 2022. "Phytoliths from Woody Plants: A Review." *Diversity* 2022, Vol. 14, Page 339 14(5):339. doi: 10.3390/D14050339.
- Anggraeni. 2012. "The Austronesian Migration Hypothesis As Seen From Prehistoric Settlements on the Karama River, Mamuju, West Sulawesi." *PhD Thesis*. Canberra: The Australian National University.
- Anggraeni. 2022. "Early Metal Age Settlement at the Site of Palembang, Kalumpang, Karama Valley, West Sulawesi." *Asian Perspectives* 61(1):92–111. doi: 10.1353/ASI.2022.0004.
- Anggraeni, Novialita Ridimas Putri, M. Dziyaul F. Arrozain, and Enriko. 2022. *Laporan Penelitian Posisi Situs Palembang Dalam Dinamika Permukiman Di Lembah Sungai Karama, Sulawesi Barat*. Yogyakarta: Departemen Arkeologi UGM.
- Ansaar. 2011. *Arsitektur Tradisional Daerah Mamasa*. edited by O. Oesman. Jakarta: Kementerian Kebudayaan dan Pariwisata .

- Ardika, I. Wayan. 1991. "Archaeological Research in Northeastern Bali, Indonesia." *PhD Thesis*. Canberra: The Australian National University.
- Arifin, Karina. 2004. "Early Human Occupation in Kalimantan Rainforest (The Upper Birang River Region, Berau)." *PhD Thesis*. Canberra: The Australian National University.
- Arrozain, M. Dziyaul F. 2021. "Karakteristik Lingkungan Vegetasi Situs Kendenglembu, Banyuwangi berdasarkan Analisis Fitolit". *Skripsi Sarjana*. Yogyakarta: Fakultas Ilmu Budaya UGM
- Arrozain, M. Dziyaul F., and Anggraeni. 2024. *Modul Protokol Ekstraksi Ganda Butir Pati & Fitolit dari Sedimen Arkeologi*. Yogyakarta: Departemen Arkeologi Fakultas Ilmu Budaya UGM.
- Babot, M. Del P. 2001. "Starch Grain Damage as an Indicator of Food Processing." Pp. 69–81 in *Phytolith and starch research in the Australian-Pacific-Asian regions: the state of the art*. Vol. 19, edited by D. R. Hart and L. A. Wallis. Canberra: ANU Press.
- Badenhuizen, N. P. 1969. *The Biogenesis of Starch Granules in Higher Plants*. New York: Appleton-Century-Crofts.
- Ball, T., L. Vrydaghs, I. Van Den Hauwe, J. Manwaring, and E. De Langhe. 2006. "Differentiating Banana Phytoliths: Wild and Edible *Musa Acuminata* and *Musa Balbisiana*." *Journal of Archaeological Science* 33(9):1228–36. doi: 10.1016/j.jas.2005.12.010.
- Barton, Huw. 2007. "Starch Residues on Museum Artefacts: Implications for Determining Tool Use." *Journal of Archaeological Science* 34(10):1752–62. doi: 10.1016/J.JAS.2007.01.007.
- Beck, Hylke E., Niklaus E. Zimmermann, Tim R. McVicar, Noemi Vergopolan, Alexis Berg, and Eric F. Wood. 2018. "Present and Future Köppen-Geiger Climate Classification Maps at 1-Km Resolution." *Scientific Data* 5(1):1–12. doi: 10.1038/sdata.2018.214.
- Becks, Fanya S., and Sheahan Bestel. 2013. "Rice in Rice Bowls: Starch and Residues on Market Street Chinatown Artifacts." Pp. 162–75 in *Proceedings of the Society for Californian Archaeology* 27. California: the Society for Californian Archaeology.
- Bellwood, Peter. 2008. *First Farmers*. Oxford: Blackwell Publishing.
- Bellwood, Peter. 2017. *First Islanders*. New Jersey: John Wiley & Sons, Inc.
- Benvenuto, María Laura, Mariana Fernández Honaine, Margarita Luisa Osterrieth, and Eduardo Morel. 2015. "Differentiation of Globular Phytoliths in Arecaceae and Other Monocotyledons: Morphological Description for Paleobotanical Application." *Turkish Journal of Botany* 39(2):341–53. doi: 10.3906/bot-1312-72.
- Binford, Lewis H. 1968. "Post-Pleistocene Adaptations." Pp. 313–41 in *Archeology in Cultural Systems*. New York: Routledge.
- Binford, Lewis R. 1977. "General Introduction." Pp. 1–12 in *For Theory Building in Archaeology: Essays on Faunal Remains, Aquatic Resources, Spatial*

- Analysis, and Systemic Modelling*, edited by L. R. Binford. New York: Academic Press.
- Blum, Winfried E. H., Peter Schad, and Stephen Nortcliff. 2018. *Essentials of Soil Science: Soil Formation, Functions, Use and Classification (World Reference Base, WRB)*. Stuttgart: Borntraeger Science Publishers.
- Bowdery, Doreen. 1995. "Phytolith Analysis Applied to Archaeological Sites in the Australian Arid Zone." *PhD Thesis*. Canberra: The Australian National University.
- BPS Kab. Mamuju. 2024. *Kabupaten Mamuju Dalam Angka Tahun 2024*. Vol. 36. Mamuju: Badan Pusat Statistik.
- Buccellati, Giorgio, and Marilyn Kelly Buccellati. 1983. "Terqa: The First Eight Seasons." *Les Ann. Archeol. Arabes Syriennes* 33:47–67.
- Butzer, Karl W. 1982. *Archaeology as Human Ecology: Method and Theory for a Contextual Approach*. Cambridge: Cambridge University Press.
- Cabanes, Dan, Steve Weiner, and Ruth Shahack-Gross. 2011. "Stability of Phytoliths in the Archaeological Record: A Dissolution Study of Modern and Fossil Phytoliths." *Journal of Archaeological Science* 38(9):2480–90. doi: 10.1016/J.JAS.2011.05.020.
- Cagnato, Clarissa, Pascal Nlend, François Ngouh, Richard Oslisly, and Geoffroy de Saulieu. 2022. "Analysis of Early Iron Age (2500 BP) and Modern Period (150 BP) Starch Grains in Western Central Africa." *Scientific Reports* 12(1):1–10. doi: 10.1038/s41598-022-23442-z.
- Cai, Canhui, Lingxiao Zhao, Jun Huang, Yifang Chen, and Cunxu Wei. 2014. "Morphology, Structure and Gelatinization Properties of Heterogeneous Starch Granules from High-Amylose Maize." *Carbohydrate Polymers* 102(1):606–14. doi: 10.1016/J.CARBPOL.2013.12.010.
- Calo, Ambra, Peter Bellwood, James Lankton, Andreas Reinecke, Rochtri Agung Bawono, and Bagyo Prasetyo. 2020. "Trans-Asiatic Exchange of Glass, Gold and Bronze: Analysis of Finds from the Late Prehistoric Pangkung Paruk Site, Bali." *Antiquity* 94(373):110–26. doi: 10.15184/aqy.2019.199.
- Calo, Ambra, Bagyo Prasetyo, Peter Bellwood, James W. Lankton, Bernard Gratuze, Thomas Oliver Pryce, Andreas Reinecke, Verena Leusch, Heidrun Schenk, Rachel Wood, Rochtri A. Bawono, I. Dewa Kompiang Gede, Ni L. K. Citha Yulianti, Jack Fenner, Christian Reepmeyer, Cristina Castillo, and Alison K. Carter. 2015. "Sembiran and Pacung on the North Coast of Bali: A Strategic Crossroads for Early Trans-Asiatic Exchange." *Antiquity* 89(344):378–96. doi: 10.15184/aqy.2014.45.
- Calvert, Stephen J., and Robert Hall. 2003. "The Cenozoic Geology of the Lariang and Karama Regions, Western Sulawesi: New Insight into the Evolution of the Makassar Straits Region." Pp. 1–17 in *Proceeding Indonesian Petroleum Association*. Jakarta: Indonesian Petroleum Association.

