

CURRICULUM VITAE

Alessandro Montanari

Director of the Geological Observatory of Coldigioco (OGC)

Born: Ancona, Italy, on July 25, 1954

Married to Paula Metallo (Dec. 24, 1976), Artist, Co-director of the Geological Observatory of Coldigioco
Father of Fiorenza, Artistic Director of Teatro Mestica in Apiro,
and Maxwell, Restaurant Chef in Apiro.

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Education

Scientific High School Degree 1973 - Liceo Scientifico Luigi di Savoia, Ancona, Italy.

Under-officer Cadet and Instructor - 1973-1974 (16 months), ACS Military School, Spoleto, Italy.

Auditing Student, 1976-1977 (8 months), State University of New York, New Paltz, U.S.A.

Laurea Diploma in Geology 1979 (Master) - Università degli Studi di Urbino, Italy.

Ph.D. in Geology 1986 - University of California, Berkeley, U.S.A.

Ph.D. thesis advisors: Walter Alvarez, Richard Hay, Charlotte Brunner.

Post-doc studies at U.C. Berkeley until 1992: Walter Alvarez, Richard Muller advisors/sponsors.

Scientific fields of interest

Pelagic basin analysis, integrated and event stratigraphy, Milankovitch cyclostratigraphy, time scale calibration, climate change, extraterrestrial impacts, neotectonics, geoarchaeology, speleogeology.

Innovations in teaching and training

With the booklets “Dances with the Earth”, and “Drops of Time”, Alessandro Montanari has invented and developed “Geophonic Music” to teach Earth history to the public in an innovative, pleasant, and effective way. Starting as a sedimentologist in his basin analysis of the Apennine pelagic succession, Alessandro Montanari has pioneered new research approaches to the study of Earth history using interdisciplinary tools (petrography, geochemistry, micropaleontology, radioisotopic geochronology, stable isotopes analysis, cyclostratigraphic analysis, etc.), from high-resolution Event Stratigraphy, to Integrated Stratigraphy, to Cyclostratigraphy and Astrochronologic Tuning of the geologic time scale. In 1992, Alessandro Montanari has founded, and directed since, the Geological Observatory of Coldigioco (with Walter Alvarez and David Bice as co-founders), and developed pedagogical methods to teach the reading of Earth history in sedimentary successions to student classes from various American and European academic institutions, combining at once the research process from field work, sample processing, laboratory, and computational analysis. Co-founder of the International Big History Association (IBHA) in 2010, Alessandro Montanari has since integrated Earth sciences studies and teaching following methods and pedagogic philosophy of the Big History academic movement.

Awards and Honors

1986 George D. Lauderback Award, from U.C. Berkeley.

1992 “Hanno Onorato Gubbio” Award, from the Rotary District 2090, Gubbio.

1994 Knighted as Officer of Merit by the President of the Italian Republic On. Oscar Luigi Scalfaro.

2001 Premio Portonovo, from the City of Ancona and the Marche Region.

2005 Renaissance Geology Fellowship, from U.C. Berkeley.

2007 Jean Baptiste Lamarck Medal, from the European Geosciences Union.

2010 Austrian Academy of Science, elected Corresponding Member.

2010 Fellow of the Geological Society of America.

2010 Marie Curie Fellowship from the European Commission Excellent Science Agency.

Languages

Italian, mother tongue; English, acquired second language; French, fair in reading, understanding, but somewhat rusty in speaking and writing; Croatian, useable in speaking and understanding; German, high school level.

Public duty

City Council of the town of Apiro, 2004-2009.

City Council of the town of Poggio San Vicino, 2009-2014.

Societies and Associations

Società Geologica Italiana;

Geological Society of America;

Non-profit Association “Le Montagne di San Francesco”.

Non-profit Association “Settimana del Pianeta Terra”.

Teaching Experience and Seminars

1981-1985 Teaching Assistant, U.C. Berkeley.

1984 Plate Tectonics, University of Perugia.

1988 Sedimentary Geology and Petrography, Stanford University.

1990 Geology of California, U.C. Berkeley.

1993 Integrated Stratigraphy and Regional Geology, University of Camerino,

1993-2007 Off Campus Geology of Italy Program at OGC, Carleton College.

