

## **Associated Professor Dr. rer. nat. Seyed Mohammad Amin Emami**

**e-Mail:**

[emami@chemie.uni-siegen.de](mailto:emami@chemie.uni-siegen.de)  
[aminemami.ae@gmail.com](mailto:aminemami.ae@gmail.com)  
[m.emami@aui.ac.ir](mailto:m.emami@aui.ac.ir)

**Tel: 0912 5270610**



Web of Science Researcher ID: A-7928-2014

ORCID: 0000-0002-7484-1991

Scopus ID: 55543752400

## **Education**

1998 – 2002	B. Sc. & M.Sc. in Mineralogy, Johannes Gutenberg University of Mainz, Faculty of Petrology & Mineralogy
2004 – 2008	Dissertation (Dr.rer.nat), in Mineralogy, Crystallography and Crystal Chemistry in University Siegen, faculty of Building Material Chemistry by
2010 – till now	Habilitation at the University Siegen, in Mineralogy and Crystallography, faculty of Building Material Chemistry by Prof. Dr. habil. R. Trettin.
2009 - 2015	Assistant professor in Mineralogy and Crystallography at the Art University of Isfahan
2015 –	Associated professor in Mineralogy and Crystallography at the Art University of Isfahan

## **Research Interests**

- 1) Crystallographical & phase characterization through Rietveld Refining Method.
- 2) Multi crystal texture and single crystal texture analysis
- 3) Syncrotron Radiation (QPXRD-Beamline)
- 4) Thin section chemical petrography, petrography and phase determination.
- 5) Ore petrology as well as mineralogical chemical investigation on slag.
- 6) Clay mineralogy
- 7) Surface modification technology
- 8) Archaeometallurgy & Archaeometry
- 9) Characterization of ceramic's structure and their procedure.
- 10) Mineralogical chemical investigation on building material chemistry.

## **Fellowships**

- 1 2010, AAA (Akademisches Auslands Amt) fellowship for three months at the University of Siegen, department of Building material chemistry
- 2 2017, DAAD scholarship for three months at the University of Siegen, department of Building material chemistry
- 3 2020, IdEx, International excellence fellowship for 6 months at the IRAMAT intitute for archaeometrical research, University of Bordeaux Montaigne, Rfance

## **Position Held**

- 1996 – 1998 Responsible in Metallographic Labor at Research Center of Conservation and Restoration, Teheran.
- 1998 – 2002 Assistant by Prof. Dr. Ingo Keesmann in applied mineralogy & ore petrology, University Mainz, Germany.
- 2002 – 2003 Geochemist at Max-Planck-Institute for Chemistry in Mainz by PD. Dr. J. Snow. Scientific assistant in AMORE international project (Arctic Middle Ocean Ridge Expedition).
- 2003 – 2006 Head of Geology and Archaeometry Department of Parsa Pasargadae Research Foundation (World Cultural Heritage Site of Takht-e Djamshid), Shiraz, Iran.
- 2005 – 2008 AAA Scholarship as scientific assistant, and doctoral candidate at Institut of Building Material Chemistry, University Siegen under supervising of Prof. Dr. habil. R. Trettin
- 2006 – 2008 Teaching experiences for the Economic Geology and Ore Petrology and Mineralogy as well as Polarization-, Confocal-, Atomic Force Microscopy and XRF, XRD facilities.
- 2009 – 2015 Assisstant Prof. at Art University of Isfahan, faculty of Conservation
- 2010 – 2015 Director of Education and Graduate Studies
- 2015 – till now Head of International & Scientific Cooperation Office
- From 2010 Gast Scientist at Department of Building Material Chemistry, University Siegen

## **Language**

German (fluent), English (fluent), French (intermediate), Spain (intermediate), Persian (native)

## **Journal Editorial Board**

- 1) Journal of Geologia Columbia (Member of Editorial)
- 2) Journal of Geological Resource and Engineering (Member of Editorial)
- 3) Journal of Archaeological Science (Referee)
- 4) Material Science and Engineering (Referee)
- 5) American Association for Science and Technology (Referee)
- 6) International Journal of Geophysics and Geochemistry (Member of Reviewing Board)
- 7) Natinoal Journal of Science of Conservation and Restoration (Member of Editorial)
- 8) Journal of Resarch on Archaeometry (Member of Editorial)

## **Memberships**

- 1) Member of Iranian Mineralogy and Crystallography Society
- 2) Member of Iranian National Project of High Energy Beamline (Syncrotron)
- 3) Member of Iranian Mining Engineering Organization
- 4) Member of DGAA, German Association for Analytical Archaeology and Archaeometry
- 5) Member of Material Chemistry Association of Germany
- 6) Member of Union Internationale des Sciences Préhistoriques et Protohistoriques  
International Union of the Prehistoric and Protohistoric Sciences União Internacional  
Das Ciências Pré-Históricas e Proto-Históricas (UISPP).

## **Awards and Grants**

- 1) Students award from AAA Germany (2008)
- 2) Outstanding Scientist in Isfahan Province (1390)
- 3) Outstanding Scientist in Isfahan Province (1393)
- 4) Outstanding Scientist in Isfahan Province (1395)
- 5) Outstanding Scientist in Cultural Heritage Science (1397), Dep. Conservation & Restoration of Cultural Relics
- 6) DAAD grant for scientific collaboration June-July-August 2018.
- 7) IdEx Fellowship, Professeur invite', Institut de recherche sur les Archéomatériaux. Centre de recherche en physique appliquée à l'archéologie. France, 2020.

## **International & National Courses and Seminars**

14. (2020), Dr. rer. nat. S. Mohammadamin Emami, Historic-Smart, Temple of "Tepti Ahar", an impressive remembrance of bricks and mortar technology in 3rd Millennium BC, Khouestan, Iran, Institute for Baugeschichte und Bauforschung, Technical University, Wien.
13. (2020), Dr. rer. nat. S. Mohammadamin Emami, Rietveld Refining Methods for Postgraduate, IRAMAT, 1), Institut de recherche sur les Archéomatériaux. Centre de recherche en physique appliquée à l'archéologie
12. (2018), Dr. rer. nat. S. Mohammadamin Emami, Application of Synchrotron radiation in Cultural Heritage, Investigation on the characterization of ancient glasses from Chogha-Zanbil, RCCCR, Tehran, Iran.
11. (2018), Dr. rer. nat. S. Mohammadamin Emami, Rietveld Refining Methods for Postgraduate, Department of Building Material Chemistry, University Siegen, Germany.
10. (2017), Dr. rer. nat. S. Mohammadamin Emami, Applied Mineralogy in Science and Technology, Department of Geology, 2/9/95, University Isfahan, Iran
9. (2017), Dr. rer. nat. S. Mohammadamin Emami, Archaeometry and characterization and manufacturing process of ancient ceramics, Department of Archaeology, University Tehran, Iran

