

Type of publication	Title	Authors	Title of the journal or equivalent	Link to publication (if no PID)
Book of abstracts	Combining agile exploration methods with mineral chemistry for better geo-modelling of critical raw materials in Assarel porphyry copper deposit	Peytcheva, I., Hikov, A. Georgiev, S., Stefanova, E. Dimitrova, D. Ivanov, D. Stoilov, V. Vasilev, I. Holma, M.	Geologica Balcanica. Official journal of the Carpathian-Balkan Geological Association, Abstract books	https://doi.org/10.5281/zenodo.16680617
Scientific communication (short paper)	Assessing the potential of Assarel porphyry copper deposit for critical raw materials: mineral-geochemical data for combination with agile exploration methods and better geo-modeling	Peytcheva, I., Hikov, A. Georgiev, S., Stefanova, E. Dimitrova, D. Ivanov, D. Stoilov, V. Vasilev, I. Holma, M.	REVIEW OF THE BULGARIAN GEOLOGICAL SOCIETY, vol. 83, part 3, 2022, p. 113–116	https://doi.org/10.52215/rev.bgs.2022.83.3.113
Publication in conference proceeding/workshop	Agile Exploration and Geo-modelling for European Critical Raw Materials – Introduction to the AGEMERA project	M. Holma, J. Kortenieni, G. Casini, E. Saura, F. Šumanovac, J. Kapuralić and F. Tornos	INSTITUTE OF SEISMOLOGY UNIVERSITY OF HELSINKI REPORT S-72, p. 51	https://doi.org/10.5281/zenodo.16681434
Other	Uudenlaisen geofysiikan äärellä: Osa 1 - Myönit ja myönigrafiän yleisimmät sovellukset	Holma, M., Kuusiniemi, P., Sarala, P. & Kortenieni, J.,	Geologi (Geology magazine for members of the Geological Society of Finland)	https://www.geologinenseura.fi/sites/geologinenseura.fi/files/geologi_artikkelit/geologi_2022_6_2_holma_ym_myonit.pdf
Other	Uudenlaisen geofysiikan äärellä: Osa 2 - Myönien havaitseminen ja myönikuvausten peruseriaatteen	Holma, M., Kuusiniemi, P. & Kortenieni, J.	Geologi (Geology magazine for members of the Geological Society of Finland)	https://www.geologinenseura.fi/sites/geologinenseura.fi/files/geologi_artikkelit/geologi_1_2023_s26_43_myonit_osa2.pdf
Book of abstracts	Applications of cosmic-ray muon imaging in Earth Sciences	Holma, M.	Proceedings of the Geological Society of Finland, Volume 3, Abstracts of the 1st GeoDays 14th-17th March 2023, Helsinki, Finland. University of Helsinki, p. 44.	https://doi.org/10.5281/zenodo.16681863
Book of abstracts	Horizon Europe project AGEMERA: Combining novel methodologies for agile exploration and geomodelling of critical raw materials deposits	Holma, M., Peytcheva, I., Šumanovac, I., Tornos, F. Nyambe, I., Joutsenvaara, J.	Proceedings of the Geological Society of Finland, Volume 3, Abstracts of the 1st GeoDays 14th-17th March 2023, Helsinki, Finland. University of Helsinki, p. 43.	https://doi.org/10.5281/zenodo.16682216
Book of abstracts	Using a new geophysical tool for improving underground safety in mining and civil engineering: time-sequential muography	Holma, M., Kortenieni, J., Kuusiniemi, P. & Zhang, Z.-X.	EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-3567.	https://meetingorganizer.copernicus.org/EGU23/EGU23-3567.html
Publication in conference proceeding/workshop	Petrology and geochronology of pre- to post-ore igneous rocks from Asarel porphyry Cu (±Au±Mo) deposit, Central Sredna Gora Zone, Bulgaria	Stoyan Georgiev, Irena Peytcheva, Elitsa Stefanova, Atanas Hikov, Albrecht von Quadt, Marcel Guillong , Desislav Ivanov	SEG 2023 Conference: Resourcing the Green Transition, Proceedings	https://www.segweb.org/SEG-2023/SEG-Conference/SEG-2023/Home.aspx