1995 Impacts and Evolution, Erasmus Program at OGC.

1995 Keck field geology program at OGC.

1996 Field Course at OGC, Ecole des Mines de Paris.

1998 K-T Boundary course at OGC, The Planetary Society, Pasadena.

1988 Integrated Stratigraphy for Italian university graduate students at OGC.

2000 Seminars and excursions through the Apennines, ESF Conference, Vienna.

2000 Seminars and excursions at OGC, Open University Geological Society.

2001 Seminars and excursions, Meteoritic Society Annual Conference, Rome.

2003 Field Course at OGC, Ecole des Mines de Paris.

2003 Field Course at OGC, Colorado School of Mines, Golden

2004 Lecturer at the University of Delaware, Newark.

2004 Field Course at OGC for Alumni from the Carleton College.

2004 Field Course at OGC, Chicago University.

2004-2007 Field Course at OGC, University of Chieti.

2006-2008 Off Campus Geology Course at OGC, University of Vermont.

2006-2016 Off Campus Geology Course at OGC, Pennsylvania State University.

2008 Integrated Stratigraphy, University of Chieti.

2009 Field course at OGC for Lehigh University.

2009 Impact Stratigraphy course at OGC, University of Vienna.

2009 Impact Stratigraphy course at OGC, Network for Impact Research (NIR).

2010 Speleobiology course at OGC, University of Göttingen.

2010 Off Campus Apennines geology course, Harvard University.

2010 Geology Teaching course for teachers of the Association of Colleges of the Midwest (ACM).

2010 Geology Teaching course for teachers of the International Big History Association.

2011 Apennine Field Geology Course, Lawrence University.

2011 Cyclostratigraphy course at OGC, University of Florence.

2012-2019 ACM Environmental Science Studies in Italy, 12 weeks undergraduate course at OGC.

2013-2023 Apennine Field Geology Course for the Columbia University, USA.

2014-2024 Apennine Field Geology Course for Appalachian State University, USA.

2023 International cyclostratigraphy course at OGC for CycloNet, Brussels University.

2024 Apennine Field Geology Course for Amherst College, USA.

Field supervisor for ~40 senior, master, and PhD student theses (1994-2025) from:

Ecole des Mines (Paris, France); Carleton College (USA); University of Vienna (Austria); Washington & Lee University (USA), Pennsylvania State University (USA), Lehigh University (USA), North Carolina State University (USA); University of Camerino; University of Chieti; University of L'Aquila.

Working Groups, Workshops, and Scientific Commissions

1990-1999 IUGS, Commission on Stratigraphy. Subcommission on Geochronology, Time Scale and Reliability of Geochronometers.
1992-1995 European Science Foundation, Impact Cratering and Evolution of Planet Earth.
1994-1998 Cape Roberts Drilling Project (C.A.T.C.H. - Antarctica), Italian participation.
1995-1999 IUGS, Commission on Stratigraphy, Subcommission on Neogene Stratigraphy.
1997-2016 IUGS, Subcommission on Paleogene Stratigraphy for the Rupelian-Chattian GSSP.
2002-2009 IUGS, Subcommission on Neogene Stratigraphy for the Serravallian-Tortonian GSSP.
2005-2008 RETREAT program (NSF supported), research collaborator and conference organizer.
2004-2019 Scientific Commission of the Grotte di Frasassi Consortium (Ancona).
2020-2024 Corresponding member IUGS Subcommission on Neogene Stratigraphy