- Calvert, Stephen J., and Robert Hall. 2007. "Cenozoic Evolution of the Lariang and Karama Regions, North Makassar Basin Western Sulawesi, Indonesia." *Petroleum Geoscience* 13(4):353–68. doi: 10.1144/1354-079306-757.
- Carter, Alison Kyra. 2016. "The Production and Exchange of Glass and Stone Beads in Southeast Asia from 500 BCE to the Early Second Millennium CE: An Assessment of the Work of Peter Francis in Light of Recent Research." *Archaeological Research in Asia* 6:16–29. doi: 10.1016/j.ara.2016.02.004.
- Castillo, Cristina Cobo, Bérénice Bellina, Dorian Q. Fuller, Bangkok Khao, Sam Kaeo, and Phu Khao Thong. 2016. "Rice, Beans and Trade Crops on the Early Maritime Silk Route in Southeast Asia." *Antiquity* 90(353):1255–69. doi: 10.15184/AQY.2016.175.
- Chandler-Ezell, Karol, Deborah M. Pearsall, and James A. Zeidler. 2006. "Root and Tuber Phytoliths and Starch Grains Document Manioc (*Manihot Esculenta*) Arrowroot (*Maranta Arundinacea*) and Llerén (*Calathea* Sp.) at the Real Alto Site Ecuador | Economic Botany." *Economic Botany* 60(2):103–20. doi: [https://doi.org/10.1663/0013-0001\(2006\)60\[103:RATPAS\]2.0.CO;2](https://doi.org/10.1663/0013-0001(2006)60[103:RATPAS]2.0.CO;2).
- Chen, Iju, Kuang ti Li, and Cheng hwa Tsang. 2020. "Silicified Bulliform Cells of Poaceae: Morphological Characteristics That Distinguish Subfamilies." *Botanical Studies* 61(5):1–25. doi: 10.1186/s40529-020-0282-x.
- Chen, Tao, Liangliang Hou, Hongen Jiang, Yan Wu, and Amanda G. Henry. 2021. "Starch Grains from Human Teeth Reveal the Plant Consumption of Proto-Shang People (c. 2000–1600 BC) from Nancheng Site, Hebei, China." *Archaeological and Anthropological Sciences* 13(9):1–12. doi: 10.1007/S12520-021-01416-Y.
- Coil, James, M. Alejandra Korstanje, Steven Archer, and Christine A. Hastorf. 2003. "Laboratory Goals and Considerations for Multiple Microfossil Extraction in Archaeology." *Journal of Archaeological Science* 30(8):991–1008. doi: 10.1016/S0305-4403(02)00285-6.
- Collura, Lucia Veronica, and Katharina Neumann. 2017. "Wood and Bark Phytoliths of West African Woody Plants." *Quaternary International* 434:142–59. doi: 10.1016/j.quaint.2015.12.070.
- Crifò, Camilla, and Caroline A. E. Strömberg. 2020a. "Small-Scale Spatial Resolution of the Soil Phytolith Record in a Rainforest and a Dry Forest in Costa Rica: Applications to the Deep-Time Fossil Phytolith Record." *Palaeogeography, Palaeoclimatology, Palaeoecology* 537(March 2019):109107. doi: 10.1016/j.palaeo.2019.03.008.
- Crifò, Camilla, and Caroline A. E. Strömberg. 2020b. "Small-Scale Spatial Resolution of the Soil Phytolith Record in a Rainforest and a Dry Forest in Costa Rica: Applications to the Deep-Time Fossil Phytolith Record." *Palaeogeography, Palaeoclimatology, Palaeoecology* 537(March 2019):109107. doi: 10.1016/j.palaeo.2019.03.008.
- Crowther, Alison. 2012. "The Differential Survival of Native Starch during Cooking and Implications for Archaeological Analyses: A Review."

- Archaeological and Anthropological Sciences* 4(3):221–35. doi: 10.1007/S12520-012-0097-0/TABLES/3.
- Darojah, Citra Iqliyah. 2017. “Pemilihan Lokasi Hunian Prasejarah Di Kawasan Daerah Aliran Sungai (DAS) Karama, Mamuju, Sulawesi Barat (Kajian Arkeologi Lanskap).” *Tesis Magister*. Yogyakarta: Fakultas Ilmu Budaya UGM.
- Deng, Zhenhua, Hsiao chun Hung, Mike T. Carson, Adhi Agus Oktaviana, Budianto Hakim, and Truman Simanjuntak. 2020. “Validating Earliest Rice Farming in the Indonesian Archipelago.” *Scientific Reports* 10(1):1–9. doi: 10.1038/s41598-020-67747-3.
- Denham, T. P., S. G. Haberle, C. Lentfer, R. Fullagar, J. Field, M. Therin, N. Porch, and B. Winsborough. 2003. “Origins of Agriculture at Kuk Swamp in the Highlands of New Guinea.” *Science* 301(5630):189–93. doi: 10.1126/science.1085255.
- Dickau, Ruth, Anthony J. Ranere, and Richard G. Cooke. 2006. “Starch Grain Evidence for the Preceramic Dispersals of Maize and Root Crops into Tropical Dry and Humid Forests of Panama.”
- Dimitrakopoulos, Panayiotis G., and Andreas Y. Troumbis. 2019. “Biotopes” edited by B. Fath. *Encyclopedia of Ecology* 1:359–65.
- Dincauze, Dena Ferran. 2000. *Environmental Archaeology: Principles and Practice*. Cambridge: Cambridge University Press.
- Drainsfield, Soejatmi, and Elizabeth Widjaja, eds. 1995. *Plant Resources of South-East Asia No.7: Bamboos*. Leiden: Backhuys.
- Dransfield, John, Natalie W. Uhl, Conny B. Asmussen, William J. Baker, Madeline M. Harley, and Carl E. Lewis. 2008. *Genera Palmarum: The Evolution and Classification of Palms*. 1st ed. Kew: Kew Royal Botanical Garden .
- Elvida, Lea Purwyanasari. 2016. “Variasi Tumbuhan Masa Prasejarah Kajian Berdasarkan Fitolit Pada Sedimen Song Gilap, Wonogiri.” *Skripsi Sarjana*. Yogyakarta: Fakultas Ilmu Budaya UGM.
- Fajari, Nia Maniarti Etie. 2007. “Pemanfaatan Artefak Tulang Untuk Eksploitasi Vegetasi Di Situs Gua Song Blendrong: Kajian Berdasarkan Analisis Residu.” *Skripsi Sarjana*. Yogyakarta: Fakultas Ilmu Budaya UGM.
- Fajari, Nia Marniati Etie. 2023. “Keanekaragaman Vegetasi Dan Pemanfaatannya Pada Masa Prasejarah Di Situs Gua Dan Ceruk Perbukitan Karst Kotabaru, Kalimantan Selatan.” *Tesis Magister*. Yogyakarta: Fakultas Ilmu Budaya UGM.
- FAO. 1979. *FAO-UNESCO Soil Map of the World*. Vol. IX. Paris: UNESCO.
- Fenwick, Rohan S. H., Carol J. Lentfer, and Marshall I. Weisler. 2011. “Palm Reading: A Pilot Study to Discriminate Phytoliths of Four Arecaceae (Palmae) Taxa.” *Journal of Archaeological Science* 38(9):2190–99. doi: 10.1016/j.jas.2011.03.016.

