



Curriculum Vitae

Personal information	
Name:	Morad Etier
Academic degree:	Doctor of Engineering/Material Science Engineering
Date of birth/(Land):	30.07.1980/ Al-Ramtha (Jordan)
Nationality:	Jordanian
Family status:	Married, 4 children
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Profile	
<p>Through my work as an engineer for several companies in Jordan and the several years experience in the Hashimite University as Instructor, I have the qualification to occupy several positions. My name is Morad Etier, I have Bachelor and Master degree in industrial engineering. Since 2010 I am working as a researcher in the University of Duisburg-Essen in the institute of material science in the field of multiferroic and nanomaterials. Recently, I finished my Ph .d in material science from the faculty of engineering. I can work in different fields of material science engineering especially in synthesizing and properties of multiferroic and magnetoelectric nanomaterials and also in different fields of Industrial Engineering. Recently I am a full time lecturer in the Hashemine unviersity, I teach different courses in industrial engineering department which include design, production, quality control and assurance, work measurements, human resources, project managements and others.</p>	
career	

01/2016- now

Assistant Professor in Hashemite University, Jordan/ Institute of Industrial Engineering

Tasks:

- Teaching different courses in the faculty of Engineering such as CAD/CAM, metrology lab, manufacturing processes lab, material science lab, human factors (ergonomic) lab, operation research, engineering workshops and Manufacturing processes.

Tools:

CAD/CAM, Angular measurements, Temperature measurements, stress-strain measurements, hardness, heat capacity, ultrasonic, milling machine, turning machine, CNC-machine, etc..

09/2010-01/2016

**University of Duisburg Essen-Germany
As a researcher**

Tasks:

- Nanoparticles synthesis
- ceramic processing and sensors application
- Measurement of electrical properties such as (conductivity, leakage, capacitance etc...)
- Measurement of magnetic properties.
- Magnetoelectric measurement techniques.

Daily activities:

- synthesizing nanoparticles using chemical routes.
- Detecting phases using X-ray diffraction
- Measurement of particle sizes using SEM and X-ray
- Powder pressing and ceramics fabricating.
- Measurement of dielectric properties for nanoparticles and ceramic.
- Measurement of magnetic properties using SQUID.
- Measurement of magnetoelectric effect of ceramic.
- Optimizing the synthesis methods.
- Presenting the results and discussing with the team.

Advanced Tools:

SQUID (Superconducting Quantum interference Device), VSM (Vibrating Sample Magnetometry), AFM (Atomic Force Microscopy). Lock-in amplifier, Oscilloscope, SEM (Scanning Electron Microscopy), X-ray Diffraction, Originlab data Analysis.

2008-2010

Instructor in the Hashimite University in Jordan/ Institute of Industrial Engineering

Tasks:

- Teaching different courses in the faculty of Engineering such as, metrology lab, manufacturing processes lab, material science lab, human factors (ergonomic) lab, operation research and engineering workshops.

Tools:

Angular measurements, Temperature measurements, stress-strain measurements, hardness, heat capacity, ultrasonic, milling machine, turning machine, CNC-machine, etc..

2005-2008

Teacher in the Jordanian ministry of education

2003 -2005

Tasks:

-Teaching different courses of (MIS (Management Information's-systems), Statistic, Information systems.)

Tools:

Computer Programs e.g. MS-Excel, MS-Access, etc..

Production and quality engineer in Suktian company, Jordan.

Tasks:

-Manage and control production lines.
-Workers distribution and coordinating the processes.
-Process control by several tools, e.g. flow charts.
-Inventory control
-Quality control.

Daily activities:

- Create schedules for each process.
- Creating production plan for each line
- Controlling efficiency and effectiveness for each production line
- Continuous improvement of the production process
- Performance evaluation of the employees.

Tools:

-Process flow charts, Control charts , Pareto chart, Cause- effect diagram and several quality control statistical tools.