Scientific Editor

1988 Memoir of the Eocene-Oligocene Boundary Ad Hoc Meeting: The Eocene-Oligocene Boundary in the Marche-Umbria Basin, IUGS Special Publication, I. Premoli Silva, R. Coccioni, and A. Montanari (Editors), F.lli Aniballi Publishers, Ancona, 268 pages.
1992 Abstract and Field Trips volume of the IUGS-SOG international conference on the Miocene Epoch entitled "Miocene Columbus Project, co-edited with Rodolfo Coccioni (Urbino) and Gilles Serge Odin (Paris); 115 pages.
1992-1995 Editor of the Newsletter of the European Science Foundation, Scientific Network on Impact Cratering and Evolution of Planet Earth, co-edited with Jan Smit (Amsterdam).
1995 Abstract and Field Trips volume of the European Science Foundation, 4th International Workshop on "The effects of impacts in the evolution of the atmosphere and biosphere with regard to short- and long-term changes", co-edited with Rodolfo Coccioni (Urbino); 205 pages.
1995 Special issue of the Giornale di Geologia, v. 56, n° 1, "Miocene stratigraphy of Italy and adjacent regions, co-edited with Rodolfo Coccioni (Urbino), and Gilles Serge Odin (Paris), 212 pages.
1997 Miocene Stratigraphy: An Integrated Approach: Development in Palaeontology and Stratigraphy, n° 15, co-edited by Gilles Serge Odin and Rodolfo Coccioni, Elsevier Science B.V., Amsterdam, 694 pages.
2009 GSA Special Paper 452 "Hothouse, Icehouse, and Impacts: The Late Eocene Earth" from the Penrose Conference of Ancona, October 2008, co-edited with Christian Koeberl, 322 pages.
2016 GSA Special Paper 524 "The Stratigraphic Record of Gubbio: Integrated Stratigraphy of the Late Cretaceous-Paleogene Umbria-Marche Basin, co-edited with Marco Menichetti and Rodolfo Coccioni.
2017 Abstract and Field Trips volume of the Geological Society of America Penrose Conference titled "250 Million Years of Earth History in Central Italy: Celebrating 25 Years of the Geological Observatory of Coldigioco", A. Montanari and C. Koeberl, conveners; Apri September 25-30, 2018, 117 pages.
2022 GSA Special Paper 557 "From the Guajira Desert to the Apennines, and from Mediterranean Microplates to the Mexican Killer Asteroid: Honoring the Career of Walter Alvarez" Co-edited with Koeberl, C., and Claeys, P., 600 pages.

Books

1995 "Le Rocce del Cònero Raccontano" (Tales from the Cònero rocks) - A geologic guide for the Cònero Park. Co-authored with Paolo Sandroni. Aniballi Grafiche S.r.l. Ancona, 63 pages.
1997 Contributor in the book entitled "Formazione come Pratica Cooperativa", edited by Rinaldo Rizzo, with a chapter entitled "L'Osservatorio Geologico di Coldigioco: Chi, come, quando e perchè"; Coop-Edit.MCE, Ronchi dei Legionari (GO), Italy, 156 pages.

- 2000 Impact Stratigraphy: The Italian Record. Co-authored by Christian Koeberl, Lecture Notes in Earth Sciences, Springer, 364 pages
- 2001 “Balla con la Terra: musica geofonica dalla stratigrafia dell’Appennino Umbro Marchigiano”, co-authored with Gabriele Rossetti, published by the Osservatorio Geologico di Coldigioco, 57 pages.
- 2002 “Gocce di Tempo: passeggiando fra sassi”, and English edition “Drops of Time: strolling among rocks”, field guide for the Frasassi Park, with CD audio of Quaternary geophonic music, co-authored with Sandro Galdenzi and Gabriele Rossetti, published by the Osservatorio Geologico di Coldigioco, 95 pages.
- 2004 “Dances with the Earth” (English edition): geophonic music from the stratigraphic record of Central Italy, book with CD co-authored with Gabriele Rossetti, Presses de l’Ecole des Mines de Paris, 87 pages.
- 2009 “Stigobionti: vita acquatica nelle grotte di Frasassi. Federazione Speleologica Marchigiana, F.Ili Anibaldi Publishers, Ancona, 98 pages.
- 2022 “Frasassi: La Piccola Grande Storia delle Grotte” – Pedagogia, Terra, Vita, Umanità. Co-authored with Gaia Pignocchi. Free-access e-Book edited by Federazione Speleologica Marchigiana, Ancona, Italy www.speleomarche.it, 291 pages, 211 figures, 20 videos.
- 2025 “Frasassi: The Little Big History of the Caves” – Pedagogy, Earth, Life, Humanity. Co-authored with Gaia Pignocchi. Free-access e-Book edited by Federazione Speleologica Marchigiana, Ancona, Italy www.speleomarche.it, 291 pages, 211 figures, 20 videos.