- Fernández-Pérez, Natasha A., and Christine A. Hastorf. 2018. *UC Berkeley Archaeobotany Laboratory Report #86: Compilation of Phytolith and Starch Images of Taxa Relevant to the Contemporary Caribbean*. California.
- Flach, M., and F. Rumawas, eds. 1996. *Plant Resources of South-East Asia No.9: Plants Yielding Non-Seed Carbohydrates*. Vol. 9. Leiden: Backhuys Publisher.
- Fullagar, Richard, Judith Field, Tim Denham, and Carol Lentfer. 2006a. "Early and Mid Holocene Tool-Use and Processing of Taro (*Colocasia Esculenta*), Yam (*Dioscorea Sp.*) and Other Plants at Kuk Swamp in the Highlands of Papua New Guinea." *Journal of Archaeological Science* 33(5):595–614. doi: 10.1016/J.JAS.2005.07.020.
- Fullagar, Richard, Judith Field, Tim Denham, and Carol Lentfer. 2006b. "Early and Mid Holocene Tool-Use and Processing of Taro (*Colocasia Esculenta*), Yam (*Dioscorea Sp.*) and Other Plants at Kuk Swamp in the Highlands of Papua New Guinea." *Journal of Archaeological Science* 33(5):595–614. doi: 10.1016/j.jas.2005.07.020.
- Fullagar, Richard, Judith Field, Tim Denham, and Carol Lentfer. 2006c. "Early and Mid Holocene Tool-Use and Processing of Taro (*Colocasia Esculenta*), Yam (*Dioscorea Sp.*) and Other Plants at Kuk Swamp in the Highlands of Papua New Guinea." *Journal of Archaeological Science* 33(5):595–614. doi: 10.1016/J.JAS.2005.07.020.
- Fuller, Dorian Q., and Cristina Cobo Castillo. 2021. "The Origins and Spread of Cereal Agriculture in Mainland Southeast Asia." Pp. 45–60 in *The World of Linguistics: The Languages and Linguistics of Mainland Southeast Asia*. Vol. 8, edited by P. Sidwell and M. Jenny. Berlin: De Gruyter Mouton.
- Fuller, Dorian Q., and Cristina Cobo Castillo. 2022. "Cereals of Southeast Asia." Pp. 299–320 in *The Oxford Handbook of Early Southeast Asia*, edited by C. F. Higham and N. C. Kim. Oxford: Oxford University Press.
- Fuller, Dorian Q. ;., Cristina; Castillo, and Eleanor Kingwell-banham. 2019. "Rice : A User Guide for Archaeologists 2019." *Institute of Archaeology, University College London* 1–38.
- Gabasio, Martine, Jacques Evin, Gaston Bernard Arnal, and Philippe Andrieux. 1986. "Origins of Carbon in Potsherds." *Radiocarbon* 28(2A):711–18. doi: 10.1017/S0033822200007931.
- Galliard, T., and P. Bowler. 1987. "Morphology and Composition of Starch." Pp. 55–78 in *Starch: Properties and Potential*, edited by T. Galliard. New Jersey: John Wiley and Sons, Inc.
- García-Granero, Juan José. 2020. "Starch Taphonomy, Equifinality and the Importance of Context: Some Notes on the Identification of Food Processing through Starch Grain Analysis." *Journal of Archaeological Science* 124:105267. doi: 10.1016/J.JAS.2020.105267.
- Gosling, J. F. W. L. 1933. "De Toradja's van Galoempang." *Kolonial Tijdschrift* 22([Originally prepared as "Memorie van het district Galoempang van de afdeeling Mamoejdjoe." *Memorie van Overgave*, 1924.]):53–84.

- Grubben, G. J. H., and Soetjipto Partohardjono, eds. 1996. *Plant Resources of South-East Asia No 10: Cereals*. Bogor: Prosea Foundation.
- Gu, Yansheng, Hongye Liu, Hanlin Wang, Rencheng Li, and Jianxin Yu. 2016. "Phytoliths as a Method of Identification for Three Genera of Woody Bamboos (Bambusoideae) in Tropical Southwest China." *Journal of Archaeological Science* 68:46–53. doi: 10.1016/j.jas.2015.08.003.
- Guedes, Jade d'Alpoim, Ming Jiang, Kunyu He, Xiaohong Wu, and Zhanghua Jiang. 2013. "Site of Baodun Yields Earliest Evidence for the Spread of Rice and Foxtail Millet Agriculture to South-West China." *Antiquity* 87(337):758–71. doi: 10.1017/S0003598X00049449.
- de Guzman, C. C., and J. S. Siemonsma, eds. 1999. *Plant Resource of South-East Asia No. 13: Spices*. Leiden: Backhuys Publishers.
- Hafliger, E., and H. Scholz. 1981. *Grass Weeds*. Vol. 2. Basle: Ciba-Geigy.
- Hardy, Karen, Tony Blakeney, Les Copeland, Jennifer Kirkham, Richard Wrangham, and Matthew Collins. 2009. "Starch Granules, Dental Calculus and New Perspectives on Ancient Diet." *Journal of Archaeological Science* 36(2):248–55. doi: 10.1016/J.JAS.2008.09.015.
- Hart, Thomas C. 2011. "Evaluating the Usefulness of Phytoliths and Starch Grains Found on Survey Artifacts." *Journal of Archaeological Science* 38(12):3244–53. doi: 10.1016/J.JAS.2011.06.034.
- Harvey, Emma L., and Dorian Q. Fuller. 2005. "Investigating Crop Processing Using Phytolith Analysis: The Example of Rice and Millets." *Journal of Archaeological Science* 32(5):739–52. doi: 10.1016/j.jas.2004.12.010.
- Hascaryo, Agus Tri. 2019. "Studi Geoarkeologi Bagian Utara Jawa Tengah Untuk Rekonstruksi Lingkungan Hidup, Okupasi, Dan Jelajah Manusia Purba Selama Zaman Kuartar." *Disertasi*. Bandung: Institut Teknologi Bandung.
- Heekeren, H. R. 1958. *The Bronze-Iron Age of Indonesia*. Springer Netherlands.
- Henry, Amanda G. 2014. "Formation and Taphonomic Processes Affecting Starch Granules." Pp. 35–50 in *Method and Theory in Paleoethnobotany*, edited by J. M. Marston, J. D. Guedes, and C. Warinner. Colorado: University Press of Colorado.
- Henry, Amanda G., Holly F. Hudson, and Dolores R. Piperno. 2009. "Changes in Starch Grain Morphologies from Cooking." *Journal of Archaeological Science* 36(3):915–22. doi: 10.1016/J.JAS.2008.11.008.
- Hidayah, Ati Rati. 2017. "Pemanfaatan Kerang Dan Tumbuhan Di Situs Gua Gede, Pulau Nusa Penida, Bali." *Tesis Magister*. Yogyakarta: Fakultas Ilmu Budaya UGM.
- Hoppál, Krisztina, Bérénice Bellina, and Laure Dussubieux. 2023. "Southeast Asia and the Mediterranean World at the Turn of the First Millennium Ce: Networks, Commodities and Cultural Reception." *Cambridge Archaeological Journal* 1–24. doi: 10.1017/S0959774323000264.

