

**EUROPEAN
CURRICULUM VITAE
FORMAT**



PERSONAL INFORMATION

Name

IHSAN MURAT KUSOGLU

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Nationality

Turkish

Date of birth

03.04.1981

WORK EXPERIENCE

- Dates (from – to)
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities

Feb 2019 – going on

Duisburg-Essen University, Universitaetsstrasse 2, D-45141, Essen

Academic

Post. Doc./ Research Assistant

- PostDoc in DFG SPP2122 Coordination Project,
- Researches on developing nanoparticle additivated powder feedstocks for Additive Manufacturing
- A wide-scale Inter Laboratory Study Coordinator in SPP2122 project

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June 2016 – Jan 2019

Dokuz Eylül University, Torbali Vocational School, 35860, Torbali, Izmir, TURKEY

Academic

Assoc. Prof. Dr./ Head of Welding Technology Program

- Founder of Welding Technology Program
- Setting Welding Technology Workshop for oxy-gas, Arc, MIG-MAG, TIG welding and plasma cutting
- Setting educational program for 30 students for each year

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 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities

March 2014 – Jan 2019

Archaeometry App. and Research Center

Dokuz Eylül University, Torbali Vocational School, 35860, Torbali, Izmir, TURKEY

Academic

Founder Director

- Characterization of Ancient Materials such as natural stones, metals, ceramics and glasses
- Setting multidisciplinary projects including Archaeology, Arthitecture, Material Engineering and Geology Engineering for the Excavation Sites around Izmir

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- Main activities and responsibilities

- Dates (from – to)
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
 - Title of qualification awarded
 - Level in national classification (if appropriate)

EDUCATION AND TRAINING

- Dates (from – to)

- Non-destructive investigations by p-XRF

September 2011 – June 2016

Dokuz Eylül University, Torbalı Vocational School, 35860, Torbalı, Izmir, TURKEY

Academic

Assistant Prof. Dr.

- Developing Industrial Glass and Ceramic Program
- Recycling of marble waste to synthesize wollastonite for ceramic and glass applications
- Microwave synthesis of oxide and non-oxide ceramic phases
- Coordination of International Affairs of Torbalı Vocational School

October 2002 – September 2011

Dokuz Eylül University, Dept. of Metallurgical and Materials Eng., 35160, Izmir, TURKEY

Academic

Research Assistant

- Material characterization
- Heat treatment of materials
- Microwave treatment of ceramic and metal powder metallurgy compacts
- Microwave synthesis of oxide and non-oxide ceramic phases

April 2005 - October 2005

TU Freiberg, Dept. of Ceramic, Glass and Construction Materials, Freiberg, Germany

Academic

Research Assistant-Erasmus student

- Microwave and Infrared effect on drying of ceramic materials

April 2008 - October 2008

Bayreuth University, Chair of Material Processing, Bayreuth, Germany

Academic

- Microwave sintering of iron based PM compacts

2013 for 3 months

Oxford University, Archaeology Lab.

Ancient material characterization techniques

2004-2011 Dokuz Eylül University

- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
 - Title of qualification awarded
- Level in national classification (if appropriate)

EDUCATION AND TRAINING

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- Principal subjects/occupational skills covered
 - Title of qualification awarded
- Level in national classification

RESEARCH FIELDS

since 2002

PERSONAL SKILLS AND COMPETENCES

Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas.

MOTHER TONGUE

OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills

SOCIAL SKILLS AND COMPETENCES

Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.

ORGANISATIONAL SKILLS AND COMPETENCES

Coordination and administration of

Dokuz Eylül University, Dept. of Metallurgical and Materials Eng.

Conventional and microwave sintering of iron based PM compacts

Microwave sintering of in-situ mullite, cordierite and ZrO₂-mullite composites
Ph.D.

2002 – 2004

Dokuz Eylül University, Dept. of Metallurgical and Materials Eng.

Production of advanced ceramics

M.Sci.

