

Prof. ANDREA POLCARO, PhD

Curriculum Vitae

Personal Informations:

Nationality: Italian

Born in Rome on 09/01/1978

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Current position:

- Associate Professor in Near Eastern Archaeology (L-OR/05) from 6 April 2023 to date at Perugia University (Department of Humanities).

Past positions:

- Fixed-time Researcher (Type B) from 6 April 2020 to 5 April 2023 at Perugia University (Department of Humanities) for the Scientific Sector L-OR/05 (Near Eastern Archaeology).
- Contract professor in Near Eastern Archaeology at Perugia University, Department of Humanities from the Academic Year 2016/2017 to 2019/2020.
- Research Fellow signed on 1 July 2016 at Perugia University (Department of Humanities) in Near Eastern Archaeology, in the framework of the project: "Inside Ancient Materials through Non- Destructive Spectroscopic Analysis", renewed on 15 July 2017 for a second year to 14 July 2018.
- Fixed-time Researcher (Type A) from 20 May 2013 to 20 May 2016 at Perugia University (Department of Humanities) for the Scientific Sector L-OR/05 (Near Eastern Archaeology).
- Contract professor in Near Eastern Archaeology at Perugia University, Department of Humanities from the Academic Year 2008/2009 to 2012/2013.

Educational path:

- PhD student in Near Eastern Archaeology from 2003 to 2006 at Sapienza University of Rome. On 18 May 2007 he discuss the Phd thesis in Near Eastern Archaeology (XIX cycle): "*The Beginning of Urbanization in the Early Bronze Age I in Jordan: settlement and cemeteries analysis*".
- Master Degree in Near Eastern Archaeology at Sapienza University of Rome on 24 April 2003, vote 110/110 cum laude, with a thesis entitled: "*Necropolis and Funerary Costumes in Palestine from the Early Bronze Age I to the Early Bronze Age IIP*".

National Scientific Habilitation

- On 18/02/2014 he got the National Scientific Habilitation (ASN) as Associate Professor for the sector 10/N1. The ASN was renewed on 20/12/2019.

Teaching Experiences

- Since the Academic Year 2008/2009 to date he hold a course of 36 hours on "Near Eastern Archaeology" at Perugia University (*Department of Humanities*), MA Course in Archaeolo-

gy and History of Art.

- Since the Academic Year 2019/2020 to date he holds a course of 36 hours on “History of agriculture and ancient food” at Perugia University (*Department of Humanities*), BA Course in Economy and Culture of Alimentation (ECOCAL).
- Since the Academic Year 2020/2021 to date he holds a course of 36 hours on “Mediterranean Protohistory” at Perugia University (*Department of Humanities*), BA Course in Cultural Heritage.
- In the Academic Year 2013/2014 he held a Laboratory on “Sciences applied to Cultural Heritage”, in 2014/2015 and in 2015/2016 of “Drawing and digitalizing of ancient pottery”, of 75 hours. In the Academic Year 2020/2021 he held a second Laboratory on “Sciences applied to Cultural Heritage”, of 30 hours. Finally since 2021/2022 to date he held the Dedalo Laboratory on “Orientation to the methodologies of archaeological research and to the study of ancient artifacts”, of 30 hours by year.
- Since the Academic Year 2020/2021 (Cycle XXXVII) he is a member of the PhD College of Perugia University, Department of Humanities in “History, arts and languages in modern and ancient Europe”, Curriculum: “History and civilizations of the ancient world”.
- He was supervisor of 14 BA degree thesis and 15 MA degree thesis, and tutor of two PhD thesis.

Research activities and archaeological excavations

His main research activities are archaeological excavations and surveys in the Near East, begun in 1998. His main research topics are: Early Bronze Age Urbanization, megalithic architecture, funerary archaeology, cultural astronomy, trades and contacts in the Near East, in particular between Egypt and Southern Levant. During his researches he also deepens the GIS softwares applied on archaeological surveys (in particular ArchView, ArchGis, OziExplorer and the use of GPS systems for archaeological documentation) and the creation of applied databases. In his researches, he constantly used modern technologies for archaeology and for the study of ancient artifacts, like Raman and Micro-Raman analysis.