- Horrocks, M. 2005. "A Combined Procedure for Recovering Phytoliths and Starch Residues from Soils, Sedimentary Deposits and Similar Materials." *Journal of Archaeological Science* 32(8):1169–75. doi: 10.1016/J.JAS.2005.02.014.
- Horrocks, M. 2005. "A Combined Procedure for Recovering Phytoliths and Starch Residues from Soils, Sedimentary Deposits and Similar Materials." *Journal of Archaeological Science* 32(8):1169–75. doi: 10.1016/J.JAS.2005.02.014.
- Horrocks, Mark. 2020. "Recovering Plant Microfossils from Archaeological and Other Palaeoenvironmental Deposits: A Practical Guide Developed from Pacific Region Experience." *Asian Perspectives* 59(1):186–207. doi: 10.1353/ASI.2020.0012.
- Horrocks, Mark, and Patrick D. Nunn. 2007. "Evidence for Introduced Taro (*Colocasia Esculenta*) and Lesser Yam (*Dioscorea Esculenta*) in Lapita-Era (c. 3050–2500 Cal. Yr BP) Deposits from Bourewa, Southwest Viti Levu Island, Fiji." *Journal of Archaeological Science* 34(5):739–48. doi: 10.1016/J.JAS.2006.07.011.
- Horrocks, Mark, and Robert B. Rechtman. 2009. "Sweet Potato (*Ipomoea Batatas*) and Banana (*Musa Sp.*) Microfossils in Deposits from the Kona Field System, Island of Hawaii." *Journal of Archaeological Science* 36(5):1115–26. doi: 10.1016/j.jas.2008.12.014.
- ICSN. 2011. "The International Code for Starch Nomenclature." Retrieved March 16, 2023 (<http://fossilfarm.org/ICSN/Code.html>).
- Idrus, Ibrahim Hane. 2015. "Kajian Lingkungan Purba Mikro Pada Situs Gua Kidang, Desa Tinapan, Kecamatan Todanan, Kabupaten Blora (Analisis Fitolit)." *Skripsi Sarjana*. Yogyakarta: Fakultas Ilmu Budaya UGM.
- Intan, Muh. Fadlan S. 2007. "Lingkungan Makro." Pp. 1–142 in *Arkeologi & Etnografi Kalumpang Kabupaten Mamuju, Provinsi Sulawesi Barat*, edited by T. Simanjuntak, Muh. F. S. Intan, and M. I. Mahmud. Jakarta: Pusat Penelitian Arkeologi Nasional.
- International Committee for Phytolith Taxonomy (ICPT). 2019a. "International Code for Phytolith Nomenclature (ICPN) 2.0." *Annals of Botany* 124:189–99. doi: 10.1093/aob/mcz064.
- International Committee for Phytolith Taxonomy (ICPT). 2019b. "International Code for Phytolith Nomenclature (ICPN) 2.0." *Annals of Botany* 124(2):189–99. doi: 10.1093/aob/mcz064.
- International Committee for Phytolith Taxonomy (ICPT). 2019c. "International Code for Phytolith Nomenclature (ICPN) 2.0. Supplementary Information: Morphotype Descriptions." *Annals of Botany* 124:189–99.
- Irfan, Muhammad, Muhammad Aamer Maqsood, Hafeez ur Rehman, Wajid Mahboob, Nadeem Sarwar, Osama Bin Abdul Hafeez, Saddam Hussain, Sezai Ercisli, Muhammad Akhtar, and Tariq Aziz. 2023. "Silicon Nutrition in Plants under Water-Deficit Conditions: Overview and Prospects." *Water* 15(4):1–20. doi: 10.3390/W15040739.

- Jenkins, Emma. 2009. "Phytolith Taphonomy: A Comparison of Dry Ashing and Acid Extraction on the Breakdown of Conjoined Phytoliths Formed in Triticum Durum." *Journal of Archaeological Science* 36(10):2402–7. doi: 10.1016/j.jas.2009.06.028.
- Jones, V. J. 2013. "Diatom Introduction" edited by S. A. Elias and C. J. Mock. *Encyclopedia of Quaternary Science* 471–81.
- Juo, Anthony S. R., and Kathrin Franzluebbers. 2003. *Tropical Soils: Properties and Management of Sustainable Agriculture*. Oxford: Oxford University Press.
- Kingwell-Banham, Eleanor, Wijerathne Bohingamuwa, Nimal Perera, Gamini Adikari, Alison Crowther, Dorian Q. Fuller, and Nicole Boivin. 2018. "Spice and Rice: Pepper, Cloves and Everyday Cereal Foods at the Ancient Port of Mantai, Sri Lanka." *Antiquity* 92(366):1552–70. doi: 10.15184/AQY.2018.168.
- Kirch, Patrick V. 1980. "The Archaeological Study of Adaptation: Theoretical and Methodological Issues." *Advances in Archaeological Method and Theory* 101–56. doi: 10.1016/B978-0-12-003103-0.50008-3.
- Kislev, Mordechai E., Anat Hartmann, and Ehud Galili. 2004. "Archaeobotanical and Archaeoentomological Evidence from a Well at Atlit-Yam Indicates Colder, More Humid Climate on the Israeli Coast during the PPNC Period." *Journal of Archaeological Science* 31(9):1301–10. doi: 10.1016/J.JAS.2004.02.010.
- Kosso, Peter. 1991. "Method in Archaeology: Middle-Range Theory as Hermeneutics." *American Antiquity* 56(4):621–27. doi: 10.2307/281540.
- Kruij, Albertus Christiaan. 1920. "De To Seko in Midden-Celebes." *Bijdragen Tot de Taal-, Land- En Volkunde van Nederlandsch-Indië* 76(3de/4de):398–430.
- Kruij, Albertus Christiaan. 1923. "Kopen in Midden Celebes." *Mededeelingen Der Koninklijke Akademie van Wetenschappen, Afdeling Letterkunde: Geschiedenis, Volkenkunde, Rechtswetenschap* 5(5):149–78.
- Kruij, Albertus Christiaan. 1942. "De Bewoners van Het Stroomgebied van de Karama in Midden Celebes." *Tijdschrift van Het Koninklijk Nederlandsch Aardrijkskundig Genootschap* 59:702–41.
- Kubat, Jülide, Alessia Nava, Luca Bondioli, M. Christopher Dean, Clément Zanolli, Nicolas Bourgon, Anne Marie Bacon, Fabrice Demeter, Beatrice Peripoli, Richard Albert, Tina Lüdecke, Christine Hertler, Patrick Mahoney, Ottmar Kullmer, Friedemann Schrenk, and Wolfgang Müller. 2023. "Dietary Strategies of Pleistocene Pongo Sp. and Homo Erectus on Java (Indonesia)." *Nature Ecology & Evolution* 7(2):279–89. doi: 10.1038/s41559-022-01947-0.
- Kumar, Santosh, Milan Soukup, and Rivka Elbaum. 2017. "Silicification in Grasses: Variation between Different Cell Types." *Frontiers in Plant Science* 8:438. doi: 10.3389/FPLS.2017.00438/BIBTEX.
- Langhe, Edmond De, Luc Vrydaghs, Pierre De, Xavier Perrier, and Tim Denham. 2009. "Why Bananas Matter: An Introduction to the History of Banana Domestication." *Ethnobotany Research and Applications* 7:165–77.