8. (2017), Dr. rer. nat. S. Mohammadamin Emami, Characterization of Glass damaging process in mineralogical point of view, Research Centre for Conservation and Restoration of Cultural Relics, Tehran, Iran 7/6/96
7. (2016), Dr. rer. nat. S. Mohammadamin Emami, Instruction for writing a Scientific Paper (ISI), Art University of Isfahan, 14-17/11/94
6. (2016), Dr. rer. nat. S. Mohammadamin Emami, Lecture, Archaeometallurgy (from Macro to Micro) from 18<sup>th</sup>-23<sup>th</sup> June, department of Chemistry, Uni-Urbino, Italy.
5. (2014), Dr. rer. nat. S. Mohammadamin Emami, Kompakt Kurs, Angewandte Petrologie im Intitut fuer Bau- und Werkstoffchemie, Universitaet Siegen, FB Chemie und Biologie
4. (2012), Dr. rer. nat. S. Mohammadamin Emami, Director of Education and Graduate Studies at the Art University of Esfahan, Iran, Faculty of Conservation, *Multi analytical approach on bricks material from the Iranian-Italian excavations at Tol-e Ajori*, Martedì 25 giugno, ore 12, Dipartimento Di Beni Culturali, Via Degli Ariani 1, 48121 Ravenna, Informazioni 0544.936711 - www.Beniculturali.Unibo.it
3. (2012), Dr. rer. nat. S. Mohammadamin Emami, Kompakt Kurs, Advance Material Chemistry and Ceramography im Intitut fuer Bau- und Werkstoffchemie, Universitaet Siegen, FB Chemie und Biologie
2. (2011), Dr. rer. nat. S. Mohammadamin Emami, Kompakt Kurs, Polarizationsmikroskopie im Intitut fuer Bau- und Werkstoffchemie, Universitaet Siegen, FB Chemie und Biologie
1. (2012), Dr. rer. nat. S. Mohammadamin Emami, Kompakt Kurs, Advance Microscopy in Material Science im Intitut fuer Bau- und Werkstoffchemie, Universitaet Siegen, FB Chemie und Biologie

## Research Projects

- 1) (2004), M. Emami, Mineralogical- chemical investigation on the archaeometallurgy of Meymand, Kerman.
- 2) (2009), M. Emami, Mineralogical- chemical investigation on the pottery production technology in Haft-Tappeh, Art University of Isfahan
- 3) (2010), M. Emami, Archaeometry Study Graduate Program, Art University of Isfahan
- 4) (2010), M. Emami, O. Oudbashi, Bronze in the Archaeology, Art University of Isfahan
- 5) (2012), M. Emami, Comparative studies on the characterization of marbel stones from Jiroft and Shahr-e Sokhte, Iran, Art University of Isfahan
- 6) (2017), M. Emami, Minning and slag petrology from the mineralogenic zone of Nakhlak-Anarak for characterizing the rare earth elements enrichments. Research Center for Conservation of Cultural Relics, Tehran, Iran
- 7) (2017), M. Emami & F. Bayat, Multi-Analytical research on the characterization of glass workshops from ancient Gorgan Wall. Cultural Heritage Organization of Golestan, Iran.
- 8) (2017), M. Emami, A. Rozatian, M. Hadian Dehkordi, Ch. Pritzel, R. Trettin. Material characterization of the primary prehistoric glass samples (3rd Millennium BC) from Iran; An archaeometrical approach to glass manufacturing process, ALBA Synchrotron Cell center, Barcelona, Spain.

- 9) (2018), M. Emami & Rouzatian, A. S. H., Characterization of glass textures under the light of Syncrotron, Horizon 2020, Institut for Research in Foundamental Sciences, Tehran, Iran.
- 10) (2019), M. Emami and M. Shalikarian, Characterization and Provenance of the stone used in Khaled-Nabi cemetary, Gorgan, Cultural Heritage Organization of Golestan province.
- 11) (2020), M. Emami. Silver characterization and composition from Shahr-e Firouzeh, Neishabour, Khorasan, Art University of Isfahan.
- 12) (2021), M. Emami. Emergence of arsenic-copper metallurgy in south eastern iran and eastern anatolia: interpreting ancient metal technology and metal routes through a multi-analytical approach. International Cooperation with University Istanbul, department of Archaeology, partnerin, Associate Prof. Dr. Gonca Dardeniz Arikan

## Publication

M. Emami, R. Chapoulie, K. Abdi (2021). Cathodoluminescence microscopy for interpreting the fabric and heating process of ancient pottery ; preliminary study on the technological features of pottery from the Kur River Basin. Journal : Archaeometry, 1–20. DOI : 10.1111/arcm.12718

47. Tayyari, J., Emami, M. & Agha-Aligol, D. 2021. Identification of Microstructure and Chemical Composition of a Silver Object from Shahrak-e Firouzeh, Nishapur, Iran (~ 2nd millennium BC). Surfaces and Interfaces, 101168.
46. Emami, M., Vallcorba, O., Rozatian, A. S. H., Hadian Dehkordi, M., Talaee, H. & Chapoulie, R. 2021. Synchrotron micro-XRD applied for the characterization of pottery from the Neolithic to Chalcolithic transitional period: a case study from Tappeh Zaghe, Iran. The European Physical Journal Plus, 136(63), pp.
45. Heydarian, M., F. Hajinorouzi, A. Khosrowzadeh, S. I. Beheshti, and M. Emami, 2020, Insight into the provenance and clustering of Middle Chalcolithic Ceramics from Chaharmahal-Bakhtiari, Iran: Using petrographic and ICP-OES analysis, Journal of Archaeological Science: Reports, 34.
44. Emami, M., Rozatian, A.S.H., Vallcorba, O., Anghelone, M., Dehkordi, M.H., Pritzel, C., Trettin, R., 2020. Synchrotron micro-XRD study, the way toward a deeper characterizing the early prehistoric Iranian glass cylinders from Late Bronze Age (1280 BC), The European Physical Journal Plus 135, 1-14.
43. Heydarian, M., Abdorrahimian, F., Emami, M., Beheshti, S. I., (2020), The provenance and distribution of Early Bronze ceramics in the Kolyaei Plain, central Zagros, Iran Archaeometry., Early View First published: 03 March 2020
42. Emami, M., (2020), Production of Pottery from Esfandaghe and Jiroft, Iran, late 7th - early 3rd Millennium BC, Material and Manufacturing Process, Vol 35, Issue 3, pp 1446-1454.
41. Emami, M., Török, B., Barkóczy, P., Eslami, M., (2020), New insight on Late Bronze Age adjustment of high-Tin bronze metallurgy in Haft Tappeh (2<sup>nd</sup> millennium BC), southern Iran, Metallography and microstructure (in Publishing).

40. Kassiri, M., Shahrsabzi, Sh., Emami, M., Razani, M., (2020), Provenance of the stones used in plinths of the Achaemenid palaces of Borazjan, South-Western of Iran, Journal of Archaeological Science: Reports 29 (2020) 102064.
39. Emami, M. and Emami, S. N., (2020), A time-dependent statistical evaluation of the ceramic manufacturing process based on the mineralogical chemical analysis, ArchaeoScience, 44(2), 7-17
38. Emami, M., (2019), Achaemenid bronze! Quid est? Archaeometallurgical investigations on some bronze artefacts from Persepolis, L'Orient est son jardin, Hommage à Rémy Boucharlat, Serie Acta Iranica, 58, Editors: Gondet S., Haerinck E., Pp 157-167.
37. Emami, M., Khanjari, R. and Naghavi, S., (2019), Identification of microstructure and chemical composition of Celadon wares from the Harireh ancient city of Kish Island, Iran, Periodico di Mineralogia, vol. 88, 105-115
36. Emami, M. and Jafari, J., (2019), Archaeometallurgical Studies on Corrosion behaviour of Cu-As Alloys from "Lama" (2<sup>nd</sup> Millennium BC), Iran, in new Results and Analytical Methods to Characterize Pre- and Protohistoric Metals and other Inorganic Materials, quest editors Béla Török, Alessandra Giumenti-Mair, Maria Pia Riccardi Péter Barkóczy, UISPP Journal, the Journal of the International Union of Prehistoric and Protohistoric Sciences Revue de l'Union internationale des sciences préhistoriques et protohistoriques, ISSN 261-2782, Vol. 2 Special Issue 1- 2019, Pp. 24-32
35. Pedram, B., Emami, M., Khakban, M., (2019), Role of the Open-Air Museum in the Conservation of the Rural Architectural Heritage, Conservation Science in Cultural Heritage, 101-120.
34. Daghmehchi, M., C. Rathossi, H. Omrani, M. Emami, and M. Rahbar, (2018), Mineralogical and thermal analyses of the Hellenistic ceramics from Laodicea Temple, Iran, Applied Clay Science, 162, 146-154.
33. Naeimi Taraei, P., Dolati, A. and Emami, M., (2018), An investigation of the corrosion behavior of some iron artifacts belonging to the early Iron Age, International Journal of Conservation Science, volume 9, issue 2, 277-290.
32. Emami, M., Eslami, M., Fadaei, H., Karami, H., Ahmadi, K., (2018), Mineralogical–Geochemical Characterization and Provenance of the Stones Used at the Pasargadae Complex in Iran: A New Perspective, Archaeometry, 60 (6), 1184-1201.
31. Noghani, S., Amiri, M.C., Emami, M., (2018), A New Approach to the Desalination Process of Archaeological Potteries, Mediterranean Archaeology and Archaeometry 18(1), 255-267.
30. Amadori, M.L., Pallante, P., Fermo, P., Emami, M.A., Chaverdi, A.A., Callieri, P., Matin, E., (2018), Advances in Achaemenid brick manufacturing technology: Evidence from the monumental gate at Tol-e Ajori (Fars, Iran), Applied Clay Science 152, 131-142.
29. Bayat Nejad, F. and Emami, M., (2017), Applying optical and electron microscopy in ancient glasses destruction process. Iranian Conservation Science Journal, vol. 1, issue 1, 35-46.