Directions of archaeological excavations

- Since 2012 to date he is co-director, together with Juan Ramon Muniz (Pontificia Facultad of Salamanca, Spain), of the Italian-Spanish Archaeological Expedition to Jebel al-Mutawwaq (Jordan). This archaeological project has the official permit by the Department of Antiquities of Jordan. It regards the study and the reservation of a huge megalithic cemetery with hundreds of well preserved dolmens, dated to the Early Bronze Age I. Since 2014 to date the expedition is supported by the Italian Ministry of Foreign Affairs and International Cooperation (MAECI) and by the Italian Embassy at Amman.
- Since 2025 to date he is the scientific director of the Archaeological Expedition on the Petrarvella Mount (Panicle, Italy). This archaeological project has the official permit by the “Soprintendenza Archeologia belle arti e paesaggio dell’Umbria” (*DG-ABAP - Decreto del Direttore generale rep. n. 980 - 17/06/2025*). The expedition, funded by the “Comune di Panicle” is carried on in the framework of the didactical archaeological laboratory “Deda-

lo” of the Department of Humanities of Perugia University and concerns the study of an archaeological site with multiple chronological phases, spanning from the Copper Age to the Middle Ages.

- From 2014 to 2022 he was co-director with Davide Nadali (Sapienza University of Rome) of a join excavation project at Nigin / Tell Zurghul in Iraq (Dhi-Qar); the project has the official permit by the SBAH (State Board of Antiquities and Heritage of Iraq) and is supported by the Italian Ministry of Foreign Affairs and International Cooperation (MAECI) and by the Italian Embassy at Baghdad. The site is a settlement of around 70 hectares, identified as Nigin, one of the three cities of the Sumerian State of Lagash. In 2016 the expedition received the affiliation to the American Schools of Oriental Research.
- From 2021 to 2023 he was co-director, together with Donatella Scortecci, of the archaeological expedition to the Madaba Cathedral in Jordan. This urban archaeological area has huge architectural remains of Byzantine Period, to be investigated, restored and protected in the framework of the AICS Project “Discovering Madaba”, with the final aim of the creation of a new archaeological park for the city of Madaba opened to the public.

Direction of projects of enchantment, restoration and fruition of Cultural Heritage in Jordan

- Since 01/02/2021 to date he is Scientific Director of the project “Discovering Madaba. A project of sustainable tourism” funded by the Italian Agency for Development Cooperation (AICS) of Amman, implemented by Perugia University (Department of Humanities), in cooperation with the Department of Antiquities of Jordan. The project, started on 19/05/2020, foresees several activities, as such as the rehabilitation to the public of five archaeological urban areas in the Madaba city-center and the realization of 21 training courses in archaeology, restoration, protection and management of Cultural Heritage.
- Since 2015 to date he co-direct the project MRAMP (Madaba Archaeological Museum Project), together with Douglas Clark (La Sierra University - California), Suzanne Richard (Gannon University - Pennsylvania) and Marta D’Andrea (Sapienza University of Rome). The project, coordinated by the Department of Antiquities of Jordan, is funded by: American Center of Oriental Research (ACOR) of Amman, SCHEP-USAID American Fund, the Italian Ministry of Foreign Affairs and International Cooperation. The project regards the enchantment of the Madaba Archaeological Park West where a new archaeological regional museum has to be planned and built. The new museum is designed to house collections of artifacts from the archaeological excavations of the region. The MRAMP is an American Schools of Oriental Research affiliated project.

Participation to archaeological excavations and research projects

- From 1998 to 2010 he was member of the Italian Archaeological Expedition to Tell Mardikh-Ebla (Syria), under the direction of Prof. P. Matthiae (Sapienza University of Rome). He worked in several areas of the site, investigating public contexts - as the Southern Palace (Area FF), the “Temple of the Rock” (Area HH), the Western Palace (Area Q), the Palace E, The AA Fortress and the South-Western Door (Area A) - and funerary contexts, as the shaft tomb P.8680 (Area FF).