Scientific publications

- 160 **Montanari, A.**, Donders, T., Fiebig, M., Giuli, G., Lüthgens, C., Mainiero, M., Nazzareni, S., and Pignocchi, G., 2025, Environmental analysis of Middle Pleistocene-to-Holocene aeolian sediments filling up a karstic depression at Monte Cònero (Le Marche region of central Italy): Italian Journal of Geosciences, *submitted*.
- 159 Sandroni, P., Church, N.S., Coccioni, R., Frontalini, F., Mainiero, M., and **Montanari, A.**, 2025, Reptile footprints on a pelagic seafloor as a vestige of a synsedimentary seismic event in the lower Campanian Scaglia Rossa basin of the Umbria-Marche Apennines (Italy): Cretaceous Research, p. 1-18. <https://doi.org/10.1016/j.cretres.2025.106268>
- 158 Pignocchi, G. and **Montanari, A.**, 2025, Nuove considerazioni sull’area delle incisioni rupestri del Monte Conero. In Anna Maria Tosatti, Francesco Marco Paolo Carrera, Renata Grifoni Cremonesi, Dario Sigari (Eds.), Nuove scoperte e progressi nelle metodologie di rilievo e analisi dell’arte rupestre post-paleolitica in Italia (New discoveries and progress in the tracing and analysis methodologies of the post-Paleolithic rock art in Italy), Atti del XII Incontri Annuali di Preistoria e Protostoria, Museo Civico Archeologico di Camaiore (LU) 19-20 maggio 2023, Archaeopress Oxford, p. 357-370.
- 157 Pignocchi, G., Fiorentini, M., and **Montanari, A.**, 2024, La matrice in marna della Grotta dei Baffoni (Genga-AN) tra tecnologia e mito: in NEGRONI CATAACCHIO N. a cura di, Archeologia del fuoco. La vita, la morte, i culti: una presenza costante, Preistoria e Protostoria in Etruria, Ricerche e scavi, Atti del XVI Incontro di Studi Valentano (VT) - Saturnia (GR), 9-11 settembre 2022, pp. 379-394.
- 156 **Montanari, A.**, Pignocchi, G., Mainiero, G., and Mainiero, M., 2024, The pink rocks of Carlo Crivelli (1489): Earth Sciences History, v. 43, No. 2, p. 303–326.
- 155 Roverato, M., Farina, F., Lupi, M., Ovtcharova, M., **Montanari, A.**, Bonini, M., and Montanari, D., 2024, Upper Miocene volcanic ash layers from central Italy: tracking down the volcanic source: Bulletin of Volcanology, p. 86-102. <https://doi.org/10.1007/s00445-024-01774-0>
- 154 Sinnesael, M., Percival M.E.L., Schulz, T., Vellekoop, J., Goderis, S., Daems, K., Yue Gao, Y., Leermakers, M., **Montanari, A.**, Coccioni, R., Koeberl, C., and Claeys, P., 2024, Deep marine records of Deccan Trap volcanism before the Cretaceous-Paleogene (K-Pg) mass extinction: Geological Society of America Bulletin, p. 1-17, <https://doi.org/10.1130/B37446.1>.
- 153 **Montanari, A.**, Mainiero, G., and Mainiero, M., 2024, When stones tell about humans: A presumed anthropomorphic sandstone sculpture found in the Marche Apennines of Central Italy: Italian Journal of Geosciences, v. 143 (2), p. 1-13, <https://doi.org/10.3301/IJG.2024.08>.
- 152 **Montanari, A.**, Koeberl, C., Schulz, T., Smith, V.C., Molnár, M., and Tóth-Hubay, K., 2024, An air-fall ash layer in the Grotta dei Baffoni cave in the Frasassi Gorge (Marche Apennine, Italy): Relevance to the Younger Dryas debate: Journal of Volcanology and Geothermal Research, v. 450, p. 1-10. <https://doi.org/10.1016/j.jvolgeores.2024.108067>