28. Emami, Mohammadamin, Mehdi Razani, Nader Alidadi Soleimani, and Youssef Majjidzadeh. (2017). "New insights into the characterization and provenance of chlorite objects from the Jiroft civilization in Iran." *Journal of Archaeological Science: Reports* 16:194-204. doi: 10.1016/j.jasrep.2017.10.004.
27. Mohammadamin Emami, 2016, Achaemenid Bronze! Quid Est? Archaeometallurgical Investigations on Some bronze Artefacts From Persepolis, (under Publishing)
26. Daghmehchi, M., Omrani, H., Emami, M. & Nokandeh, J., (2016), Mineralogical and thermo-chemical characteristics of the Hellenistic ceramics and raw clay from Qizlar Qal'eh (northeastern Iran), *Materials Characterization*, 120, 143–151
25. Amiri, M. C., Noghani, S. & Emami, M., (2016), Investigation on the role of agitation in the desalination process of ceramics, *Conservation Science in Cultural Heritage*, 15, 111-121
24. Emami, M., Kowald, T. & Trettin, R., (2016), Preliminary archaeometallurgical studies on copper extraction from polymetallic ore sources in Meymand, south central Iranian desert, *Journal of Archaeological & Anthropological Science*, 9, 1515-1528, DOI: 10.1007/s12520-016-0319-y
23. Emami, M., Nekouei, S., Ahmadi, H., Pritzel, Ch. & Trettin, R., (2016), Iridescence in Ancient Glass: A Morphological and Chemical Investigation, *International Journal of Applied Glass Science*, 7, 59–68, DOI:10.1111/ijag.12182
22. Emami, M., Sakali, Y., Pritzel, Ch. & Trettin, R., (2015), Deep inside the ceramic texture: A microscopic–chemical approach to the phase transition via partial-sintering processes in ancient ceramic matrices, *Journal of Microscopy and Ultrastructure*, Available online 6 September 2015
21. Shalikarian, M. & Emami, M., (2015), Characterisation and Clustering of Bronze and Iron Age Grey pottery from Gohar Tappe (4th – 2nd millennium BC, Iran), *Old Potter's Almanack*, vol. 20/1, pp. 11-17.
20. Emami, M., (2015), Finally, a Slag-Heap; new insight into the archaeometallurgy of iron smelting technology during the Achaemenid Empire in "Persepolis", Iran (550–330 BC), *Metalla, Sonderheft 7*, Bochum, pp. 186-188
19. Soleimani, P. & Emami, M., (2015), Petro Logical Chemical Investigations for Characterization of Marble Stones Discovered Konar-Sandal (Jiroft-Iran), *Journal of earth science and Engineering*, 5, 241-250, doi: 10.17265/2159-581X/2015. 04. 003
18. Ghobadi, A., Emami, M., Aslani, H., (2014), Hydrogeological Survey for Interpretation of Damaging Process in Ancient Grave of Naqsh-e-Rostam, Iran, *Journal of Geological Resource and Engineering*, 3 (2014), pp. 180-188
17. Noghani, S., Emami, M., (2014), Mineralogical Phase Transition on Sandwich-like Structure of Clinky Pottery from Parthian Period, Iran, *Periodico di Mineralogia*, 83, 2, 171-185

16. Emami, M., (2014), "TOROUD", The Late Motion for As-Sb Bearing Cu Production from 2<sup>nd</sup> Millennium Bc in Iran: An Archaeometallurgical Approach, *Mediterranean Archaeology and Archaeometry*, Vol. 14, No 2, pp.185-204
15. Oudbashi, O., Emami, M., davami, P., Ahmadi, H., (2014), Archaeometallurgy and Smelting Technology of Copper in Haft Tappeh Ancient Site of Khouzestan; second Millennium BC, *Journal of Metallurgical Engineering*, 25/2, pp. 100-112 (in Persian).
14. Oudbashi, O., Emami, M., Ahmadi, M., Davami, P., (2013), Micro-stratigraphical investigation on corrosion layers in ancient Bronze artefacts by scanning electron microscopy energy dispersive spectrometry and optical microscopy, *Heritage Science*, vol. 1:21
13. Oudbashi, O., Emami, M., Malekzadeh, M., Hassanpour, A., Davami, P., (2013), Archaeometallurgical studies on the bronze vessels from "Sangtarashan", Lorestan, Iran, *Iranica Antiqua*, vol. XL VIII, 147-174
12. Emami, M. & Bigham, M., (2013), Mechanism of Corrosion due to Unalloyed Copper Inclusion in Ancient Bronzes, *Surface Engineering*, vol. 29/2, 128-133
11. Emami, M., Trettin, R., (2013), High Tech in 5100 BC; multianalytical approach for characterisation of decorated pottery from Tappeh-Zaghe, *Surface Engineering*, vol. 29/2, 134-139
10. Emami, M. & Trettin, R., (2012), Mineralogical- chemical investigations on the ceramic technology in Čogā Zanbil, (Iran, 1250 BC), *Periodico di Mineralogia*, vol.81, 3, 359-377
9. Emami, M. A. (2012), Preliminary studies on mining methods used in Sivand quarries during the Achaemenian period in Fars province, Iran, *Journal of Geologia Colombiana*, vol. 35, pp. 175-185
8. Emami, M. A. (2011), QXRD, XRF and optical microscopy applied to characterization and provenance of ancient ceramics from Haft Teppah (1500 – 1150 BC), southwest Iran, 2011, IOP Conf. Series: Materials Science and Engineering 37, pp. 1-8
7. Emami, M. A. & Trettin, R., (2010), Phase generating processes in ancient ceramic matrices through microstructure investigation with high resolution microscopy methods. *Journal of Advanced Microscopy Research* , issue 5, vol. 11, pp. 181-189.
6. Oudbashi, O. & Emami, M. A., (2010), A note on the corrosion morphology of some middle elamite copper alloy artefacts from Haft-Tappeh, south west Iran. *Studies in Conservation* , issue 55, vol 1, pp.20-25.
5. Emami, M. A. & Yaghmaei, B., (2009), Remote sensing methods for investigation and recognition of the ancient mining activities (case study on Cu-Fe-Mn mineralization in western part of central iranian zone). *Metalla* , issue 15, vol. 1, pp.3-20.
4. Emami, M. A., Kowald, T. & Trettin, R., (2009), Mineralogical and chemical investigation on the recrysatallization process during sintering in face-interface areas in ancient ceramic matrices. *Materials and Manufacturing Processes* , issue 24, vol. 9, pp. 934-941.