Publications:

<u>1</u>	Atif Alkhazali, Morad Etier , Mohammad Aljarrah, Akram Alsukker and Fathy Salman. An Intensive Study on the AC Impedance Mechanism of (AgPO ₃) _{1-x} (Ag ₂ SO ₄) _x Ionic Glass Systems Under Various Conditions. World Journal of Engineering. Vol. 16 No. 4, pp. 477-486. (2019).
<u>2</u>	Atif Alkhazali, Morad Etier , Mohammad Aljarrah, Hesham Al-Momani and Fathy Salman. Structural, Thermal and Electrical Properties of Ionic Conductors (AgPO ₃) _{1-x} (Ag ₂ SO ₄) _x Glass Systems. International Journal of Microstructure and Materials Properties. Accepted (2019).
<u>3</u>	Doru C. Lupascu, Irina Anusca, Morad Etier , Yanling Gao, Gerhard Lackner, Ahmadshah Nazrabi, Mehmet Sanlialp, Harshkumar Trivedi, Naveed Ul-Haq and Jörg Schröder. Book, Ferroic Functional Material. Expierment, Modeling and simulation. Chapter Semiconductor Effects in Ferroelectrics. pp (97-178) volume 581 (2018).
<u>4</u>	Mohammad A. Alsmirat, Ruba A. Al-Hussien, Wala'a T. Al-Sarayrah, Yaser Jararweh and Morad Etier . Digital video forensics: a comprehensive survey. Int. J. Advanced Intelligence Paradigms. Accepted (2018).
<u>5</u>	Morad Etier , Vladimir V. Shvartsman, Soma Salamon, Yanling Gao, Heiko Wende, and Doru C. Lupascu. The Direct and the Converse Magnetoelectric Effect in Multiferroic Cobalt Ferrite–Barium Titanate Ceramic Composites. J. American Ceramic Society. 1-9

	(2016).
<u>6</u>	Doru C. Lupascu, HeikoWende, Morad Etier , Ahmadshah Nazrabi, Irina Anusca, Harsh Trivedi, Vladimir V. Shvartsman, Joachim Landers, Soma Salamon and Carolin Schmitz-Antoniak. Measuring the Magnetoelectric Effect Across Scales. GAMM Mitteilung. 38, 25-74 (2015) .
<u>7</u>	Morad Etier , Carolin Schmitz-Antoniak, Soma Salamon, Harsh Trivedi, Yanling Gao,Ahmadshah Nazrabi, Joachim Landers, Devendraprakash Gautam, Markus Winterer, Detlef Schmitz, Heiko Wende, Vladimir V. Shvartsman and Doru C. Lupascu. Magnetoelectric coupling on multiferroic cobalt ferrite barium titanate ceramic composites with different connectivity schemes. J. Acta Materialia; 2015 ; 90: 1-9.
<u>8</u>	Morad Etier , Vladimir V. Shvartsman, Yanling Gao, Joachim Landers, Heiko Wende and Doru C. Lupascu : Converse magnetoelectric effect in (0-3) CoFe ₂ O ₄ -BaTiO ₃ (20/80) composite ceramics prepared by the organosol route. J. Ferroelectrics 2013 ; 448: 77-85.
<u>9</u>	Morad Etier , Y. Gao, V. V. Shvartsman, A. Elsukova, J. Landers, H. Wende, and D. C. Lupascu, Cobalt ferrite/Barium titanate core/shell nanoparticles, J. Ferroelectrics 2012 ; 438: 115-122.
<u>10</u>	M. Labusch, Morad Etier , D. C. Lupascu , J. Schröder , M. Keip. Product Properties of a two-phase magneto-electric composite: Synthesis and numerical modelling. J. Comput. Mech, 54:71–83 (2014) .
<u>11</u>	Morad Etier , V. V. Shvartsman, F. Stromberg, J. Landers, H. Wende, and D. C. Lupascu: Synthesis and magnetic properties of cobalt ferrite nanoparticles. Mater. Res. Soc. Symp. Proc. 2012; 1398.
<u>12</u>	Morad Etier , Y. Gao, V. V. Shvartsman, J. Landers, H. Wende, and D. C. Lupascu:Magnetoelectric properties of 0.2CoFe ₂ O ₄ -0.8BaTiO ₃ composite prepared by organic method. ISAF/ECAPD/PFM proceeding. 10.1109/ISAF. 2012 .6297820.