- Lape, Peter, Emily Peterson, Daud Aris Tanudirjo, Chung-Ching Shiung, Gyoung-Ah Lee, Judith Field, and Adelle Coster. 2018. "New Data from an Open Neolithic Site in Eastern Indonesia." *Asian Perspectives* 57(2):222–43.
- Leng, Loh Wei, and Chi Seck Choo. 2019. "Maritime Southeast Asia in Global Trade in Pre-Modern Times: A Historical Geography Perspective." *Samudera - Journal of Maritime and Coastal Studies* 1(1):1–15. doi: 10.22452/samudera.vollno1.1.
- Lentfer, Carol J., and M. Therin. 2006. "A Protocol for Extraction of Starch from Sediments." Pp. 159–61 in *Ancient Starch Research*, edited by R. Torrence and H. Barton. California: Left Coast Press.
- Li, W., J. R. Pagán-Jiménez, C. Tsoraki, L. Yao, and A. Van Gijn. 2020. "Influence of Grinding on the Preservation of Starch Grains from Rice." *Archaeometry* 62(1):157–71. doi: 10.1111/arcm.12510.
- Liu, Li, Neil A. Duncan, Xingcan Chen, Guoxiang Liu, and Hao Zhao. 2015. "Plant Domestication, Cultivation, and Foraging by the First Farmers in Early Neolithic Northeast China: Evidence from Microbotanical Remains." *The Holocene* 25(12):1965–78. doi: 10.1177/0959683615596830.
- Loy, Thomas H. 1994. "Methods in the Analysis of Starch Residues on Prehistoric Stone Tools." Pp. 78–106 in *Tropical Archaeobotany applications and new developments*, edited by J. G. Healer. London: Routledge.
- Loy, Thomas H., Matthew Spriggs, and Stephen Wickler. 1992. "Direct Evidence for Human Use of Plants 28,000 Years Ago: Starch Residues on Stone Artefacts from the Northern Solomon Islands." *Antiquity* 66(253):898–912. doi: 10.1017/S0003598X00044811.
- Lü, Houyuan, Yumei Li, Jianping Zhang, Xiaoyan Yang, Maolin Ye, Quan Li, Can Wang, and Naiqin Wu. 2014. "Component and Simulation of the 4,000-Year-Old Noodles Excavated from the Archaeological Site of Lajia in Qinghai, China." *Chinese Science Bulletin* 59(35):5136–52. doi: 10.1007/S11434-014-0663-1/METRICS.
- Lu, Houyuan, and Kam Biu Liu. 2003. "Morphological Variations of Lobate Phytoliths from Grasses in China and the South-Eastern United States." *Diversity and Distributions* 9(1):73–87. doi: 10.1046/j.1472-4642.2003.00166.x.
- Ma, Zhi Kun, Xiao Yan Yang, Chi Zhang, Yong Gang Sun, and Xin Jia. 2016. "Early Millet Use in West Liaohe Area during Early-Middle Holocene." *Science China Earth Sciences* 59(8):1554–61. doi: 10.1007/S11430-015-5257-5/METRICS.
- Manguin, Pierre-Yves, and Agustijanto Indradjaja. 2011. "The Batujaya Site: New Evidence of Early Indian Influence in West Java." Pp. 83–112 in *Early Interactions between South and Southeast Asia: Reflections on Cross-Cultural Exchange*, edited by P.-Y. Manguin, A. Mani, and G. Wade. Singapore: ISEAS.

- McMichael, Crystal H., Mark B. Bush, Miles R. Silman, Dolores R. Piperno, Marco Raczka, Luiz C. Lobato, Monica Zimmerman, Stephen Hagen, and Michael Palace. 2013. "Historical Fire and Bamboo Dynamics in Western Amazonia." *Journal of Biogeography* 40(2):299–309. doi: 10.1111/JBI.12002.
- Megaloudi, Fragkiska. 2005. "Wild and Cultivated Vegetables, Herbs and Spices in Greek Antiquity (900 B.C. to 400 B.C.)." *Environmental Archaeology* 10(1):73–82. doi: 10.1179/ENV.2005.10.1.73.
- Miller, J. I. 1969. *The Spice Trade of the Roman Empire 29 B.C. to A.D. 641*. Oxford: Claredon Press.
- Mindzie, Christophe Mbida, Hughes Doutrelepont, Luc Vrydaghs, Rony L. Swennen, Rudy J. Swennen, Hans Beeckman, Edmond De Langhe, and Pierre De Maret. 2001. "First Archaeological Evidence of Banana Cultivation in Central Africa during the Third Millennium before Present." *Vegetation History and Archaeobotany* 10(1):1–6.
- Mir-Makhamad, Basira, Sören Stark, Sirojiddin Mirzaakhmedov, Husniddin Rahmonov, and Robert N. Spengler. 2023. "Food Globalization in Southern Central Asia: Archaeobotany at Bukhara between Antiquity and the Middle Ages." *Archaeological and Anthropological Sciences* 15(8):1–18. doi: 10.1007/S12520-023-01827-Z/FIGURES/6.
- Muasomah. 2011. "Kemungkinan Pemanfaatan Tumbuhan Di Situs Kendenglembu, Kabupaten Banyuwangi, Provinsi Jawa Timur: Kajian Berdasarkan Analisis Residu." *Skripsi Sarjana*. Yogyakarta: Fakultas Ilmu Budaya UGM.
- Muda, Khadijah Thahir. 2018. "Bukti-Bukti Penghunian Sejak Fase Praneolitik Sampai Resen Di Situs Delubang Dan Situs Toroan Madura." *Disertasi*. Yogyakarta: Fakultas Ilmu Budaya UGM.
- Murungi, May L., and Marion K. Bamford. 2020. "Revised Taxonomic Interpretations of Cyperaceae Phytoliths for (Paleo)Botanical Studies with Some Notes on Terminology." *Review of Palaeobotany and Palynology* 275:104189. doi: 10.1016/j.revpalbo.2020.104189.
- Musaubach, María Gabriela, Anabela Plos, and María Del Pilar Babot. 2013. "Differentiation of Archaeological Maize (*Zea Mays* L.) from Native Wild Grasses Based on Starch Grain Morphology. Cases from the Central Pampas of Argentina." *Journal of Archaeological Science* 40(2):1186–93. doi: 10.1016/J.JAS.2012.09.026.
- Naiman, Robert J., Henri Décamps, and Michael E. McClain. 2005. *Riparia: Ecology, Conservation, and Management of Streamside Communities*. Burlington: Elsevier Academic Press.
- Namdar, Ivory, Ronny Neumann, and Steve Weiner. 2010. "Residue Analysis of Chalices from the Repository Pit." Pp. 167–73 in *Yevneh I: The Excavation of the "Temple Hill" Repository Pit and the Cult Stands*. Vol. 1, edited by R. Kletter, I. Ziffer, and W. Zwickel. Fribourg: Academic Press.