3. Emami, M. A. & Volkmar, J. & Trettin, R., (2008), Quantitative characterization of damaging mechanisms in ancient ceramics by quantitative X-ray powder diffraction, polarization microscopy, confocal laser scanning microscopy and non contact mode atomic force microscopy, *Surface Engineering*, issue 24, vol. 2, pp. 129-137

2. Emami, S.M.A., (2008), „Mineralogisch chemische Untersuchungen zur Archaeometrie elamischer Keramiken aus Khousestan, Iran“ Dissertation, Universitaet Siegen, URN: nbn:hbz:467-3603.

1. Emami, M. A., (2002), „Mineralogische Untersuchungen zur Archäometallurgie von Toroud, Iran“, Diplomarbeit, Juhannes Gutenberg Universität, Mainz, not Published, Archive of Deutsche Bergbau Museum-Bochum, Germany

## Publications in Persian

1. مهدی رازانی، سید محمد امین امامی، عباس عابد اصفهانی، یوسف مجید زاده، 1388، نشریه پژوهشگاه علوم انسانی و مطالعات فرهنگی، سال 5، شماره 3، ص 40-29
2. یوسف مجید زاده، سید محمد امین امامی، مهدی رازانی، 1389، جایگاه سنگ نرم در محوطه های عصر مفرغ ایران، کتاب تخصصی علمی - پژوهشی فرهنگستان هنر (گنجینه)، کتاب دوم.
3. امید عودبashi، سید محمد امین امامی، پرویز دوامی، 1390، ریخت شناسی خوردهای در برزنهای تاریخی: تحلیل فرایند مس زدایی در اشیا برزنسی هفت تپه خوزستان، مرمت آثار و باقیهای تاریخی، دوره 1، شماره 1، ص 83-93.
4. سمیه نوغانی، سید محمد امین امامی، 1390، ساختار شناسی سفال جلینگی متعلق به دوران پارتی بر اساس مطالعات آرکئومتریک، مطالعات باستان شناسی دانشگاه تهران، دوره 3، شماره 2، ص 15-34
5. سید محمد امین امامی، سمیه نوغانی، 1392، بررسی روند کربناتیزاسیون مجدد و شکل گیری کلسیت ثانویه در سفال های باستانی بر اساس مطالعات پتروگرافیک، مجله مرمت و معماری ایران (مرمت آثار و باقیهای تاریخی)، سال 3، شماره 5، ص 55-68
6. سمیه بصیری، رسول وطن دوست، سید محمد امین امامی، حسین احمدی، 1392، هنرهای سنتی و اسلامی، جایگاه ارتباطی درک و دریافت مخاطبان آثار هنری از نظرگاه اندیشه‌مندان و اصول حفاظتی، شماره 1، 87-108
7. سمیه بصیری، رسول وطن دوست، سید محمد امین امامی، حسین احمدی، 1393، تاریخ و فرهنگ، سیر تاریخی و اندیشه‌ای حفاظت میراث فرهنگی از منظر جایگاه مفهومی تمامیت (یکپارچگی)، شماره 92، ص 85-108
8. سمیه بصیری، رسول وطن دوست، سید محمد امین امامی، حسین احمدی، 1393، تبیین مفهوم تمامیت در حوزه آثار موزه ای از منظر نویسندهای مؤثر بر تبیین، مجله مرمت و معماری ایران (مرمت آثار تاریخی و فرهنگی)، سال 4، شماره 8، ص 111-131
9. امید عودبashi، سید محمد امین امامی، حسین احمدی، پرویز دوامی، 1393، فلزگری کهن و استحصال مس در محوطه باستانی هفت تپه خوزستان هزاره دوم قبل از میلاد، نشریه مهندسی متالورژی و مواد، سال 25، شماره 2، 99-112
10. سید محمد امین امامی، سیمین آریا نسب، حسین احمدی، علیرضا عسگری چاورdi، پیر فرانجسکو کالیری، 1394، روش های باستان سنجی به منظور ساختار شناسی آجرهای کشف شده از تل آجری تخت جمشید، مطالعات باستان شناسی دانشگاه تهران، دوره 6، شماره 2، ص 1-19
11. سید محمد امین امامی، 1394، بررسی تکنولوژی سفالگری در تپه زاغه از 5100 تا 4900 پیش از میلاد) از ما کرو تا میکرو، بادواره علمی ترویجی مفاخر میراث فرهنگی، ص 295-306

12. مليکا یزدانی، حسین احمدی، سید محمد امین، مهناز عبداله خان گرجی، 1394، گاهنگاری سفال مینایی بر اساس نمونه های کتیبه دار، هنرهای تجسمی، شماره 63، ص 45-56
13. سید محمد امین امامی، 1394، باستان سنجی پلی میان علوم طبیعی و مهندسی با باستان شناسی (اهداف و دورنمایها)، پژوهه باستان سنجی، سال 1، شماره 2، ص 75-82
14. فریده امینی بیرامی، مهدی رازانی، ابراهیم اصغری کلچاهی، سید محمد امین امامی، علیرضا باغبانان، 1394، تحلیل ساختار شناسی سنگهای آذر آواری در معماری صخره کند روستای تاریخی کندوان، پژوهه باستان سنجی، سال 1، شماره 1، ص 1-16
15. محمد امین امامی، پروین سلیمانی، مریم اکبری فرد، 1395، مقایسه و بررسی ساختار ظروف سنگ مرمر منطقه جیرفت و شهر سوخته بر اساس مطالعات آزمایشگاهی XRD-XRF و پتروگرافی، مطالعات باستان شناسی دانشگاه تهران، دوره 7، شماره 2، ص 12-1
16. سمیه نوغانی، محمد امیری، سید محمد امین امامی، 1395، تعیین پارامترهای موثر بر فرایند نمک زدایی سفالینه های بدون لعب در سیستم غوطه وری با استفاده از روش طراحی آزمایشات پاسخ سطح، مجله مرمت و معماری،
17. حمید فدایی، سید محمد امین امامی، ایوب کریمی جشنی، آربتا میرزا، 1395، باستان سنجی آجرهای ایلامی میانه در محوطه میراث جهانی چغازنبیل، مجله علوم باستان شناختی، سال اول، شماره 1، ص 1-13
18. مسعود دارابی، علی سجادی، حمیده چوبک، سید محمد امین امامی، 1395، مطالعات اولیه ساختار شناسی و فاز شناسی بر روی ظرف مفرغی سایت فرودگاه خرم آباد - لرستان، علوم باستان شناختی، سال اول، شماره 1، ص 27-41
19. سمیه نوغانی، محمد امیری، سید محمد امین امامی، 1395، ارزیابی عملکرد شاخص هدایت الکتریکی در پایش فرایند نمکزدایی سفالینه های تاریخی، نشریه شیمی و مهندسی شیمی ایران، دوره 35، شماره 4، 151-159
20. مليکا یزدانی، حسین احمدی، سید محمد امین امامی، محمد لامعی رشتی، داود آقاعدی گل، مهناز عبداله خان گرجی، حمیده چوبک، 1395، شناخت فنون ساخت و اجرای لایه زراندود در سفال مینایی، بر اساس مطالعات میکروسکوپی و منابع کهن، پژوهش‌های باستان شناسی ایران، شماره 14، 161-178
21. مليکا یزدانی، سید محمد امین امامی، حسین احمدی، محمد لامعی رشتی، مهناز عبداله خان گرجی، داود آقاعدی گل، 1395، مطالعه شیوه ساخت و اجرای تزئینات بر جسته و زراندود در سفال مینایی دوران میانی اسلامی در ایران، هنرهای صناعی ایران، در دست چاپ.
22. سمیه نوغانی و سید محمد امین امامی، 1396، بررسی کمی فراوردهای فرایند پخت در محیط اکسایش بر اساس ترتیب پراش پرتو X در سرامیکهای رسی، مجله بلور شناسی و کانی شناسی، سال 25، شماره 3، 595-608
23. مهدی رازانی، سید محمد امین امامی، علیرضا باغبانان، 1395، طبقه بندی و تحلیل کاربردی معماری صخره ای در دامنه کوه آتشفشاری سهند در شمال غرب ایران، پژوهش‌های ایران شناسی، سال 6، شماره 2، 43-63
24. سید محمد امین امامی و سجاد پاک گهر، 1396، مفتول های شیشه ای چغازنبیل؛ اولین نشانه های شیشه گری ایران در هزاره دوم پیش از میلاد، پژوهه باستان سنجی سال 3، شماره 1، 1-15
25. مليکا یزدانی، سید محمد امین امامی، حسین احمدی، محمد لامعی رشتی، مهناز عبداله خان گرجی و داود آقا علیگل، 1396، مطالعه شیوه ساخت و اجرای تزئینات بر جسته و زراندود در سفال مینایی دوران میانی اسلامی در ایران. هنرهای صناعی ایران، سال اول، شماره 1. 1-20
26. پرستو نعیمی، ابوالقاسم دولتی، سید محمد امین امامی، 1397، مطالعه ریز ساختار آثار دوفلزی مکشوفه از محوطه باستانی زیویه، نشریه مهندسی متالورژی ایران، دوره 20، شماره 3، 219-231.