- Powder Metallurgy for metals and ceramics inc. compaction, sintering and characterization

- Heat treatment of metals

- Microwave and induction sintering of PM compacts

- Material characterization by SEM, XRD, DTA-TGA, FT-IR, p-XRF, optical microscopes

- Archaeometry for ancient metals, ceramics, glasses and natural stones

Turkish

English	German
EXCELENT	GOOD (B1)
VERY GOOD	GOOD (B1)
VERY GOOD	GOOD (B1)

- good ability to adapt to multicultural research Works
- international research experiences
- good ability to find practical solutions for well defined problems
- good motivation to reach certain aim
- succesful in team works

- Research, development and project management assistance experience in 3 projects of Ministry of Science, Industry and Technology and The Scientific and Technological Research council of Turkey

people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.

TECHNICAL SKILLS

AND COMPETENCES

With computers, specific kinds of equipment, machinery, etc.

- **Using material characterization techniques such as SEM, XRD, XRF, DTA-TGA, BET, optic microscopy, mechanical test machines**
- **Using conventional and microwave furnaces for heat treatment of materials**
- **Metal and polymer powder feedstocks formulations for Laser Powder Bed Fusion Process**

OTHER SKILLS

AND COMPETENCES

Competences not mentioned above.

- **photography**
- **free and scuba diving**
- **football, basketball, table tennis**
- **playing chess**

DRIVING LICENCE(S)