- Neef, R. 1989. "Plants." Pp. 30–37 in *Picking up the threads: A continuing review of excavations at Deir Alla, Jordan*, edited by G. van der Kooij and M. M. Ibrahim. Leiden: University of Leiden Archaeological Centre.
- Neumann, Katharina, Ahmed Fahmy, Laurent Lespez, Aziz Ballouche, and Eric Huysecom. 2009. "The Early Holocene Palaeoenvironment of Ounjougou (Mali): Phytoliths in a Multiproxy Context." *Palaeogeography, Palaeoclimatology, Palaeoecology* 276(1–4):87–106. doi: 10.1016/J.PALAEO.2009.03.001.
- Nisa, Resty Khairul. 2023. "Identifikasi Pemanfaatan Tanaman Pada Batu Pipisan Dan Gandik Yang Ditemukan Di Situs Liyangan Melalui Analisis Starch." *Skripsi Sarjana*. Yogyakarta: Fakultas Ilmu Budaya UGM.
- Octina, Rooseline Linda. 2013. "Pemanfaatan Tumbuhan Di Situs Song Towo: Berdasarkan Hasil Analisis Residu Fitolit Pada Artefak Batu Dan Tulang." *Skripsi Sarjana*. Yogyakarta: Fakultas Ilmu Budaya UGM.
- Octina, Rooseline Linda. 2017. "Mikrofosil Tumbuhan (Phytoliths) Situs Wineki Dan Padang Hadoa, Di Kawasan Lembah Besoa, Sulawesi Tengah." *KALPATARU* 26 No. 2:93–106. doi: 10.24832/kpt.v26i2.317.
- Octina, Rooseline Linda, and M. Dziyaul F. Arrozaeni. 2018. *Laporan Analisis Phytolith Sedimen Gua Kidang, Blora Jawa Tengah*. Yogyakarta.
- Ohrnberger, Dieter. 1999. *The Bamboos of the World: Annotated Nomenclature and Literature of the Species and the Higher and Lower Taxa*. Berlin: Elsevier Science.
- Okazaki, Masanori, Mitsuhsa Baba, Toshihiko Momose, Marcelo A. Quevedo, Ma Kristine, and L. Aban. 2020a. "Conical Projection Measurement of Sago Palm (Metroxylon Sagu Rottb.) Phytoliths in Leyte, Philippines." *Sago Palm* 28(1):22–28. doi: 10.57418/SAGOPALM.28.1_22.
- Okazaki, Masanori, Mitsuhsa Baba, Toshihiko Momose, Marcelo A. Quevedo, Ma Kristine, and L. Aban. 2020b. "Phytolith Assemblages in Sago Palm (Metroxylon Sagu Rottb.) Leaflets." *Sago Palm* 28(2):35–48. doi: 10.57418/SAGOPALM.28.2_35.
- Oldeman, L. R., and S. Darmiyati. 1977. "Agro-Climatic Map Of Sulawesi." *Central Research Institute for Agriculture*.
- Osawa, Takeshi, Hiromune Mitsuhashi, and Atushi Ushimaru. 2010. "River Confluences Enhance Riparian Plant Species Diversity." *Plant Ecology* 209(1):95–108.
- Oybak Dönmez, Emel. 2006. "Prehistoric and Medieval Plant Remains from Two Sites on the Euphrates, South-Eastern Turkey." *Turkish Journal of Botany* 30(1):11–38. doi: -.
- Pagán-Jiménez, Jaime R. 2007. *De Antiguos Pueblos y Culturas Botánicas En El Puerto Rico Indígena*. Oxford: British Archaeological Reports (BAR).
- Parr, J. F., and L. A. Sullivan. 2005. "Soil Carbon Sequestration in Phytoliths." *Soil Biology and Biochemistry* 37(1):117–24. doi: 10.1016/J.SOILBIO.2004.06.013.

- Parr, Jeff F. 2006. "Effect of Fire on Phytolith Coloration." *Geoarchaeology* 21(2):171–85. doi: 10.1002/gea.20102.
- Patridina, Esa Putra Bayu Gusti Gineung. 2018. "Sumberdaya Tumbuhan Dan Pemanfaatannya Di Situs Gua Makpan, Alor, Nusa Tenggara Timur (40.000-2.500 BP)." *Tesis Magister*. Yogyakarta: Fakultas Ilmu Budaya UGM.
- Paz, Victor. 2004. "Of Nuts, Seeds, and Tubers: The Archaeobotanical Evidence from Leang Burung 1." Pp. 191–220 in *Quaternary Research in Indonesia*. Vol. 18, edited by S. G. Keates and J. M. Pasveer. Leiden: A.A. Balkema Publishers.
- Paz, Victor. 2005. "Rock Shelters, Caves, and Archaeobotany in Island Southeast Asia." *Asian Perspectives* 44(1):107–18. doi: 10.1086/658682.
- Pearsall, Deborah M. 1982. "Phytolith Analysis: Applications of a New Paleoethnobotanical Technique in Archaeology." *American Anthropologist* 84(4):862–71. doi: 10.1525/aa.1982.84.4.02a00100.
- Pearsall, Deborah M. 2014. "Formation Process of Pollen and Phytoliths." Pp. 51–77 in *Method and Theory in Paleoethnobotany*, edited by J. M. Marston, J. D'Alpoim Guedes, and C. Warinner. Colorado: University Press of Colorado.
- Pearsall, Deborah M., Ann Biddle, Karol Chandler-Ezell, Shawn Collins, Neil Duncan, Bill Grimm, Thomas Hart, Amanda Logan, Meghann O'Brien, Sara Stewart, Cesar Veintimilla, and Zhijun Zhao. 2015. "Phytoliths in the Flora of Ecuador: The University of Missouri Online Phytolith Database." *Flora of Ecuador Project*. Retrieved February 15, 2024 (<http://phytolith.missouri.edu>).
- Pearsall, Deborah M., Dolores R. Piperno, Elizabeth H. Dinan, Marcelle Umlauf, Zhuun Zhao, and Robert A. Benfer. 1995. "Distinguishing Rice (*Oryza Sativa* Poaceae) from Wild *Oryza* Species through Phytolith Analysis: Results of Preliminary Research." *Economic Botany* 49(2):183–96. doi: 10.1007/BF02862923.
- Perdana, J. M. V. Hanindyo. 2022. "Variasi Vegetasi Situs Cenra Cenrae Sulawesi Selatan Berdasarkan Analisis Fitolit." *Skripsi Sarjana*. Yogyakarta: Fakultas Ilmu Budaya UGM.
- Pérez, Serge, Paul M. Baldwin, and Daniel J. Gallant. 2009. "Structural Features of Starch Granules I." Pp. 149–92 in *Starch: Chemistry and Technology*, edited by J. N. BeMiller and R. I. Whistler. San Diego: Academic Press.
- Pérez, Serge, and Eric Bertoft. 2010. "The Molecular Structures of Starch Components and Their Contribution to the Architecture of Starch Granules: A Comprehensive Review." *Starch - Stärke* 62(8):389–420. doi: 10.1002/STAR.201000013.
- Piperno, Dolores R. 2006. *Phytoliths: A Comprehensive Guide for Archaeologists and Paleoecologists*. Oxford: Altamira Press.
- Piperno, Dolores R., and Peter Becker. 1996. "Vegetational History of a Site in the Central Amazon Basin Derived from Phytolith and Charcoal Records from Natural Soils." *Quaternary Research* 45(2):202–9. doi: 10.1006/QRES.1996.0020.