27. سید محمدامین امامی، یاسین صدقی، اکبر عابدی، نصیر اسکندری، 1399، سفال باستانی و باستان سنجی؛ شناخت تکنولوژی ساخت سفالهای فرهنگ علیاباد در تپه دهنو شهاد، جنوبشرق ایران (3250-3750 پ.م)، نشریه علم و مهندسی سرامیک، دوره 9، شماره 3، ص 37-59.
28. سید محمد امین امامی، مرتضی حصاری، 1399، بررسی گلنوشته‌های آغاز اسلامی در محوطه سفالین بر اساس مطالعات میکروسکوپ الکترونی و میکروسکوپ نیروی اتمی، پژوهه باستان سنجی، دوره 6، شماره 1، ص 33-46.
29. نفیسه حسینیان یگانه، آرمان شیشه‌گر، سید محمدامین امامی، صمد نژاد ابراهیمی، 1399، بررسی رده‌بندی طبیعت در نهشته‌های گیاهی یک انبیق شیشه‌ای هزارساله، به روش کروماتوگرافی گازی کوپل شده با طیف سنج جرمی MS-GC، دوره 6، شماره 1، ص 119-135.
30. سعید امیرحاجلو، سید محمدامین امامی، داود آقاعلی گل، رضا ریاحیان گهرتی، 1399، معرفی، طبقه بندی و ساختارشناسی کاشی‌های زرین فام یافت شده از قلعه دختر شهر کرمان، دوره 6، شماره 2
31. سید محمد امین امامی، میثم شهسواری، 1399، محوطه کهیرو II: شواهدی از فازگری مس در سرشاخه‌های هلیل‌رود در اوایل هزاره چهارم پیش از میلاد، دوره 6، شماره 2.
32. پریسا رحمانی کرکوندی، اکبر عابدی، سید محمدامین امامی، مهدی رازانی، 1399، مطالعات باستان سنجی سرامیک‌ها و سفال‌های عصر مفرغ تپه سیلوه پیرانشهر، شمال غرب ایران، دوره 9، شماره 2، ص ۹۹-۱۲۰.
33. مهدی رازانی، شاهرخ شهرسبزی، مسعود باقرزاده کثیری، سید محمد امین امامی، 1398، ساختارشناسی سنگ‌های خاکستری سیاه پایه‌ستون‌های کاخ هخامنشی چرخاب برازجان، مطالعات باستان شناسی پارسه، سال 4، شماره 13، ص 71-82
34. حمید فدایی، سید محمدامین امامی، ایوب کریمی‌جشنی، 1398، بازنگری در روش‌شناسی پایش محیطی آلودگی هوا در محوطه‌های میراث صخره‌ای، سال 3 شماره 9، ص ۹۳-۱۰۷.
35. سید محمد امین امامی، 1396، مروری بر فلزگری‌گهن مس (آرکتو متالورژی مس) در منطقه هلیل‌رود (براساس داده‌های حاصل از پتروگرافی و ژئوشیمی سرباره‌های ذوب‌فلز باستانی)، سال 1، شماره 1، ص ۹۹-۱۱۱.
36. حسینی کشتان رضا، امامی محمد امین، زمانیفرد علی. نقش پارامترهای شیمیایی و کیفیت بافت خاک در فرسایش خشت محوطه تاریخی بلقیس. نشریه علمی مرمت و معماری ایران. ۱۳۹۸؛ ۲(۱۸): ۹۱-۱۱۰.

## Publications in other journals (Persian & English)

8. Emami, M., (2016), Iran, the land of archaeometallurgical surprises. The Crucible, issue 93, winter 2016, Pp: 3
7. Emami, M.A., (2005), “*Experimental and Petrological Studies of Ancient Slags to define the paragenesis of ore deposits.*”, Year Book of Iranian Mining Engineer. Vol. 1. pp. 63-78. (in Persian)
6. Emami M. A., (2005), „*Review on archaeometallurgy of copper around Hallil Roud Rabor – Baft zone*“, Cheshmeh, vol. 5. Pp. 40-44 (in Persian)
5. Emami, M. A., (2004), „*Review on quarry methods for stone cutting as well as mining in Fars*“, Cheshmeh, vol. 6. Pp. 8-16 (in Persian)

4. Emami, M.A., (2004), “*The usage of microsonds in interpretation and characterization of archaeological fragments. Case study on ancient metallurgical slags*”; Maremat, Journal of Conservation and Restoration. Art-University, Isfahan, vol. 1. Pp. 22-30 (in Persian)
3. Emami, M.A., (2004), “*Thermodynamic and the importance of phase equilibria in ancient ceramics and archaeometallurgy*”. Maremat, Journal of Conservation and Restoration. Art-University, Isfahan, vol. 2. Pp. 6-12 (in Persian)
2. Emami M.A., (2003), “*Mineralogical and metallurgical interpretation about ancient copper slags from Toroud, central Iran*”; Gozaraesh-e Mah, Iran Cultural Heritage Organization, vol. 29. Pp. 265-272 (in Persian)
1. Emami, M.A., (2002), “*Archaeometallurgical investigation in central Iran*”. Gozaraesh-e Mah, Iran Cultural Heritage Organization, vol. 25. Pp. 253-260 (in Persian)

## **Book's Chapter**

1. Emami, M. A., Volkmar, J. & Trettin, R., (2011), Characterization of Ancient Ceramic Matrices with High Resolution Microscopy Methods in Laser Scanning, Theory and Applications (Chapter 15), Austria, InTech Publication. ISBN: 978-953-307-205-0.
2. Oudbashi, O., Emami, M. A., Davami, P., (2012), Bronze in Archaeology: A Review of the Archaeometallurgy of Bronze in Ancient Iran in Copper Alloy (Chapter 7), InTech Publication, ISBN: 978-953-308-35-6
3. Emami, M., (2014), Translation to Farsi, Das achämenidenzeitliche Lykien, Thomas Marksteiner in Pierre Briant & Remy Boucharlat „L'archaeologie de l'empire achemenide: nouvelles recherches“, (GDR 2538 CNRS, 2003), Ouvrage publie avec le concours du College de France, ISBN 2-7018-0195-8, De Boccard 2005.
4. Emami, M., (2016), Geological setting in Bolaghi Valley and geoarchaeological observations on the site TB76, in “Tang-e Bolaghi (Fars), Sites TB76 and TB77: Rural settlements of the Achaemenids and post Achaemenid periods”, edited by; Askari Chaverdi, A. & Callieri, P., BAR International Series 2799
5. Emami, M., (2017), Analysis of Some Copper Alloy Artefacts from New Excavations in Parsa (Persepolis). In FROM PALACE TO TOWN, Report on the multidisciplinary project carried out by the Iranian-Italian Joint Archaeological Mission on the Persepolis Terrace, Fars, Iran, (2008-2013), Science for Archaeology edited by Alireza Askari Chaverdi and Pierfrancesco Callieri with contributions by Maria Letizia Amadori, Sara Barcelli, Mohammadamin Emami, Paola Fermo, Marco Galuppi, Marisa Laurenzi Tabasso, Paolo Pallante, Giuliana Raffaelli, Stefano Ridolfi, Thomas Van de Welde Roma 2017. Pp 38-45.
6. Amadori, M.L., Emami, M., Pallante, P. and Fermo, P., (2017), Micro-invasive Investigations on Bricks and Glazed Bricks from Tol-e Ajori. In FROM PALACE TO TOWN, Report on the multidisciplinary project carried out by the Iranian-Italian Joint Archaeological Mission on the Persepolis Terrace, Fars, Iran, (2008-2013), Science for Archaeology edited by Alireza Askari Chaverdi and Pierfrancesco Callieri with contributions by Maria Letizia Amadori, Sara Barcelli,