- From 2004 to 2007 he was member of the Italian Archaeological Expedition to Palestine and Transjordan, under the direction of Prof. L. Nigro (Sapienza University of Rome). He was supervisor of Area B at Khirbet al-Batrawy (Jordan) for three season of excavations and he collaborated to the archaeological surveys along the Wadi az-Zarqa (Jordan).
- From 2004 to 2007 he participated to the project PADIS (Palestine Archaeological Databank and Information System) of Sapienza University of Rome, in cooperation with UNESCO and the Department of Antiquities of Palestine.
- From 2006 to 2008 he participated to the project ARCANE (Associated Regional Chronologies for the Ancient Near East and the Eastern Mediterranean) of Tuebingen University.
- Since 2013 to 2016 he direct the research unit of Perugia University in the framework of the Project FIRB "Time Through Colors: Analysis of Painted Artifacts in Their Archaeological, Historical and Sociological Contexts", funded by MIUR (FIRB program 2012). The project was coordinated by Sapienza University of Rome (Department of Antiquities), in cooperation with Cagliari University (Department of Physic) and the Ashmolean Museum of Oxford. The project was about analysis on painted clay objects stored at Ashmolean Museum, through Raman and micro-Raman Spectroscopy using a new portable instrument, developed during the project itself.
- Since 01/02/2021 to date he is responsible of the research unit of Perugia University (Department of Humanities), in the framework of the Project PRIN Co-fin 2017 "Fluid Crescent", coordinated by Davide Nadali of Sapienza University of Rome (Department of Antiquities). The three-years project, renewed by MIUR till 18/09/2023, regards the study of the role of water in the ancient Near Eastern societies; the role of the research unit of Perugia University is to study the role of water-systems in the food production activities.

Organization of exhibitions about Archaeology and Cultural Heritage

- In 2025 he organized the exhibition "Paesaggi d'Acqua: dalle prime città al mondo contemporaneo", in the framework of the Italian National Project Prin Co-Fin 2017 "Fluid Crescent. Water and Life in the Societies of the Ancient Near East". The exhibition, showing through 3D technologies the last discoveries in the site of Jebel al-Mutawwaq (Jordan) and Tell Zurghul, ancient Nigin (Iraq), was inaugurated on 15 febbraio 2024 at Palazzo Murena, Piazza dell'Università 1, Perugia, Italy.
- In 2021 he organized the exhibition "Madaba, the city of mosaics", presenting the results of the first year of work at Madaba, Jordan, in the framework of the Project "Discovering Madaba" funded by AICS and implemented by Perugia University. The exhibition was inaugurated at Bernabei Palace, Assisi (Italy), on 18/06/2021. The exhibition was settled as an immersive path, with the real 3D reconstruction of some interiors of the Madaba Byzantine Churches in the rooms of Bernabei Palace. This was possible through the use of new technologies as the 3D print for the reproduction of architectonical elements, objects and mosaics.
- In 2020 he organized the exhibition "*La vita all'origine dell'urbanizzazione. I risultati della missione archeologica a Jebel al-Mutawwaq, Giordania*", presenting the last results of the Italian-Spanish excavations at Jebel al-Mutawwaq, inaugurated at the Umbria Archaeological Museum of Perugia (MANU) on 09/10/2020.

- In 2019 he organized the exhibition “The Land of Jordan: An Italian Perspective”, in the framework of the “XIV International Congress on the History and Archaeology of Jordan” (Florence 21-25 January 2019), replicated with the title “Terra di Giordania” at MANU (Umbria Archaeological Museum of Perugia) on April 2019.
- In 2014 he organized the exhibition “*Ex Oriente. Scavi e ricerche dell'Università degli Studi di Perugia nel Vicino e Medio Oriente: Giordania, Kuwait e Iraq*”, inaugurated at Perugia University, Murena Palace, where some archaeological models and 3D replicas of artifacts coming from the Jebel al- Mutawwaq excavations have been set up.
- In 2012 he organized the exhibition “Jebel al-Mutawwaq e l'enigma dei dolmen: la Giordania agli inizi dell'Età del bronzo”, inaugurated at Perugia University, Manzoni Palace. In the exhibition were showed to the public several photographic panels with pictures of Jebel al-Mutawwaq (Jordan) and of the ongoing excavations of the first season.