- 151 **Montanari, A.**, and Pignocchi, G., 2023, A new section of Upper Pleistocene alluvial-colluvial deposits in the foothills of the Marche Ridge (Apennine Mountains of central Italy): *Italian Journal of Geosciences*, v. 142 (3), p. 1-17, <https://doi.org/10.3301/IJG.2023.21>.
- 150 **Montanari, A.**, Farley, K., Coccioni, R., Sabatino, N., Bice, D., Yesko, M., Sinnesael, M., and de Winter, N., 2023, Cosmogenic ³He anomaly K1 vs. the early Campanian isotopic event (ECE) as recorded in pelagic limestones of the Umbria-Marche succession (Italy): *Geological Society of America Bulletin*, v. 136, p. 1753-1767, <https://doi.org/10.1130/B36952.1>.
- 149 Bharti, D., Kumar, S., Buonanno, F., Ortenzi, C., **Montanari, A.**, Quintela-Alonso, P., and La Terza, A., 2022, Free living ciliated protists from the chemoautotrophic cave ecosystem of Frasassi (Italy): *Subterranean Biology*, v. 44, p. 167-198.
- 148 **Montanari, A.**, Ferretti, M.P., Mainiero, M., McGee, D., Pignocchi, G., Recanatini, S., and Zorzin, R., 2022, Revisiting the archaeological site of Grotta dei Baffoni Cave (Frasassi Gorge, Italy): Integrated stratigraphy, archaeometry, and geochronology of upper Pleistocene–Holocene cave sediments, in Koeberl, C., Claeys, P., and Montanari, A., eds., *From the Guajira Desert to the Apennines, and from Mediterranean Microplates to the Mexican Killer Asteroid: Honoring the Career of Walter Alvarez*: Geological Society of America Special Paper 557, p. 583-600.
- 147 **Montanari, A.**, Mainiero, M., Farabollini, P., and Pignocchi, G., 2022, Sedimentological and archaeological evidence for a Late Antique Little Ice Age climate event (536–660 CE) as recorded in a fluvial strath terrace of the Esino River (Marche region, Italy), in Koeberl, C., Claeys, P., and Montanari, A., eds., *From the Guajira Desert to the Apennines, and from Mediterranean Microplates to the Mexican Killer Asteroid: Honoring the Career of Walter Alvarez*: Geological Society of America Special Paper 557, p. 571-582.
- 146 Coccioni, R., **Montanari, A.**, Boschi, S., Catanzariti, R., Frontalini, F., Jovane, L., Kochhann, M.V.L., Pelosi, N., Sabatino, N., Savian, J.F., and Sprovieri, M., 2022, Integrated stratigraphy of the Lutetian Priabonian pelagic section at Bottaccione (Gubbio, central Italy): A proposal for defining and positioning the Global Stratotype Section and Point (GSSP) for the base of the Bartonian Stage (Paleogene System, Eocene Series), in Koeberl, C., Claeys, P., and Montanari, A., eds., *From the Guajira Desert to the Apennines, and from Mediterranean Microplates to the Mexican Killer Asteroid: Honoring the Career of Walter Alvarez*: Geological Society of America Special Paper 557, p. 311-346.
- 145 Sarbu, M.S., Brad, T., Chauveau, C., Flot, J.-F., Galassi, D.M.P., Galdenzi, S., Gentile, G., Iepure, S., Jones, D.S., Martin, P., **Montanari, A.**, and Stoch, F., 2021, Sulfidic habitats in the Frasassi caves, Italy: A Hotspot of Subterranean Biodiversity: *Environmental Sciences Proceedings*, v. 3, 6 pp.
- 144 Pignocchi, G., Cabibbo, M., Fiorentini, M., and **Montanari, A.**, 2021, La matrice in terracotta e il pugnale in bronzo della Grotta dei Baffoni (Genga-AN): riproduzione e interpretazione: *Ipotesi di Preistoria*, v. 14, p. 14-44.
- 143 Anastasio, D.J., Pazzaglia, F.J., Parés, J.M., Kodama, K.P., Berti, C., Fisher, J.A., **Montanari, A.**, and Karnes, L.K., 2021, Application of anisotropy of magnetic susceptibility (AMS) fabrics to determine the kinematics of active tectonics: examples from the Betic Cordillera, Spain, and the Northern Apennines, Italy: *Solid Earth*, v. 12, p. 1125-1142.
- 142 Kasbohm, J., Shoene, B., **Montanari, A.**, and Coccioni, R., 2021, High-precision U–Pb zircon geochronology of the Miocene Bisciaro Formation, Contessa Section, Italy: A case study for requisite radioisotopic calibration of bio- and magnetostratigraphy: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 576, 110487.
- 141 **Montanari, A.**, Cerveau, N., Fiasca, B., Flot, J.-F., Galassi, D., Mainiero, M., McGee, D., Tadeusz, N., Recanatini, S., and Stoch, F., 2021, Stygobitic crustaceans in an anchialine cave with an archeological heritage at Vodeni Rat (Island of Sveti Klement, Hvar, Croatia): *International Journal of Speleology*, v. 50, p. 1-14.
- 140 **Montanari, A.**, Adamek, A., Curatolo, A., Ferretti, M.P., Mainiero, M., Mariani, S., McGee, D., Pignocchi, G., and Recanatini, S., 2020, An Epigravettian hypogeal site in the Grotta del Fiume Cave at Frasassi (northeastern Apennines, Italy): Environmental and geochronologic assessments: *International Journal of Speleology*, v. 49(2), p. 87-105.
- 139 Miše, M., Quinn, P., Charlton, M., Serneels, V., and **Montanari, A.**, 2020, Production and circulation of Late Hellenistic fine table ware in Central Dalmatia, Croatia: *Journal of Archaeological Science: Reports*, v. 33, 102537.