Mohammadamin Emami, Paola Fermo, Marco Galuppi, Marisa Laurenzi Tabasso, Paolo Pallante, Giuliana Raffaelli, Stefano Ridolfi, Thomas Van de Welde Roma 2017. Pp 59-110.

## Conferenc Proceedings

74. Mohammadamin Emami, Amir Sayid Hassan Rozatian, Reinhard Trettin, Synchrotron Radiation via High Pressure Micro-diffraction Beamline for characterization of crystallinity and firing technology in ancient ceramic matrices, 16<sup>th</sup> SESAME users meeting 15-16 Dec. 2018, Amman, Jordan.
73. Emami, M., Rozatian, A., Hadian Dehkordi, M., Pritzel, Ch., Trettin, R., (2018), A message from the past; Material characterization of the primary glass workshops in 3rd Millennium BC in Iran. 10<sup>th</sup> ILSF synchrotron users meeting, May 13-14 2018, Qazvin, Iran.
72. M. Emami, Y. Sedghi, (2018), Set on the Fire over 4th millennium BC: Preliminary Multi-Analytical Approach to the Ceramic Production Technology in Tal-i Eblis, The 11th International Congress on the Archaeology of the Ancient Near East, Munich, Germany
71. Mohammadamin Emami, Asieh Salehi, Nader Soleimani, (2018), Multi-analytical studies on the manufacturing process of Neolithic ceramics from Jiroft (late 7th - early 6th Millennium BC), Iran, sciencesconf.org:uispp 2018:182755, Paris, France
70. Emami, M., Khanjari, R., Naghavi, S., (2017), Celadons: multianalytical approach for characterizing of celadon ceramics., UISPP Archaeometry of ancient artifacts, materials and their technologies, Pavia, Italy
69. Emami, M., Zakavi, S., Modaberi, S., (2017), Mineralogical- chemical investigations on the copper ingots from Haft Tappeh (2th millennium BC), Iran, Oeztunali 2017 International Symposium on Geoarchaeology, Ancient Mining and Metallurgy, 1-2 Nov., Istanbul, Turkey
68. Bayat Nejad, F. & Emami, M., (2017), An Investigation on some Ancient Glass Fragments from the City Istakhr by Using non-Destructive Methods, 14<sup>th</sup> European Meeting on Ancient Ceramic, 6-9 Sep. Bordeaux, France.
67. Yazdani, M. Ahmadi, H., Emami, M., Lamehi Rachti, M., Agha-Aligol, D., Khosravi Bizhaem, F., (2017), Relief and Shiny: Technological study of applied relief and gilding technique on mina'i ware from Rayy and Alamut of Islamic medieval in Iran. 14<sup>th</sup> European Meeting on Ancient Ceramic, 6-9 Sep. Bordeaux, France.
66. Emami, M. & Emami, S. N., (2017), Statistical modelling of earthen ware ceramic manufacturing process based on longitudinal dataset and mineralogical analysis, 14<sup>th</sup> European Meeting on Ancient Ceramic, 6-9 Sep. Bordeaux, France.
65. Emami, M. (2017), Metallurgy in 5th millennium BC; The importance of metal working in Dalma tradition in west of. The Ninth International Conference on the Beginings of the Use of Metals and Alloys (BUMA-IX), edited by Jea-Young Choi and Jank-Sik Park. Busan, South Korea.
64. Emami, M. and Hozhabralsadati, M., (2017), New Insights into the archaeometallurgy of copper from Jiroft Civilization (3rd millennium BC) in IranNew Insights into the

archaeometallurgy of copper from Jiroft Civilization (3<sup>rd</sup> millennium BC) in Iran. The Ninth International Conference on the Beginings of the Use of Metals and Alloys (BUMA-IX), edited by Jea-Young Choi and Jank-Sik Park. Busan, South Korea.

63. Karamad, Z. and Emami, M., (2016), Historical Research Studies on Persian Crucible Steel from Chahak, Iran. ICOM-CC-METAL 2016, New Delhi, India.

62. Emami, M., (2016), Crystallographic interpretation of mineral decompositions via Rietveld refinement strategy for clustering ancient ceramics. 30th European Crystallographic Meeting, 28th August - 1st September 2016, Congress Center, Basel, Switzerland.

61. Ghobadi, A., Emami, M. and Asslani, H., (2016), Microorganisms influence the mechanisms of the rocks erosion at Tang-e Chgan, Joint 44th Annual AIC Meeting (CAC-ACCR's 42nd Annual Conference) in Montreal. American Institut for Conservation of Historic and Artistic Works, Montreal, Canada.

60. Ghobadi, A., Emami, M. and Asslani, H., (2016), Analysis of rock deterioration in Nagsh-e Rustam relief by geospatial technology, Joint 44th Annual AIC Meeting (CAC-ACCR's 42nd Annual Conference) in Montreal. American Institut for Conservation of Historic and Artistic Works, Montreal, Canada.

59. Emami, M., Jafari, J., (2016), Archaeometallurgical studies on Arsenic Bronze from Lama (2<sup>nd</sup> Millennium BC), The Irano-German International Symposium on Archaeometry, 1-3 Nov., Iran, Tabriz

58. Yazdani, M., Emami, M., (2016), Research on Mina'i Bowl based on inscribed sample, ISF Conference, Transfer of Knowledge among Iran, France and Germany, Isfahan, Iran

57. Elikai, S., Emami, M., Garavand, M., (2016), Study of Ancient metalworking based on metal smelting slags discovered in Botkhaneh Cave region of Southern Kuhdasht County, 2th congress on Material Science in Conservation, Tehran, Iran

56. Melika Yazdani, Seyed Mohammad Amin Emami, Hossein Ahmadi, Mohammad Lamei Rashti, Davood Aligol, Mahnaz Abdollah Khan Gorji, (2016), 2th congress on Material Science in Conservation, Tehran, Iran

55. Emami, M., (2016), Preliminary archaeometallurgical studies on Bronze objects from "Lama" (2th Millennium BC), Iran, Archaeometry of ancient artifacts, materials and their technologies', Miskolc, Hungry

54. Karamad, Z., Emami, M., (2016), Research Studies on Persian Crucible Steel from Chahak, Iran, Metall 2016, Dehli, India

53. Emami, M., Parvaresh, A., (2016), Mineralogisch-petrochemische Untersuchungen an Kupfer Schlacken aus Sheikh-Ali ophiolite Kupfer Lagerstaetten. Kerman. Iran, Archaeometrie und Denkmalpflege, Goettingen, Germany

52. Emami, M., (2016), Crystallographic interpretation of mineral decompositions via Rietveld refinement strategy for clustering ancient ceramics, 30th European Crystallographic Meeting, 28 August – 1 September 2016, Basel, Switzerland