Article in journal	Numerical and Analytical Determination of Rockburst Characteristics: Case Study from Polish Deep Copper Mine	Witold Pytel, Krzysztof Fulawka, Bogumiła Pałac-Walko, Piotr Mertuska	Applied Sciences (IF 2.7)	https://doi.org/10.3390/app132111881
Publication in conference proceeding/workshop	Horizon Europe project AGEMERA: Combining novel methodologies for agile exploration and geomodelling of critical raw materials deposits	Jari Joutsenvaara, Marko Holma, Georg Meissner, Taras Matselyukh, Francisco Gutierrez and Leena Suopajärvi	GEOLOGICAL SURVEY OF FINLAND Open File Research Report 55/2023 EU SuperCluster Lapland Geoconference – October 30–31, 2023, Hotel Santa Claus, Rovaniemi, Finland	https://doi.org/10.5281/zenodo.16737994
Publication in conference proceeding/workshop	AGEMERA: Fueling a greener economy via innovative mineral exploration	Marko Holma	GEOLOGICAL SURVEY OF FINLAND Open File Research Report 55/2023 EU SuperCluster Lapland Geoconference – October 30–31, 2023, Hotel Santa Claus, Rovaniemi, Finland	https://doi.org/10.5281/zenodo.16738052
Publication in conference proceeding/workshop	AGEMERA project studies local people's perceptions: is the mineral industry supporting the future of local communities?	Leena Suopajärvi, Mari Tulilehto	GEOLOGICAL SURVEY OF FINLAND Open File Research Report 55/2023 EU SuperCluster Lapland Geoconference – October 30–31, 2023, Hotel Santa Claus, Rovaniemi, Finland	https://doi.org/10.5281/zenodo.16738069
Publication in conference proceeding/workshop	The AGEMERA -Agile Exploration and Geo-Modelling for European Critical Raw Materials Project: An Initiation to Secure the Supply Chain	Md Ariful Islam, Georg Meissner, Jari Joutsenvaara, Eija-Riitta Niinikoski, George Barakos, Helmut Mischo	Preprint 23-045, SME Annual Conference & Expo., February 26 – March 1, 2023, Denver, Colorado, USA	https://www.researchgate.net/publication/368983926_The_AGEMERA_Agile_Exploration_and_Geo-Modelling_for_European_Critical_Raw_Materials_Project_An_Initiation_to_Secure_the_Supply_Chain
Publication in conference proceeding/workshop	Application of International Standards to Evaluate the Potential of Sustainable Secondary Production of Tin and Tungsten in Portugal	Md Ariful Islam, José E. Brito Iria, Georg Meissner, George Barakos, Helmut Mischo	Materials Proceedings, 2023, 15, 22	https://doi.org/10.3390/materproc2023015022
Publication in conference proceeding/workshop	Beyond traditional methods: Muography's integration into applied geophysics for enhanced mineral discovery	Marko Holma	Laakso V. (ed.). Sovelletun geofysiikan XXIV neuvottelupäivät. 22.11.2023. Oulu. Abstraktikokoelma. Vuorimiesyhdistys. pp. 24-27.	https://www.researchgate.net/publication/375725064_Beyond_Traditional_Methods_Muography's_Integration_into_Applied_Geophysics_for_Enhanced_Mineral_Discovery
Other	Uudenlaisen geofysiikan äärellä: Osa 3 – Simulaatiot myönikuvaauksessa	Marko Holma, Pasi Kuusiniemi, Jarmo Kortenieni, Timo Enqvist, Kai Loo	Geologi (Geology magazine for members of the Geological Society of Finland)	https://www.geologinenseura.fi/sites/geologinenseura.fi/files/geologi_artikkelit/geologi_6_2023_s183-195.pdf
Scientific communication (short paper)	U-Pb geochronology of wolframite from Polski Gradets, Bulgaria and Barruocapardo, Spain, using in situ LA-ICP-MS technique.	Peytcheva, I. Georgiev, St., Ganey, V., Stavrev, M., Tornos, F., Holma, M.	REVIEW OF THE BULGARIAN GEOLOGICAL SOCIETY	https://doi.org/10.52215/rev.bgs.2024.85.2.191