National awards

- In 2005 he won the award of the Italian National Council of Researches (CNR) “*Progetto Promozionale Ricerca*” to support the publication of his MA thesis as a monograph in the scientific series CMAO (vol XI, 2006).
- In 2011 he result eligible to the national competition for a researcher fixed position at CNR, Scientific Area “Antiquity sciences and history of art” (*Raggruppamento Omogeneo II, codice di riferimento RM92/2*).
- In 2012 he won with Davide Nadali and Daniele Chiriu the FIRB 2012 grant of MIUR, with the three-years project started in 2013 entitled “Time Through Colors: Analysis of Painted Artifacts in Their Archaeological, Historical and Sociological Contexts”. The project, coordinated by Sapienza University of Rome (Department of Antiquities), includes Perugia University (Department of Humanities), Cagliari University (Department of Physic) and the Ashmolean Museum of Oxford.
- In 2017 he won the award “Annual price dedicated to young researchers for the best publication - Year 2016” of Perugia University with the publication “Dolmen 317 and its Hidden Burial”, published on the Bulletin of the American Schools of the Oriental Research (BASOR) no. 372 (2014).

Scientific congresses and conferences

He participated to several archaeological international congresses, with posters and papers:

- International Congress on Archaeology of Ancient Near East (ICAANE: Rome 18-23 March 1998, Copenhagen 21-25 May 2000, Paris 15-19 April 2002, Berlin 29 April 3 March 2004, Madrid 3-8 April 2006, Rome 5-10 May 2008, London 12-16 April 2010, Warsaw 30 April 4 May 2012, Basilea 9-13 June 2014, Vienna 25-29 April 2016, Munich 3-7 April 2018; Bologna 6-9 April 2021; Copenhagen 22-26 May 2023; Lyon 2-7 June 2025).
- Annual Meeting of the American Schools of Oriental Research (ASOR: San Diego 19-22 November 2014; Atlanta 18-21 November 2015; Boston 15-18 November 2017; Denver 14-17 November 2018; Virtual Meeting 12-22 November 2020).

- Rencontre Assyriologique Internationale (RAI: Barcellona 26-30 July 2010; Rome 4-7 July 2011; Turin 12-16 July 2021).
- International Congress on the History and Archaeology of Jordan (ICHAJ: Berlin 5-11 May 2013; Amman 22-27 May 2016; Florence 21-25 January 2019).
- Annual meeting of the European Association of Archaeologists (EAA: Maastricht 30 August - 3 September 2017; Barcellona 5-8 September 2018).
- Annual meeting of the Italian Society of Archaeoastronomy (SIA: Rome 28-29 September 2007, Ferrara 17-18 October 2008, Bologna 28-29 October 2011; Albano Laziale 4-5 October 2012; Rome 6-8 September 2017; Genova 22-24 October 2018; Bari 10-12 October 2019; Perugia 8-9 October 2021).
- Annual Meeting of the European Society for Astronomy in Culture (SEAC: Rodi 2008, Alessandria 2009; Ljubljana 2012; Roma 2015).

Invited conferences

- “Megalitismo, urbanizzazione e trasformazione del paesaggio: le alture della Transgiordania all'inizio dell'età del Bronzo”, Sapienza University of Rome, Seminars in the framework of the Italian National PRIN 2022 “The Price of Progress. A Multidisciplinary Research on Human-Environment Interactions in the Levant at the Dawn of Urbanism (3500-2000 BCE)”, Rome, Italy, 13 May 2025.
- “Prime città, necropoli megalitiche e trasformazione del paesaggio in Transgiordania fra la fine del IV e gli inizi del III millennio a.C.; il caso di Jebel al-Mutawwaq”, Pisa University, Seminars in the framework of the Italian National PRIN 2022 “The Price of Progress. A Multidisciplinary Research on Human-Environment Interactions in the Levant at the Dawn of Urbanism (3500-2000 BCE)”, Pisa, Italy, 7 April 2025.
- “Southern Levantine Stone Calendars: The Orientations of the Late Chalcolithic and Early Bronze Age Sacred Precincts in Transjordan”, Sapienza University of Rome, Seminars in the framework of the Italian National PRIN 2022 “Synchronized with Nature. Measuring Time in Ancient Egypt and Mesopotamia Archaeological and Textual Evidence”, Rome, Italy, 23 January 2025.
- “I primi esperimenti urbani in Transgiordania all'inizio dell'Età del Bronzo”, Sapienza University of Rome (Conferences of the “Museo del Vicino Oriente, Egitto e Mediterraneo”), Rome, Italy, 17 January 2025.
- “Back to Sumer. Recent results from the Italian Excavations at Tell Zurghul, ancient Nigin, in Southern Iraq” University of Pennsylvania, Museum of Archaeology and Anthropology, Philadelphia, 15-16 June 2018.
- “Astronomical Heritage of the Middle East”, Yerevan, Armenia, 13-17 November 2017.
- 8th International Conference on Science and Technology in Archaeology and Conservation, Amman, Jordan, 21-25 May 2017.
- International Dolmen Workshop, Copenhagen University, Copenhagen, Denmark, 29 March 2017.
- “Missioni Archeologiche Italiane in Giordania”, Paestum, *XIX Borsa Mediterranea del Turismo Archeologico*, 28 October 2016.
- “Sky and culture”, Paestum, *XIII Borsa Mediterranea del Turismo Archeologico*, 18-20 November 2010.