51. Maria Letizia Amadori, Gianluca Poldi, Alireza Askari Chaverdi, Pierfrancesco Callieri Mohammadamin Emami, (2016), Colour and materials of the new monumental gate excavated in the area of Persepolis (Fars, Iran), 41st International Symposium on Archaeometry (Kalamata 15-21 May), ISA2016, Athens, Greece
50. Emami, M., (2016), Cuprum, Quo Vadis: New Insight Considering the Migration of Copper Metallurgy along “Halil” River Basin in Kerman, south central Iranian desert, 41st International Symposium on Archaeometry (Kalamata 15-21 May), ISA2016, Athens, Greece
49. Emami, M. Hessari, M. Pritzel, Ch., Trettin R., (2015), Arsenic Bronze in antiquity; Mineralogical- chemical approach on copper objects found from Tappeh Sofalin (4th millennium BC), Iran, 12th International Congress for Applied Mineralogy, Istanbul, Turkey
48. Nekouei-Zahraei, S. Emami, M., (2015), Microscopic interpretation and chemical composition of the Sassanian glass samples from “Tomb Pargan”, Iran, European Meeting on Ancient Ceramic, Athens, Greece
47. Yazdani, M. Emami, M. Ahmadi, H. Abdollahkhan Gorji, M. Khosravibizhaem, F., (2015), A new look at the Mina'i glazed ceramic from Rayy, Iran, based on spectroscopic analysis, European Meeting on Ancient Ceramic, Athens, Greece
46. Emami, M. Noghani, S., (2015), Microscopic investigation into the heat gradient on crucibles from Chahak smelting site, Iran, European Meeting on Ancient Ceramic, Athens, Greece
45. Emami, M. Khanjari, R. Naghavi, S., (2015), Material characteristics of Islamic Celadon from the ancient port of Harireh, Kish Island, Persian Gulf, European Meeting on Ancient Ceramic, Athens, Greece
44. Emami, M., (2015), Finally, a Slag-Heap; new insight into the archaeometallurgy of iron smelting technology during the Achaemenid Empire in "Persepolis", Iran (550–330 BC) Jahrestagung Archaeometry und Denkmalpflege, Mainz, Germany
43. Oudbashi, O., Emami, M. and Davami, P., (2015), Archaeometallurgy in Luristan Region: Investigation on Chemical and Structural Aspects of Bronze Artifacts from Sangtarashan Archaeological Site of Khorramabad (First Millennium B.C.), 4<sup>th</sup> joint Conference of metallurgical engineering society and Iranian foundrymen's society. Tehran, Iran.
42. Razani, M., Emami, M., Baghbanan, A., Sustainable Conservation of Rock-hewn Architectures in Kandovan Historical Village, 2th national conference on architecture, conservation and environment, 2014, Hamedan, Iran
41. Emami, M., Technique in 5 millennium BC from Tappeh Zaghe, Iran; Application of High resolution Microscopy Methods on characterization of partial smelting in ancient ceramics, Europaepische Vereinigung zur Foerderung der Experimentellen Archaeologie (EXAR), 3.-4. Okt. 2014, Mayen, Germany
40. International Symposium on Archaeometry, 2014, Losangeles, USA

39. Emami, M., Shokrgozar, L., Multi-analytical approach for characterizing the unique floor-glyph in Goor city from Firouzabad, Iran, Fourth Balkan Symposium on Archaeometry 27th – 30th Sep. 2014, Nessebar, Bulgaria
38. Emami, M., Wege zur Nachhaltigkeit – Die internationale Zukunftswerkstatt Modul 1/2014: Projekte für nachhaltige Entwicklung konzipieren 04. – 13. Sep., 2014, Siegen, Germany,
37. Emami, M., Sakali, Y., Pritzel, Ch., & Trettin, R., AFM- and PFM application on the phase transition via partial sintering process in ancient ceramic matrices. The Tenth International Conference of Laser in the Conservation of Artworks LACONA X, 9<sup>th</sup> – 13<sup>th</sup> June, 2014, Sharjah, United Arab Emirates,
36. Nekouei, S., Emami, M., & Ahmadi, H., High resolution microscopy methods for investigation of iridescence effect on ancient glasses, InterM, International Multidisciplinary Microscopy Congres, Okt. 10-13, 2013, Antalya, Turkey, (Abstarct)
35. Emami, M., Petro-chemical investigation on crucible based on microstructural properties, InterM, International Multidisciplinary Microscopy Congres, 10-13 Okt., 2013,, Antalya, Turkey, (Abstarct)
34. Emami, M., Trettin, R., Characterization of partial smelting in earthenware ceramics through high resolution microscopy methods. Microscopy Conference, 25-30 August 2013, Regensburg, Germany, , pp, 397-398.
33. Emami, M., Iron production in Chahak south-central of Iran; An archaeometallurgical approach, Beginning and Use of Metals and Alloy (BUMA), 10-15 Sep. 2013, Nara, Japan, (Abstract)
32. Noghani S., Emami M., The effect of mineralogical changes on structure of ancient potteries (Case Study: Clinky Pottery From Parthian Period, Iran), European Meeting on Ancient Ceramic, 2013, Padova-Italy,
31. Shalikarian M., Emami M., A combined multianalytical approach for investigation of grey pottery manufacturing process during 4<sup>th</sup> millennium BC from north Iran, European Meeting on Ancient Ceramic, 2013, Padova-Italy,
30. Emami, M., Bigham, M., Mechanism of Corrosion due to unalloyed copper inclusion in ancient bronzes, 26<sup>th</sup> Surface Modification Technology, 2012, Liyon-France,
29. Emami, M. A., Trettin, R., High tech in 5100BC: multianalytical approach for characterization of ceramics from Tappeh-Zaghe, Iran. 26<sup>th</sup> Surface Modification Technology, 2012, Liyon-France,
29. Emami, M., Talaee, H., Trettin, R., Interpretation of ceramic's manufacturing process in Tappeh-Zaghe (5100-4900 BC-Iran) according to mineralogical- chemical investigation. Ancient Pottery, 2012, Spain,
28. Mohammadamin Emami, Zahra Karamad, Chemical- mineralogical studies on iron crucibles from Chahak, Iran, International Symposium on Archaeometry, 2012, Lueven, Belgium.

27. Mohammadamin Emami, Reinhard Trettin and Hassan Talaee , QXRD, ESEM and DSC applied to the study of pottery manufacturing process from Tappeh Zaghe (5100-4900 BC), Iran, International Symposium on Archaeometry, 2012, Lueven, Belgium.
26. Emami, M., QXRD, XRF and Optical Microscopy Applied to Characterization and Provenance of Ancient Ceramics from Haft Teppeh (1500 – 1150 BC), Southwest Iran. International Conference on The Use of X-ray (and related) Techniques in Arts and Cultural Heritage, December 7–8, 2011, Main Auditorium, AUS Sharjah, United Arab Emirates
25. Emami, M. A., Omid Oudbashi, O., Analysis of some Copper Alloy Artefacts from new Excavations in Parsa (Persepolis), XVII<sup>th</sup> International Congress of Ancient Bronzes, 2011, Izmir, Turkey.
24. Emami, M. A., Omid Oudbashi, O., Davami, P., The *Luristan Bronzes in Sangtarashan: Bronze Technology in Western Iran in the First Millennium BC*”, XVII<sup>th</sup> International Congress of Ancient Bronzes, 2011, Izmir, Turkey.
23. Emami, M. A., Mineralogica chemical investigation on phase transition in the ancient copper slag”, 18<sup>th</sup> Iranian Crystallography and Mineralogy Sumposium, 2010, Tabriz, Iran
22. Razani, M., Emami, M. A., Majidzadeh, Y. & Alidadi, N., Archaeometrical Investigations on the Chlorite Stone belong to Jiroft Civilization, Material Research Society, Fall Meeting, 2010, Boston, USA
21. Emami, M. A., Characterization of ancient ceramic matrices on the image of the recrystallization during sintering”, SEM and microanalysis in the study of historical technology, materials and conservation, 2010, London, UK
20. Emami, M. A. & Trettin, R., Mineralogical-chemical interpretation of ancient ceramics from Haft-Tappeh in SW-Iran bu high resolution microscopy methods (AFM, PFM, SEM), 17<sup>th</sup> International Microscopy Congress, 2010, Rio de janero, Brazil
19. Emami, M. A., Application of QXRD and high resolution microscopy methods used for characterization of ancient ceramic matrices from 1300 B.C. (SW-Iran), 38<sup>th</sup> International Sumposium on Atchaeometry, 2010, Florida, USA
18. Noghani, S. & Emami, M. A., Secondary calcite in texture of pottery from Persepolic, Fars, Iran”, 38<sup>th</sup> International Sumposium on Atchaeometry, 2010, Florida, USA
17. Emami, M. A., Mineralogical-chemical investigation on explaining of diagnosis of Alkali-Silica Reaction in ancient mortars from central Iran”, 2th Historical Mortars Conference, 2010, Prague, Czech Republic
16. emami, M. A., Vatankhah, Gh. & Hoseinpour, A., Multidisciplinary investigation on the gypsum mortars characterization from Bishapour complex (241-272 A.C.) Iran, 2th Historical Mortars Conference, 2010, Prague, Czech Republic