Scientific communication (short paper)	New mineralogical and geochemical data on a potential critical raw materials occurrence at Polski Gradets (Southeastern Bulgaria)	Stavrev, M., Georgiev, St., Peytcheva, I., Stefanova, E., Chavdarova, S.	REVIEW OF THE BULGARIAN GEOLOGICAL SOCIETY	https://doi.org/10.52215/rev.bgs.2024.85.2.195
Scientific communication (short paper)	Mineral and chemical composition of the high-sulfidation epithermal Cu-V-Sn-As assemblage in the Assarel porphyry copper deposit, Central Srednogie	Dimitrova, D., Stefanova, E., Hikov, A., Georgiev, S., Peytcheva, I., Stoilov, V., Ivanov, D., Stavrev, M.	REVIEW OF THE BULGARIAN GEOLOGICAL SOCIETY	https://doi.org/10.52215/rev.bgs.2024.85.2.88
Publication in conference proceeding/workshop	Empowering Community Engagements: Knowledge and Sustainable Management of Critical Raw Materials	Md Ariful Islam, Georg Meissner, Jari Joutsenvaara, Karin Käär, Marcin Szumny, Catalina Vrabie, Ossi Kotavaara, Leena Suopajärvi, Helmut Mischo	MINEXCHANGE 2025 Preprints - SME Annual Conference & Expo., Denver, Co., USA	https://doi.org/10.5281/zenodo.16792732
Article in journal	Bauxite Exploration in Fold–Thrust Belts: Insights from the Posušje Region, Bosnia and Herzegovina	Giulio Casini, Eduard Saura, Ivica Pavičić, Ida Pavlin, Šime Bilić, Irena Peytcheva, Franjo Šumanovac	Minerals	https://doi.org/10.3390/min15040415
Publication in conference proceeding/workshop	Louhi - Novel Drone-Based Electromagnetic Survey System	Markku Pirttijärvi, Pekka Korkeakangas, Ari Saartenoja	NSG 2024 4th Conference on Airborne, Drone and Robotic Geophysics	https://www.earthdoc.org/content/papers/10.3997/2214-4609.202420098
Article in journal	Potential for restoration of biodiversity in karstic mining regions with small-scale mining sites: birds and pits	Grbeš Babić, Anamarija ; Dokoza, Vanda ; Lukač, Gordan ; Bilić, Šime	Euro-Mediterranean journal for environmental integration	https://doi.org/10.1007/s41207-024-00488-1

Book of abstracts	Exploration of karst bauxite deposits in the Dinarides using ground geophysical methods - possibilities and limitations	Šumanovac, Franjo; Kapuralić, Josipa; Perković, Luka; Grbeš Babić, Anamarija	EGU General Assembly 2025	https://doi.org/10.5194/egusphere-egu25-1638
Article in journal	Bauxite exploration in fold–thrust belts: insights from the Posušje Region, Bosnia and Herzegovina	Casini, Giulio; Saura, Eduard; Pavičić, Ivica; Pavlin, Ida; Bilić, Šime; Peytcheva, Irena; Šumanovac, Franjo	Minerals	https://doi.org/10.3390/min15040415
Book of abstracts	Application of machine learning for fast detection of karst bauxite deposits based on synthetic geophysical models	Kapuralić, Josipa; Perković, Luka; Šumanovac, Franjo	European Association of Geoscientists & Engineers (EAGE), NSG 2024 5th Conference on Geophysics for Mineral Exploration and Mining, 2024	https://www.earthdoc.org/content/papers/10.3997/2214-4609.202420205
Book of abstracts	Assessment of geophysical methods in the discovery of karst bauxite deposits in the Dinarides	Šumanovac, Franjo; Kapuralić, Josipa ; Perković, Luka ; Pavičić, Ivica	European Geoscientists Union, 2024,	https://doi.org/10.3390/min14040378
Article in journal	Assessment of Near-Surface Geophysical Methods Used to Discover Karst Bauxite Deposits in the Dinarides Using the Example of Posušje Area, Bosnia and Herzegovina	Šumanovac, Franjo; Kapuralić, Josipa; Pavičić, Ivica; Perković, Luka	Minerals	https://doi.org/10.3390/min14040378