- International Workshop on the Tourism Development of the site of Jericho, in Palestine (International Training Workshop, UNESCO, Ariha, Palestine 7-11 February 2005).

Scientific committee participations

- International Congress on the History and Archaeology of Jordan, Firenze, 21-25 January 2019.
- 17th annual meeting of the Italian Society of Archaeoastronomy, Rome 6-8 September 2017.
- CPAVO: *Conferenza Programmatica degli Archeologi del Vicino Oriente Iraq e Siria. Il Patrimonio Archeologico tra Rischi e Prospettive*, Florence, Palagio dei Capitani di Parte Guelfa 16-17 December 2016.

Organization of workshops in international congresses

- On 24 May 2023 he organized, together with Prof. Susanne Kerner (University of Copenhagen) a workshop entitled “De-constructing a Megalithic Landscape: dolmens in the Levant between the Late Chalcolithic and the Early Bronze Age II: landscapes, rituals and socio-economics”, during the 12° International Congress on the Archaeology of the Ancient Near East, Copenhagen.
- On 28 April 2021 he organized, together with Davide Nadali (Sapienza University of Rome) a workshop entitled “Fluid Crescent: Water and Life in the societies of the Ancient Near East”, for the presentation of the PRIN Co-fin 2017 “Fluid Crescent” project results.
- In 2017 he organized, together with Michael Templer (University of Neuchâtel) the workshop “Transition in Prehistory”, during the 23° annual meeting of the European Association of Archaeologists, Maastricht.
- In 2017 he organized, together with Sara Pizzimenti (Sapienza University of Rome) and Vito Francesco Polcaro (National Institute of Astrophysics INAF) the workshop “Ex Oriente: Mithra and the others. Astronomical contents in the cults of Eastern origin in ancient Italy and Western Mediterranean”, during the 17° annual meeting of the SIA (Italian society of Archaeoastronomy), Rome.
- In 2016 he organized, together with Davide Nadali (Rome Sapienza University) and Holly Pittmann (Stanford University) the workshop “Ancient Lagash: a Workshop on Current Research and Future Trajectories”, during the 10° International Congress on the Archaeology of the Ancient Near East, Vienna.
- In 2015 he organized, together with Douglas Clark (La Sierra University), the “Madaba Museum Workshop”, during the annual meeting of the American Schools of Oriental Research at Atlanta, for the presentation of the results of the “Madaba Archaeological Museum Project” (MRAMP).

Memberships of scientific societies

He is member of several scientific societies as the ASOR (American Schools of Oriental Research), the EAA (European Association of Archaeologists), the IPP (Istituto di Preistoria e Protostoria), the SIA (Società Italiana di Archeoastronomia); the SEAC (Société Européenne pour l’Astronomie dans la Culture).

Publications

EDIT BOOKS

Polcaro, A., Muniz, J., Caselli, A. (eds.), *Jebel al-Mutawwaq. A 4th Millennium BCE Village and Dolmen Field. Five Years of Spanish-Italian Excavations (2012-2017)* (LEMA - Studies in the Archaeology and History of the Levant and Eastern Mediterranean 3), Brepols, Turnhout 2024.

Nadali, D., Polcaro, A. (eds.), *The Italian Archaeological Excavations at Tell Zurghul, ancient Nigin, Iraq. Final Report of the Seasons 2015-2017* (Quaderni di Vicino Oriente XVI), Sapienza Università di Roma, Roma 2020.

Nadali, D., Polcaro, A. (eds.), *Archeologia della Mesopotamia antica*, Carocci Editore, Roma 2015.

MONOGRAPHS

Polcaro, A., *Necropoli e costumi funerari in Palestina dal Bronzo Antico I al Bronzo Antico III (=Contributi e Materiali di Archeologia Orientale XI)*, Rome 2006.