- 138 Sinnesael, M., **Montanari, A.**, et 29 alii, 2019, The cyclostratigraphy intercomparison project (CIP): consistency, merits, and pitfalls: *Earth-Science Reviews*, v. 199, p. 1-16.
- 137 **Montanari, A.**, and Coccioni, R., 2019, The serendipitous discovery of an extraterrestrial iridium anomaly at the Cretaceous-Palaeogene boundary in Gubbio and the rise of a far-reaching theory: *Bollettino della Società Paleontologica Italiana*, v. 58, p. 77-83.
- 136 **Montanari, A.**, Bice, D.M., Jull, A.J.T., Kudryavtsev, A.B., Macalady, J.L., Schaperdoth, I., Sharp, W.D., Shimabukuro, D., Schopf, W.J., and Vucetić, V., 2019, Pelagosome revisited: The origin and significance of a laminated aragonitic encrustation of Mediterranean supralittoral rocks, in Koeberl, C., and Bice, D.M., eds., 250 Million Years of Earth History in Central Italy: Celebrating 25 Years of the Geological Observatory of Coldigioco: Geological Society of America Special Paper 542, p. 501–532.
- 135 Miše, M., Serneels, V., Matana, A., **Montanari, A.**, and Kirigin, B., 2019, Provenance studies of amphorae from the Greek colony Pharos on the island of Hvar, Croatia, in Koeberl, C., and Bice, D.M., eds., 250 Million Years of Earth History in Central Italy: Celebrating 25 Years of the Geological Observatory of Coldigioco: Geological Society of America Special Paper 542, p. 471–499.
- 134 Wacha, L., **Montanari, A.**, Lomax, J., Fiebig, M., Lüthgens, C., Korb, T., and Koeberl, C., 2019, Last Glacial Maximum giant sand dunes on the island of Vis, Croatia, in Koeberl, C., and Bice, D.M., eds., 250 Million Years of Earth History in Central Italy: Celebrating 25 Years of the Geological Observatory of Coldigioco: Geological Society of America Special Paper 542, p. 459–470.
- 133 Bice, D., Lacroce, M., McGee, D., and **Montanari, A.**, 2019, Late Pleistocene tectonic tilting of the Frasassi anticline from offset stalagmites in the Grotta Grande del Vento (Marche, Italy), in Koeberl, C., and Bice, D.M., eds., 250 Million Years of Earth History in Central Italy: Celebrating 25 Years of the Geological Observatory of Coldigioco: Geological Society of America Special Paper 542, p. 447–457.
- 132 Kudielka, G., Bar-Matthews, M., Gilmour, M., Ayalon, A., Koeberl, C., and **Montanari, A.**, 2019, Implications for central Italy paleoclimate from 95,000 yr B.P. until the early Holocene as evident from Frasassi Cave speleothems, in Koeberl, C., and Bice, D.M., eds., 250 Million Years of Earth History in Central Italy: Celebrating 25 Years of the Geological Observatory of Coldigioco: Geological Society of America Special Paper 542, p. 429–445.
- 131 **Montanari, A.**, Lüthgens, C., Lomax, J., Mainiero, M., Mariani, S., and Fiebig, M., 2019, Luminescence geochronology of Pleistocene slack-water deposits in the Frasassi hypogenic cave system, Italy, in Koeberl, C., and Bice, D.M., eds., 250 Million Years of Earth History in Central Italy: Celebrating 25 Years of the Geological Observatory of Coldigioco: Geological Society of America Special Paper 542, p. 411–428.
- 130 Bice, D., Csank, A., Macalady, A., **Montanari, A.**, Tierney, D., and Baldanza, A., 2019, Paleoclimate implications of earliest Pleistocene tree rings from the Dunarobba Fossil Forest, Umbria, Italy, in Koeberl, C., and Bice, D.M., eds., 250 Million Years of Earth History in Central Italy: Celebrating 25 Years of the Geological Observatory of Coldigioco: Geological Society of America Special Paper 542, p. 393–409.
- 129 Boschi, S., Schmitz, B., and **Montanari, A.**, 2019, Distribution of chrome-spinel grains across the ^3He anomaly of the Tortonian Stage at the Monte dei Corvi section, Italy, in Koeberl, C., and Bice, D.M., eds., 250 Million Years of Earth History in Central Italy: Celebrating 25 Years of the Geological Observatory of Coldigioco: Geological Society of America Special Paper 542, p. 383–391.
- 128 Boschi, B., Schmitz, B., Terfelt, F., Ros, L., Elfman, M., Kristiansson, P., Sulas, C., Monechi, S., and **Montanari, A.**, 2019, Popigai impact ejecta layer and extraterrestrial spinels recovered in a new Italian location—The Monte Vaccaro section (Marche Apennines, Italy), in Koeberl, C., and Bice, D.M., eds., 250 Million Years of Earth History in Central Italy: Celebrating 25 Years of the Geological Observatory of Coldigioco: Geological Society of America Special Paper 542.
- 127 Koeberl, C., **Montanari, A.**, Schulz, T., Tusch, J., Mougé, B., and Moynier, F., 2019, Late Eocene impact ejecta in Italy: Attempts to constrain the impactor composition from isotopic analyses of spinel-rich samples, in Koeberl, C., and Bice, D.M., eds., 250 Million Years of Earth History in Central Italy: Celebrating 25 Years of the Geological Observatory of Coldigioco: Geological Society of America Special Paper 542, p. 347–354.
- 126 Martin, E., Schmitz, B., and **Montanari, A.**, 2019, A record of the micrometeorite flux during an enigmatic extraterrestrial ^3He anomaly in the Turonian (Late Cretaceous), in Koeberl, C., and Bice, D.M., eds., 250 Million Years of Earth History in Central Italy: Celebrating 25 Years of the Geological Observatory of Coldigioco: Geological Society of America Special Paper 542, p. 337–347.