- Pratama, Aldhi Wahyu. 2020. "Pemanfaatan Tumbuhan Di Situs Doro Mpana, Dompu, Nusa Tenggara Barat Berdasarkan Analisis Fitolit Pada Residu Gerabah." *Skripsi Sarjana*. Yogyakarta: Fakultas Ilmu Budaya UGM.
- Preiss, Jack. 2009. "Biochemistry and Molecular Biology of Starch Biosynthesis." Pp. 83–149 in *Starch: Chemistry and Technology*, edited by J. N. BeMiller and R. L. Whistler. San Diego: Academic Press.
- Preiss, Jack. 2018. "Plant Starch Synthesis." Pp. 3–95 in *Starch in Food: Structure, Function and Applications*, edited by M. Sjöö and L. Nilsson. Duxford: Woodhead Publishing.
- Primawan, Ramanda. 2011. "Eksplorasi Vegetasi Di Situs Song Terus Wonogiri Pada Masa Prasejarah." *Skripsi Sarjana*. Yogyakarta: Fakultas Ilmu Budaya UGM.
- Priswanto, Hery. 2023. "Ragam Tanaman Di Situs Liyangan Berdasarkan Analisis Fitolit." *Tesis Magister*. Yogyakarta: Fakultas Ilmu Budaya UGM.
- Ratman, N., and S. Atmawinata. 2010. "Peta Geologi Lembar Mamuju, Sulawesi."
- Reichert, Edward Tyson. 1913. *The Differentiation and Specificity of Starches in Relation to Genera, Species, Etc.* Vol. 1. Washington D.C.: The Carnegie Institution of Washington.
- Rizky, Tito M. 2021. "Pemanfaatan Tumbuhan Di Situs Plawangan Berdasarkan Analisis Residu Pada Gerabah." *Skripsi Sarjana*. Yogyakarta: Fakultas Ilmu Budaya UGM.
- Santiago-Marrero, Carlos G., and Jaime R. Pagán-Jiménez. 2023. *Protocol for the Double Extraction of Starch Grains and Phytoliths from Sediments, V.1*. doi: <https://dx.doi.org/10.17504/protocols.io.5jyl8jldq8g2w/v1>.
- Santos, G. M., A. Alexandre, J. R. Southon, K. K. Treseder, R. Corbineau, and P. E. Reyerson. 2012. "Possible Source of Ancient Carbon in Phytolith Concentrates from Harvested Grasses." *Biogeosciences* 9(5):1873–84. doi: 10.5194/BG-9-1873-2012.
- Sastrapradja, Setijadi, and Johar Jumiati Afriastini. 1980. *Jenis Rumput Dataran Rendah*. Lembaga Biologi Nasional - LIPI.
- Schiffer, Michael B. 1988. "The Structure of Archaeological Theory." *American Antiquity* 53(3):461–85. doi: 10.2307/281212.
- Sefa-Dedeh, Samuel, and Emmanuel Kofi-Agyir Sackey. 2002. "Starch Structure and Some Properties of Cocoyam (*Xanthosoma Sagittifolium* and *Colocasia Esculenta*) Starch and Raphides." *Food Chemistry* 79(4):435–44. doi: 10.1016/S0308-8146(02)00194-2.
- Sharma, Rajat, Vinod Kumar, and Rakesh Kumar. 2019. "Distribution of Phytoliths in Plants: A Review." *Geology, Ecology, and Landscapes* 3(2):123–48. doi: 10.1080/24749508.2018.1522838.
- Simanjuntak, Truman, M. J. Morwood, M. Fadhlan S. Intan, Irfan Machmud, K. Grant, N. Somba, Bernadetta Akw, and D. Wahyu Utomo. 2008. "Minanga Sipakko and the Neolithic of the Karama River." Pp. 57–75 in *Austronesian in Sulawesi*. Jakarta: Center for Prehistoric and Austronesian Studies.

- Sipayo, R. Ely. 2020. *Mengenal Budaya Suku Tanalotong*. Makassar: Oase Intim.
- Skerman, P. J., and F. Riveros. 1990. *Tropical Grasses*. Rome: Food and Agriculture Organization of the United Nations.
- Solmaz, Tuğba, and Emel Oybak Dönmez. 2013. "Archaeobotanical Studies at the Urartian Site of Ayanis in Van Province, Eastern Turkey." *Turkish Journal of Botany* 37(2):282–96. doi: 10.3906/bot-1204-3.
- van Stein Callenfels, Pieter Vincent. 1951. "Prehistoric Sites on the Karama River." *Journal of East Asiatic Studies* 1(1):82–97.
- Stevanato, Mayra, Giliane Gessica Rasbold, Mauro Parolin, Leandro Domingos Luz, Edward Lo, Philip Weber, Rafael Trevisan, and Marcelo Galeazzi Caxambu. 2019. "New Characteristics of the Papillae Phytolith Morphotype Recovered from Eleven Genera of Cyperaceae." *Flora: Morphology, Distribution, Functional Ecology of Plants* 253(March):49–55. doi: 10.1016/j.flora.2019.03.012.
- Steward, Julian H. 1955. *Theory of Culture Change: The Methodology of Multilinear Evolution*. Chicago: University of Illinois Press.
- Strömberg, Caroline A. E., Regan E. Dunn, Camilla Crifò, and Elisha B. Harris. 2018. "Phytoliths in Paleoecology" edited by D. A. Croft, D. F. Su, and S. W. Simpson. *Methods in Paleoecology: Reconstructing Cenozoic Terrestrial Environments and Ecological Communities* (November):235–87.
- Sutton, Mark Q., and E. N. Anderson. 2014. *Introduction to Cultural Ecology*. 3rd ed. Plymouth: AltaMira Press.
- Syamsiah, St. Fatmah Hiola, Oslan Jumaidi, and Andi Mu'nisa. 2016. *Tumbuhan Obat Tradisional Etnis Lokal Sulawesi Barat*. Makassar: Alauddin University Press.
- Tapundu, Apriyanto, S., Syariful Anam, and Ramadhani Pitopang. 2015. "Studi Etnobotani Tumbuhan Obat Pada Suku Seko Di Desa Tanah Harapan, Kabupaten Sigi, Sulawesi Tengah." *Biocелеbes* 9(2):66–86.
- Thoms, Alston V., Andrew R. Laurence, Laura Short, and Masahiro Kamiya. 2014. "Baking Geophytes and Tracking Microfossils: Taphonomic Implications for Earth-Oven and Paleodietary Research." *Journal of Archaeological Method and Theory* 22(4):1038–70. doi: 10.1007/S10816-014-9216-9/FIGURES/11.
- Tim Kajian. 2014. *Penyelamatan Situs Cagar Budaya Di Daerah Aliran Sungai Karama Dan Bone Hau [Rescue Study of the Heritage in Karama and The Bone Hau Watershed]*. Jakarta.
- Torrence, Robin, and Huw Barton, eds. 2006. *Ancient Starch Research*. New York: Routledge.
- Twiss, P. C., Erwin Suess, and R. M. Smith. 1969. "Morphological Classification of Grass Phytoliths." *Soil Science Society of America Journal* 33(1):109–15. doi: 10.2136/sssaj1969.03615995003300010030x.
- Twiss, Page C. 1992. "Predicted World Distribution of C3 and C4 Grass Phytoliths." Pp. 113–28 in *Phytolith Systematics: Emerging Issues*, edited by G. Rapp and S. C. Mulholland. New York: Springer.