Category B

1. **Ihsan Murat Kusoglu**, Florian Huber, Carlos Doñate-Buendía, Anna Rosa Ziefuss, Bilal Gökce, Jan T. Sehr, Arno Kwade, Michael Schmidt, Stephan Barcikowski, Nanoparticle Additivation Effects on Laser Powder Bed Fusion of Metals and Polymers—A Theoretical Concept for an Inter-Laboratory Study Design All Along the Process Chain, Including Research Data Management, *Materials* 2021, 14(17), 4892; <https://doi.org/10.3390/ma14174892>.
2. C. Doñate-Buendía, P. Kürsteiner, F. Stern, M.B. Wilms, R. Streubel, **I.M. Kusoglu**, J. Tenkamp, E. Bruder, N. Pirch, S. Barcikowski, K. Durst, J.H. Schleifenbaum, F. Walther, B. Gault, B. Gökce, Microstructure formation and mechanical properties of ODS steels built by laser additive manufacturing of nanoparticle coated iron-chromium powders, *Acta Materialia*, 2021, 206, 116566, <https://doi.org/10.1016/j.actamat.2020.116566>.
3. B.S. Akdemir, **I.M. Kusoglu**, Effect of Curing Conditions and BaTiO₃ Nanoparticle Addition on Dielectric Constant of PDMS for EAP Applications, *Acta Physica Polonica A*, 2021, 139(2), <https://doi.org/10.12693/APhysPolA.139.145>.
4. **I.M. Kusoglu**, F. Huber, C. Doñate-Buendía, A.R. Ziefuss, B. Gökce, J.T. Sehr, A. Kwade, M. Schmidt, S. Barcikowski, Nanoparticle Additivation Effects on Laser Powder Bed Fusion of Metals and Polymers—A Theoretical Concept for an Inter-Laboratory Study Design All Along the Process Chain, Including Research Data Management, *Materials*, 2021, 14, 4892, <https://doi.org/10.3390/ma14174892>.
5. **I.M. Kusoglu**, C. Doñate-Buendía, S. Barcikowski, B. Gökce, Laser Powder Bed Fusion of Polymers: Quantitative Research Direction Indices, *Materials*, 2021, 14(5), 1169; <https://doi.org/10.3390/ma14051169>.
6. **I.M. Kusoglu**, B. Gökce, S. Barcikowski, Research trends in laser powder bed fusion of Al alloys within the last decade, 2020, 36, 101489, <https://doi.org/10.1016/j.addma.2020.101489>.
7. **I.M. Kuşoğlu**, U. Çavdar, A. Altıntaş, The effects of graphene nanoplatelet addition to in situ compacted alumina nanocomposites using ultra-high frequency induction sintering system, *Journal of the Australian Ceramic Society*, 2020, 56 (1), 233-241.
8. **I.M. Kusoglu**, B. Gökce, S. Barcikowski, Use of (nano-) additives in Laser Powder Bed Fusion of Al powder feedstocks: research directions within the last decade, *Procedia CIRP*, 2020, 94, 11-16.
9. A. Altıntaş, U. Çavdar, **I.M. Kuşoğlu**, The Effect of Graphene Nanoplatelets on the Wear Properties of High-Frequency Induction Sintered Alumina Nanocomposites, *Journal of Inorganic and Organometallic Polymers and Materials*, 2019, 29 (3), 667-675.
10. U Çavdar, **İM Kusoglu**, A Altintas, In-situ compaction and sintering of Al₂O₃–GNP nanoparticles using a high-frequency induction system, *Materials Testing*, 2018 60 (7-8), 727-732
- 11- O Ertugrul, R Dalmis, S Akpınar, **İM Kusoglu**, E Celik, "Influence of zircon particle size on conventional and microwave assisted reaction sintering of in-situ mullite–zirconia composites", *Ceramics International*, 2016
- 12- B Felekoğlu, E Gödek, A Ersoy, **İM Kuşoğlu**, "Physical, mechanical and microstructural characterization of basilica plasters and bouleuteron mortars in Smyrna Agora", *Mediterranean Archaeology and Archaeometry*, 2016
- 13- S Akpınar, **İM Kuşoğlu**, O Ertugrul, K Onel, "Microwave assisted sintering of in-situ cordierite foam", *Ceramics International*, 2015
- 14- **İM Kusoglu**, "Microstructural formations during the production of Early Byzantine iron nails from Hadrianoupolis in Paphlagonia (north-central Turkey)", *KOVOVE MATERIALY-METALLIC MATERIALS*, 2015
- 15- U Çavdar, **İM Kusoglu**, "Effects of coil design on induction welding of sintered iron based compacts", *Materials Testing*, 2014
- 16- S. Akpınar, **I.M. Kusoglu**, O. Ertugrul and K. Onel, Silicon carbide particle reinforced mullite composite foams, *Ceramics International*, <http://dx.doi.org/10.1016/j.ceramint.2012.04.067>
- 17- S. Akpınar, **I.M. Kusoglu**, O. Ertugrul, K. Onel, In situ mullite foam fabrication using microwave energy, *Journal of the European Ceramic Society* 32 (2012) 843–848
- 18- Ertuğrul O, Akpınar S, **Kuşoğlu İ**, Önel K, "Microwave assisted reaction sintering of ZrSiO₄/alfa-Al₂O₃ mixtures", *Advances in Science and Technology*, Vol. 63 (2010) pp 91-96, 2010,
- 19- Sami Sayer, Çınar Yeni, **Murat Kuşoğlu**, "Mechanical and microstructural behavior of dissimilar aluminium alloys joined by friction stir welding", *Practical Metallography*, 47/2/96-108/2010, 2010,

- 20- Hakan Cetinel, Erdal Celik, **Murat I. Kusoglu**, "Tribological behavior of Cr₂O₃ coatings as bearing materials", Journal of Materials Processing Technology, 196/1-3/259-265/January 2008, 2008,
- 21- Gürhan Gereli, Yoldaş Seki, **İ. Murat Kuşoğlu**, Kadir Yurdakoç, "Equilibrium and kinetics for the sorption of promethazine hydrochloride onto K10 montmorillonite", Journal of Colloid and Interface Science, 299, 155-162, 2006
- 22- C.Tekmen, M.Toparlı, İ.Ozdemir, **M.Kusoglu**, K.Onel, "High temperature behaviour of H13 steel", Zeitschrift fur Metallkunde, 96/12/1431-1433, 2005,
- 23- **I.M.Kusoglu**, E.Celik, H.Cetinel, I.Ozdemir, O.Demirkurt, K.Onel, "Wear behavior of flame-sprayed Al₂O₃-TiO₂ coating on plain carbon steel substrates", Surface and Coatings Technology, Volume 200/1173-1177/2005

Conference presentations :