- D.M., eds., 250 Million Years of Earth History in Central Italy: Celebrating 25 Years of the Geological Observatory of Coldigioco: Geological Society of America Special Paper 542, p. 303–318.
- 125 Tognaccini, S., Tavarnelli, E., and **Montanari, A.**, 2019, Synsedimentary deformation in Upper Cretaceous–Lower Paleogene limestones within a thrust anticline of the Umbria-Marche Apennines, Italy, in Koeberl, C., and Bice, D.M., eds., 250 Million Years of Earth History in Central Italy: Celebrating 25 Years of the Geological Observatory of Coldigioco: Geological Society of America Special Paper 542, p. 213–228.
 - 124 Sinnesael, M., **Montanari, A.**, Frontalini, F., Coccioni, R., Gattacceca, J., Snoeck, C., Wegner, W., Koeberl, C., Morgan, L.E., de Winter, N.J., DePaolo, D.J., and Claey, P., 2019, Multiproxy Cretaceous–Paleogene boundary event stratigraphy: An Umbria-Marche basinwide perspective, in Koeberl, C., and Bice, D.M., eds., 250 Million Years of Earth History in Central Italy: Celebrating 25 Years of the Geological Observatory of Coldigioco: Geological Society of America Special Paper 542, p. 133–158.
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