15. Emami, M. A., The application of Rietveld refining methods and AFM on hydrothermal reactivity of polymetallic ore sources based on archaeometallurgical finds in Meymand cave dwelling village, Kerman, central Iran, 7<sup>th</sup> International Conference on the beginning of the use of metals and alloys, 2009, Bangalore, India
14. Emami, M. A., Kowald, T. & Trettin, R., Mineralogical and chemical investigation on the recrystallization process during sintering in ancient ceramic matrices, 22<sup>th</sup> International Conference on Surface Modification Technology, 2008, Trollhaettan, Swed
13. Emami, S.M.A., Oudbashi, O., Comparative analysis of polymetallic ore sources with respect to archaeometallurgical melting process in Lasoleyman Area closed by Meymand cave dwelling village, Kerman, central Iran, International Conference AMITEM 2008, Ancient mining in Turkey and the Eastern Mediterranean, June 15-22 2008, Ankara, Turkey. , pp. 351-370
12. Emami, S.M.A., Volkmar, J. & Trettin, R., Quantitative Characterization of damaging mechanisms of ancient ceramics by application of QXRD, polarization-, confocal-, nearfield microscopy and pulsed force mode AFM. Year Book of Surface Modification Technology, 21<sup>st</sup> International Conference on Surface Modification Technologies, 2007, Paris, France, pp.109-118
11. Pourjabbar, A. & Emami, M.A., Mineralogical and Geochemical Investigation to Ancient Smelting Slag from Khouni Area, Central Iran. Archaeometallurgy in Europe, pp. 57-69, 2007, Gardo & Aquileia, Italy
10. Oudbashi, O., Emami, M.A., Bakhshandefar, H., Primary Study on Corrosion Procedure on Metal Objects from haft Tappeh ancient site, southwest Iran, Archaeometallurgy in Europe, pp. 198-210, 2007, Gardo & Aquileia, Italy
9. Emami, M. A., Ritveld refining Methods and its application for characterization of physical properties of ancient ceramics, 8<sup>th</sup> Biennial Conference on Conservation and Restoration of museum objects & architectural decoration, 2007, Teheran, Iran.
8. Emami, M.A., Phase Transitions Induced by Solid Solution in the Pyroxene- Rich Ancient Copper Slags from Toroud, Iran; Proceeding Actes ISA 2006, 36<sup>th</sup> International Symposium on Archaeometry, 2006, Quebec City, Canada, vol. 1, pp. 413-421.
7. Oudbashi, O., Emami, M. A. & Bakhshandehfard, H., Primary Archaeometallurgical Studies on Mineralogical Structure and Chemical Composition of Ancient Metal Objects and Slag from Haft Tepe, Southwest Iran, Khuzestan (Middle Elamite Period); Proceeding Actes ISA 2006, 36<sup>th</sup> International Symposium on Archaeometry, 2006, Quebec City, Canada, vol. 1, pp. 407-412.
6. Emami, M.A., Experimental and Petrological Studies of Ancient Cupper Slags from Toroud, Central Iran; Archaeometry Conference, 15<sup>th</sup> Mai – 22<sup>th</sup> Mai, 2005, Beijing, China
5. Emami, M.A., Some new Excavations ont Archaeometallurgy and Ancient Mining at the Achamenian's Period in Takht-e-Djamshid, Shiraz, Metallurgy Conference - a touchstone for cross-cultural interaction, 28th April - 30th April 2005, Department of Conservation and Documentation and Science, British Museum, London, UK

4. Emami, M.A., Oxidation or Corrosion!, 7<sup>th</sup> Biennial Conference on Conservation and Restoration of Museum Objects & Architectural Decoration. 5-7 December 2005. Research Center for Conservation and cultural reliques, 2005, Teheran, Iran.
3. Hellebrand, E., Snow, J., Emami M. A. & Dick, H. J. B., Using breccia-hosted spinels of abyssal peridotites to obtain a representative local mantle composition, American Geophysical Union, 2003, California, USA
2. Emami, S.M.A. & Golabi, N., Interpretation of the structure of White Bronze, First International Congress of archaeometallurgy, 1998, Teheran, Iran.
1. Emami, M.A., Geoarchaeology of Chogha – Zanbil Temple. Case study on the satiability of this building; First National Meeting of Conservation & Restoration, RCCCR magazine vol,1., 1995, Teheran, Iran.

## **Chairmanship in national & International Conferences**

1. 32<sup>nd</sup> National & the 1<sup>st</sup> International Geosciences Congress, (16<sup>th</sup> – 19<sup>th</sup>) Teheran, Iran, As Scientific Chair in Earth Science and New Fields
2. The XVII th International Congress of Ancient Bronzes, May 20-26 Izmir, Turkey
3. European Meeting on Ancient Ceramic, Athens, Greece
4. Scientific Committee in 2th congress on Material Science in Conservation, Tehran, Iran, 2016
5. Scientific Committee in 2th young archaeological scientist, Tehran, Iran, 2016

## **Referee for Evaluating Exam Process (Graduate & PhD)**

1. PhD examiner in excellence research in Art, 1395
2. National examination program, graduate exam, (Sanjesh) 1396
3. National examination program, graduate exam, (Sanjesh) 1395

## **References**

### **1. Univ.- Prof. Dr. habil. Rainhard Trettin**

Universität Siegen, Naturwissenschaftlich-Technische Fakultät, Department Chemie – Biologie, Institut für Bau- und Werkstoffchemie, Paul-Bonatz-Str. 9-11, 57068 Siegen, E-Mail: [trettin@chemie.uni-siegen.de](mailto:trettin@chemie.uni-siegen.de)

### **2 .Univ.- Prof. Dr. Rémy Chapoulié**

University Bordeaux Montaigne, IRAMAT-CRP2A, department of applied physic in archaeometry, UMR 5060 & Archeovision UMS 3657  
Bureau IRAMAT ACH072, Domaine universitaire, F-33607 PESSAC Cedex  
[www.u-bordeaux-montaigne.fr](http://www.u-bordeaux-montaigne.fr)  
[chapouli@u-bordeaux-montaigne.fr](mailto:chapouli@u-bordeaux-montaigne.fr)

### **3. Univ.- Prof. Dr. Eberhard W. Sauer**

Professor of Roman Archaeology at the University of Edinburgh  
[eberhard.sauer@ed.ac.uk](mailto:eberhard.sauer@ed.ac.uk)