- Van der Veen, Marijke, and Jacob Morales. 2015. "The Roman and Islamic Spice Trade: New Archaeological Evidence." *Journal of Ethnopharmacology* 167:54–63. doi: 10.1016/j.jep.2014.09.036.
- Wade, Kali, Lisa Marie Shillito, John M. Marston, and Clive Bonsall. 2019. "Assessing the Potential of Phytolith Analysis to Investigate Local Environment and Prehistoric Plant Resource Use in Temperate Regions: A Case Study from Williamson's Moss, Cumbria, Britain." *Environmental Archaeology* 0(0):1–14. doi: 10.1080/14614103.2019.1619980.
- Walstra, Pieter. 2003. *Physical Chemistry of Foods*. New York: Marcel Dekker.
- Wang, Can, Houyuan Lu, Jianping Zhang, Limi Mao, and Yong Ge. 2019. "Bulliform Phytolith Size of Rice and Its Correlation With Hydrothermal Environment: A Preliminary Morphological Study on Species in Southern China." *Frontiers in Plant Science* 10(August):1–15. doi: 10.3389/fpls.2019.01037.
- Wang, Jiajing, Li Liu, Terry Ball, Linjie Yu, Yuanqing Li, and Fulai Xing. 2016. "Revealing a 5,000-y-Old Beer Recipe in China." *Proceedings of the National Academy of Sciences of the United States of America* 113(23):6444–48. doi: 10.1073/PNAS.1601465113/SUPPL_FILE/PNAS.201601465SI.PDF.
- Wang, Jiajing, Xueye Zhao, Hui Wang, and Li Liu. 2019. "Plant Exploitation of the First Farmers in Northwest China: Microbotanical Evidence from Dadiwan." *Quaternary International* 529:3–9. doi: 10.1016/J.QUAINT.2018.10.019.
- Wang, Weiwei, Khanh Trung Kien Nguyen, Chunguang Zhao, and Hsiao Chun Hung. 2023. "Earliest Curry in Southeast Asia and the Global Spice Trade 2000 Years Ago." *Science Advances* 9(29). doi: 10.1126/SCIADV.ADH5517/SUPPL_FILE/SCIADV.ADH5517_SM.PDF.
- Weisskopf, Alison. 2017. "A Wet and Dry Story: Distinguishing Rice and Millet Arable Systems Using Phytoliths." *Vegetation History and Archaeobotany* 26(1):99–109. doi: 10.1007/s00334-016-0593-8.
- Westphal, E., and P. C. M. Jansen, eds. 1989. *Plant Resource of South-East Asia: A Selection*. Wageningen: Pudoc.
- Whitten, Tony, Greg S. Henderson, and Muslimin Mustafa. 2002. *The Ecology of Sulawesi*. Vol. 4. 1st edition. Singapore: Periplus.
- Williams, Robert N., Duncan Wright, Alison Crowther, and Tim Denham. 2020. "Multidisciplinary Evidence for Early Banana (*Musa* Cvs.) Cultivation on Mabuyag Island, Torres Strait." *Nature Ecology & Evolution* 4(10):1342–50. doi: 10.1038/s41559-020-1278-3.
- Yang, Xiaoyan, Jianping Zhang, Linda Perry, Zhikun Ma, Zhiwei Wan, Mingqi Li, Xianmin Diao, and Houyuan Lu. 2012. "From the Modern to the Archaeological: Starch Grains from Millets and Their Wild Relatives in China." *Journal of Archaeological Science* 39(2):247–54. doi: 10.1016/J.JAS.2011.09.001.
- Yang, Yu Zhang, Wei Ya Li, Ling Yao, Zhi Jie Cheng, Wu Hong Luo, Ju Zhong Zhang, Liu Gen Lin, Hui Yuan Gan, and Long Yan. 2016. "Plant Food Sources

- and Stone Tools' Function at the Site of Shunshanji Based on Starch Grain Analysis." *Science China Earth Sciences* 59(8):1574–82. doi: 10.1007/S11430-016-5321-9/METRICS.
- Young, Danielle N., Neil A. Duncan, and John H. Walker. 2023. "Starch Grain Analysis of Ceramic Residue from Forest Islands Associated with Raised Fields in West Central Mojos, Bolivia." *Journal of Archaeological Science: Reports* 47:103761. doi: 10.1016/J.JASREP.2022.103761.
- Zhang, Pingyi, Roy L. Whistler, James N. Bemiller, and Bruce R. Hamaker. 2005. "Banana Starch: Production, Physicochemical Properties, and Digestibility—a Review." *Carbohydrate Polymers* 59(4):443–58. doi: 10.1016/J.CARBPOL.2004.10.014.
- Zhao, Zhijun, Deborah M. Pearsall, Robert A. Benfer, and Dolores R. Piperno. 1998. "Distinguishing Rice (*Oryza Sativa* Poaceae) from Wild *Oryza* Species through Phytolith Analysis, II: Finalized Method." *Economic Botany* 52(2):134–45. doi: 10.1007/BF02861201.
- Zhen, Dong, Zhang Juzhong, Yang Yuzhang, Yao Ling, Li Weiya, Jia Qingyuan, Dong Zhen, Zhang Juzhong, Yang Yuzhang, Yao Ling, Li Weiya, and Jia Qingyuan. 2014. "Starch Grain Analysis Reveals the Utilization of Plant Food Resources at Shishanzi Site, Suixi County, Anhui Province." *Quaternary Sciences* 34(1):114–25. doi: 10.3969/J.ISSN.1001-7410.2014.14.
- Zhikun, Ma, Huan Xiujia, Ma Yongchao, Li Jun, and Yang Xiaoyan. 2018. "Ancient Starch Reveals Millet Farming in Northern Part of the North China Plain during Mid-Term Neolithic Period: A Case Study of the Jiangjialiang Site." *Quaternary Sciences* 38(5):1313–24. doi: 10.11928/J.ISSN.1001-7410.2018.05.23.
- Zumbroich, Thomas J. 2012. "From Mouth Fresheners to Erotic Perfumes: The Evolving Socio-Cultural Significance of Nutmeg, Mace and Cloves in South Asia." *EJournal of Indian Medicine* 5(2):37–97.
- Zurro, Debora. 2018. "One, Two, Three Phytoliths: Assessing the Minimum Phytolith Sum for Archaeological Studies." *Archaeological and Anthropological Sciences* 10(7):1673–91. doi: 10.1007/s12520-017-0479-4.