- 1- Kuşoğlu İM, Çavdar U, "In-situ Compaction and Sintering of 316L Powders by High Frequency Induction Energy", International Porous and Powder Materials Symposium and Exhibition, 2015, Çeşme, İzmir
- 2- İhsan Murat Kuşoğlu, Duygu Akar Tanrıver, "Classification of oxidized metal artefacts from Smyrna Agora by Portable XRF", 1st International Workshop for Archaeometry in Archaeology and the History of Art, Future Perspectives for the Aegean Region, Torbali, İzmir, 2015
- 3- Burak Felekoğlu, Eren Gödek, İhsan Murat Kuşoğlu, Altuğ Hasözbeke, Akın Ersoy, "First Archaeometric Results of Plasters and Mortars Used in Smyrna Agora", 1st International Workshop for Archaeometry in Archaeology and the History of Art, Future Perspectives for Aegean Region, Torbali, İzmir, 2015
- 4- Elçi H, Öztürk N, Hacımustafaoğlu R, Kuşoğlu İM, Özer S, "Archaeometric Approaches for the Comparison of ancient Natural Stone Used in Metropolis with ancient Quarries Located in İzmir", V. Global Stone, Antalya, 2014
- 5- Çetin Öztürk, İ. Murat Kuşoğlu, Julian Henderson, "Archaeometric Results of Glass Making Technology in Anatolia: from Late Hellenistic to Ottoman Period", IFAS International Fine Arts Symposium 2015, Konya
- 6- Hacımustafaoğlu R, Yağmurlu F, Kuşoğlu İM, Elçi H, "Using p-XRF analysis for the petrochemical properties of ancient stones used in Aphrodisias (Aydın, Turkey)", World Multidisciplinary Earth Sciences Symposium, Prag, 2016
- 7- Kuşoğlu İ, Akpınar İ., Bülbül B., "Gas atomization of NiCrBSi powders", WorlPM2010, ITALY, October 2010, World PM2010 Conference Proceedings - EPMA Volume 2,
- 8- Kuşoğlu İ, Önel K, Willert-Porada M., "Microwave sintering effect on mechanical properties of iron alloys", WorldPM2010, ITALY, October 2010, World PM2010 Conference Proceedings – EPMA Volume 2,
- 9- O. Ertugrul, S. Akpınar, I. M. Kusoglu, K. Onel, "Microwave assisted reaction sintering of ZrSiO₄/alpha-Al₂O₃ mixtures", CIMTEC 2010-12th International Ceramics Congress, ITALY, Haziran 2010, Advances in Science and Technology-Volume 62,
- 10- Akpınar S, Kuşoğlu İ, Altun İ, Önel K, "The effect of Microwave Sintering on in-Situ Synthesis of Cordierite Powder", EuroPM 2009, DENMARK, October 2009, Euro PM2009 Conference Proceedings
- 11- Ertuğrul O, Akpınar S, Kuşoğlu İ, Önel K, "In Situ Synthesis of Mullite Powder from Seydisehir Alumina and Gibbsite via Microwave and Conventional Energy Sources", EuroPM 2009, DANMARK, October 2009, Euro PM2009 Conference Proceedings,
- 12- I. M. Kusoglu, K. Onel, M. Willert-Porada, "Cu dispersion in microwave sintered iron compact", EUROPM2009 congress and exhibition, DANMARK, October 2009,
- 13- Kuşoğlu İ. M., Önel K, Willert-Porada M., "Microwave assisted sintering of Iron powders", 5. International Powder Metallurgy Conference, ANKARA, TURKEY, October 2008,

LECTURER OF

For Assoc. Degree Students in Torbali Vocational School of DEU (2011-2019)

- 1- Material Knowledge
- 2- Material Characterization Techniques
- 3- Ceramic and Glass Raw Materials
- 4- Glass Technology
- 5- Refractory Technology
- 6- Chess

For Graduate Students in Natural Science Institute of DEU (2016-2019)

- 1- Rapid Prototyping
- 2- Miniaturization

For Graduate Students in Social Science Institute of DEU (2017-2019)

- 1- Archaeomaterials and Production Techniques
- 2- Archaeometric Investigations Techniques