ARTICLES ON JOURNALS

Polcaro, A., Muniz, J.R., Caselli, A., Preliminary Report of the Eighth Spanish-Italian Archaeological Expedition to Jabal Al Mutawwaq, Middle Wādī az Zarqā, September 2019, in *Annual of the Department of Antiquities of Jordan* 61, 2023: 303-315.

Polcaro, A., Caselli, A., *Jebel al-Mutawwaq: a proto-urban settlement in the wadi az-Zarqa valley, Jordan*, in *Bulletin du Musée D'Anthropologie Préhistorique de Monaco* 62, 2023: 17-28.

A. Polcaro, J.R. Muniz, Preliminary Report on the Seventh Season (2018) of Spanish-Italian Excavations at Jabal al-Mutawwaq, Wadi Az-Zarqa, Jordan, *Annual of the Department of Antiquities of Jordan* 60, 2022: 301-309.

K. Schath, E. Casadei, A. Polcaro, The Dolmen Culture Project: an Introduction to the Al-Juffayn Megalithic Field and Discrete Field #1, *Annual of the Department of Antiquities of Jordan* 60, 2022: 559-565.

D. Nadali, A. Polcaro, Preliminary Report on the Third Season of Excavations at Tell Zurghul, ancient Nigin, Iraq, *Sumer* 66, 2020: 109-131.

Suzanne R., D'Andrea M., Polcaro A., Clark D., An Innovative Strategy to Protect Cultural Heritage in Jordan, The Madaba Regional Archaeological Museum Project (MRAMP). *Journal of Eastern Mediterranean Archaeology and Heritage Studies*, vol. 7, 2019: 223-253.

Polcaro, A., *Jebel al-Mutawwaq, la montagna dei dolmen*, *Archeologia Viva* n.193, 2019: 11-21.

Nadali, D., Polcaro, A., *Archaeological Discoveries in the Ancient State of Lagash: Results from the Italian Excavations at Tell Zurghul/Nigin in Southern Iraq*, in *Ash-Sharq* Vol. 2 No. 1, 2018: 24-124.

Casado, A.M., Muniz, J.R., Polcaro, A., Alvarez Martinez, V., Casadei, E., del Rio, J.G., Perri, G., Gonzalez, S.R., Piedra, G.S., Zambruno, P., Corrada Solares, M., *Qareisan Spring: Jebel Mutawwaq dolmen field and Bronze Age site. Trabajos de excavación arqueológica en Jebel Mutawwaq, Jordania. Campaña de 2015*, in *Informes y Trabajo. Instituto de el Patrimonio Cultural de España* 14, 2016: 276-289.

Polcaro, A., *The Middle Bronze Age Cemetery of Eblaite Royal Artisans: a Re-analysis of Area G South of Tell Mardikh*, in *Les Annales Archéologiques Arabes Syriennes*, Vol. 57-58, 2014-2015: 205-215.

Muñiz, J., Polcaro, A., Álvarez V., Preliminary Results of the 2013 Excavation Season at the EB I Site of Jabal al-Mutawwaq in Middle Wadi az-Zarqa, in *Annual of the Department of Antiquities of Jordan* 58, 2017: 423-434.

Muñiz Álvarez, J.R., Polcaro, A., Jabal al-Mutawwaq Project (Zarqa, Jordan) September 2014, in *Annual of the Department of Antiquities of Jordan* 58, 2017: 435-444.

Chiriu, D., Ricci, C., Carbonaro, C. M., Nadali, D., Polcaro, A., Collins, P., Raman identification of cuneiform tablet pigments: emphasis and colour technology in ancient Mesopotamian mid-third millennium, in *Heliyon* 3, 2017: 1-17.

Nadali, D., Polcaro, A., Nigin, alle origini della civiltà, in *Archeologia Viva*, vol. 183, 2017: 40-49.

Nadali, D., Polcaro, A., The Early Stages of the Sumerian City at Tell Zurghul: New Results from Recent Excavations, in *Origini* 39, 2016: 75-100.

Nadali, D., Polcaro, A., The Sky from the High Terrace: Study on the Orientation of the Ziqqurat in Ancient Mesopotamia, in *Mediterranean Archaeology and Archaeometry* 16/4, 2016: 103-108.