Book of abstracts	Petrographic, mineralogical and chemical characteristics of bauxite from Posušje deposits, Bosnia and Herzegovina – AGEMERA project research	Bilić, Šime; Peytcheva, Irena; Georgiev, Stoyan; Hikov, Atanas; Pavičić, Ivica; Šumanovac, Franjo; Holma, Marko	7th Croatian Geological Congress with international participation	https://doi.org/10.5281/zenodo.16781235
Publication in conference proceeding/workshop	Posušje bauxites in Bosnia and Herzegovina : a source of critical raw materials and a paleoclimatic marker	Peytcheva, Irena; Bilić, Šime; Georgiev, Stoyan; Pavičić, Ivica; Šumanovac, Franjo; Hikov, Atanas; Holma, Marko; Guillong, Marcel; Grubišić, Ivan	Review of the Bulgarian Geological Society. National Conference with International Participation “GEOSCIENCES 2023”	https://doi.org/10.52215/rev.bgs.2023.84.3.133
Publication in conference proceeding/workshop	Petrography and geochemistry of Cretaceous bauxites from Jajce, Bosnia and Herzegovina	Bilić, Šime; Peytcheva, Irena; Georgiev, Stoyan; Hikov, Atanas; Pavičić, Ivica; Deljak, Gordana; Šumanovac, Franjo; Holma, Marko	Review of the Bulgarian Geological Society. National Conference with International Participation “GEOSCIENCES 2023”	https://doi.org/10.52215/rev.bgs.2023.84.3.77
Book of abstracts	Metallogeny of the Dinarides in the frame of the Wilson cycle	Palinkaš, Ladislav A. ; Palinkaš, Sabina S. ; Borojević Šošarić, Sibila ; Šumanovac, Franjo	XXII International Congress of the Carpathian-Balkan Geological Association (CBGA)	https://doi.org/10.5281/zenodo.16792512
Book of abstracts	Facies analyses of the Upper Cretaceous bauxites in the Jajce area, Bosnia and Herzegovina, in response to lithospheric bulges caused by compressional regime during the gradual closure of the Dinaridic part of the Tethys	Palinkaš, Ladislav A. ; Šumanovac, Franjo ; Kapuralić, Josipa ; Rajić, Gordana	XXII International Congress of the Carpathian-Balkan Geological Association (CBGA)	https://doi.org/10.5281/zenodo.16792564
Article in journal	Modelling cover-collapse sinkholes that appeared after the M6.2 Petrinja earthquake in Croatia using electrical resistivity tomography data	Šumanovac, Franjo ; Pekaš, Želimir	Sustainability	https://doi.org/10.3390/su15021124
Article in journal	The Horizon Europe AGEMERA Project: Innovative Non-Invasive Geophysical Methodologies for Mineral Exploration	Joutsenvaara, J., Holma, M., Kuusiniemi, P., Korteniemi, J., Seivane, H., Marti-Linares, D., Schimmel, M., Casini, G., George Buffett, G., Pirttijärvi, M., Saartenoja, A., Štimac Tumara, B. & Kapustin, I.	Advances in Geosciences ("ADGEO")	https://doi.org/10.5194/adgeo-65-171-2025
Abstract	AGEMERA: Integrating Non-Invasive Geophysical Technologies, AI, and Social Strategies for Sustainable Critical Raw Material Exploration in Europe	Joutsenvaara, J., Holma, M., Niinikoski, E.-R., Suopajarvi, L., Islam, Md A., Meissner, G., Saartenoja, A., Štimac Tumara, B., Vrabie, C., Nemethy, A. & Käär, K.		https://doi.org/10.5194/egusphere-egu25-5708
Article in journal	Application of Muon Tomography in Bauxite Exploration	Holma, M., Balázs, L., Surányi, G., Demők, S. & Kuusiniemi, P.	Journal of Applied Physics	https://doi.org/10.1063/5.0273513
Article in journal	Mineralogy, petrology, geochemistry and U-Pb zircon age of Upper Cretaceous bauxites from Jajce, Bosnia and Herzegovina	Bilić, Šime; Peytcheva, Irena; Georgiev, Stoyan; Holma, Marko; Hikov, Atanas; Pavičić, Ivica; Šumanovac, Franjo; Deljak, Gordana; Kurylo, Sergii; Guillong, Marcel	Ore Geology Reviews	https://doi.org/10.1016/j.oregeorev.2025.106736