César González García, A., Belmonte, J.A., Polcaro, A., A Diachronic Analysis of Orientation of Sacred Precincts Across Jordan, in *Mediterranean Archaeology and Archaeometry* 16/4, 2016: 133-141.

Belmonte, J.A., González García, A.C., Polcaro, A., Rodríguez-Antón, A., Schaltout, M., Orientatio ad Sidera (OAS): Highlights of a Decade of Archaeoastronomical Research in the Mediterranean Region and Beyond, in *Mediterranean Archaeology and Archaeometry*, 16/4, 2016: 93-101.

Muniz, J., Polcaro, A., Jebel al-Mutawwaq, in *Arqueología Bíblica* 91, 2016: 39-47.

Nadali, D., Polcaro, A., Verderame, L., New Inscriptions of Gudea from Tell Surghul / Nigin, Iraq, in *Zeitschrift für Assyriologie* 106 (1), 2016: 16-21.

Chiriu, D., Ricci, P.C., Carbonaro, C.M., Nadali, D., Polcaro, A., Mocci, F., Drying oil detected in mid-third Millennium B.C. Mesopotamian clay artifacts: Raman spectroscopy and DFT simulations study, in *Microchemical Journal* 124, 2015: 386-395.

Nadali, D., Polcaro, A., Il Rinascimento sumerico. Nuove scoperte archeologiche in Iraq Meridionale, in *Forma Urbis*, vol. XX, 2015: 18-26.

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Polcaro, A., The Bone Talisman and the Ideology of Ancestors in Old Syrian Ebla: tradition and innovation in the royal funerary ritual iconography, in *Studia Eblaitica* 1, 2015: 179-204.

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Polcaro, A., Muniz, J., Alvarez, V., Mogliazza, S., Dolmen 317 and Its Hidden Burial: An Early Bronze Age I Megalithic Tomb from Jebel al-Mutawwaq (Jordan), in *Bullettin of American Schools of Oriental Research* 372, 2014: 1-17.

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Alvarez, V., Muniz, J., Polcaro, A., Preliminary results of the first Spanish-Italian excavation campaign to the Jabal al-Mutawwaq dolmen field, August-September 2012, in *Annual of the Department of Antiquities of Jordan* 57, 2013: 409-424.

Muñiz Álvarez, J.R., Álvarez Martínez, V., Polcaro, A., Jebel al-Mutawwaq. La evolución del estudio de un yacimiento de la edad del bronce Antiguo I en la estepa jordana, in *ISIMU (Revista sobre Oriente Próximo y Egipto en la antigüedad)* 16, 2013: 79-95.

Belmonte, J. A., Gonzalez-Garcia, A. C., Polcaro, A., Light and Shadows over Petra: astronomy and landscape in Nabataean lands, in *Nexus Network Journal* 15, 2013: 487-501.

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Polcaro, A., Polcaro, V.F., Man and Sky: Problems and Methods of Archaeoastronomy, *Archeologia e Calcolatori*, vol. 20, 2009: 223-245.

Nigro, L., Sala, M., Polcaro, A., Preliminary Report of the Third Season of Excavations by the University of Rome "La Sapienza" at Khirbat al-Batrawi (Upper Wadi az-Zarqa), in *Annual of the Department of Antiquities of Jordan* 52, 2008: 209-230.

Polcaro, A., Polcaro V.F., Early Bronze Age Dolmens in Jordan and their Orientations, *Mediterranean Archaeology and Archaeometry*, Vol. 6, No. 2, 2006: 165-171.

Polcaro, A., Architettura Funeraria della necropoli di Bab edh-Dhra' dal BA I al BA III. Funzione e significato dei cambiamenti architettonici delle tombe nell'ambito dello sviluppo urbano dell'inse-
diamento, *Contributi e Materiali di Archeologia Orientale* X, Rome 2005: 209-267.

CHAPTERS IN BOOK

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Il sottoscritto ANDREA POLCARO, consapevole della responsabilità penale prevista, dall'art. 76 del D.P.R. 445/2000, per le ipotesi di falsità in atti e dichiarazioni mendaci ivi indicate dichiara che ogni dichiarazione riportata corrisponde a verità.

Autorizzo al trattamento dei dati personali ai sensi del D. Lgs. n° 196/2003 (vedi Privacy) e successive interrogazioni e modifiche.

Perugia, 08/07/2025