Computer programs knowledge

Term	Program	Duration used (years)	level
Operating systems (Linux, Windows, ..)	Windows	12	++++
Data bank (e.g. SQL, Oracle...)	-	-	-
Softwares (e.g. MS-Office, MS-Projekt,SAP)	MS-Office 2013 MS-Project 2007 Primavera	12 2 -	++++ ++ ++
Networks (e.g. ISDN, Wlan, TCP/IP...)			
CAD- Programs Mechanical construction (e.g. Catia V5, Autocad...) Electroconstruction (e.g. Eplan, ...)	Autocad Inventor 2012	12	+++
Hardware (e.g. CAN-Bus, Microcontroller ..)	-	-	-
FEM / Visualization /Simulation) (e.g. Ansys, WinCC, Matlab)	Ansys	-	+
Programing languages (e.g. JAVA, C/C++, C# ...)	C++	-	+
SPS – Programming (e.g. S5/S7, Beckhoff...)	G code	-	+
Quality management tools	SixSigma	-	++

(e.g. SixSigma, ext. / int. Auditor ..)			
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Languages knowledge

English : Fluent
German: Good
Arabic : Mother language

Education

PH.D degree

09/2010 - 09/2015 **University of Duisburg Essen/ Institute of Material Science**
Degree: Ph.D in *material science engineering*

Major Field: *Multiferroic materials / Magnetoelectric materials*

Title of the thesis: Preparation and magnetoelectric effect of multiferroic cobalt ferrite barium titanate composite.

Master degree

09/2004 - 09/2007 **University of Jordan/ Faculty of Engineering**
Degree: Master in engineering / Industrial Engineering
Major field: Engineering management

Title of the thesis: Studying the ability of Jordanian Manufacturing companies to utilize the principles of continuous improvement (KAIZEN)

Bachelor degree

1999 - 2003 **Hashimite University of Jordan/ Faculty of Engineering**
Degree: Bachelor in Engineering / Industrial Engineering
Major field: Engineering manageme
Title of the graduation project: Establishing and programming data calculations of turning process.

Selected External Courses

02/2007 **ICDL course**

07/2003 **TQM course**

02/2003 **Communication skills**

07/2009 **GRE English**

Selected conferences

20/06/2014 **M. F. Etier, V. V. Shvartsman, Y. Gao, H. Trivedi, J. Landers, S. Salamon, I. Anusca, A. Nazrabi, H. Wende, J. Schröder, M. Labusch, M.-A. Keip and D. C. Lupascu** " Magnetoelectric coupling of biphasic BaTiO₃-CoFe₂O₄ (0-3) particulate composite", **Invited speaker** for Electroceramic conference, 16-20 Juni, 2014, **Bucharest, Romania.**

12/05/2014 **M. F. Etier, V. V. Shvartsman, H. Trivedi, S. Salamon, H. Wende and D. C. Lupascu**

"Direct and converse magnetoelectric coupling in cobalt ferrite-barium titanate (0-3) particulate composite", International symposium of application of piezoelectrics ISAF, 12-16 Mai, 2014, **Penn state, USA**.

25/09/2013

M. Etier, V. V. Shvartsman, Y. Gao , D. Gautam, J. Landers H. Wende and D. C. Lupascu "Multiferroic CoFe₂O₄/ BaTiO₃ from core shell nanoparticles to (0-3) ceramic composite", Euro Intelligent Materials, 25-27 September 2013, **Kiel-Geramany**.

09/03/2013

M. Etier, V. V. Shvartsman, Y. Gao , J. Landers H. Wende and D. C. Lupascu "Multiferroic CoFe₂O₄/ BaTiO₃ with core shell structure nanoparticles" Deutsche Physikalische Gesellschaft (DPG), 9-15 March 2013, **Regensburg-Germany**.

21/11/2012

M. Etier, V. V. Shvartsman, Y. Gao , J. Landers H. Wende and D. C. Lupascu "(Magnetoelectric Properties of BaTiO₃-CoFe₂O₄ (80/20) Composite Prepared by the Organosol Route", Functional Ferroic Material (FFM-2012), 21-22 November 2012 **Dortmund-Germany**.

25/03/2012

Morad F. Etier, Vladimir V. Shvartsman, Frank Stromberg, Joachim Landers, Heiko Wende, Fábio G. Figueiras, Doru C. Lupascu "Synthesis and magnetic properties of cobalt ferrite nanoparticles" DPG (Deutsche Physikalische Gesellschaft), 25-30 March 2012, **Berlin-Germany**.

References

- Prof. Doru Lupascu e-mail: doru.lupascu@uni-due.de (+49-201-183-2737)
- Dr. Vladimir Shvartsman e-mail: vladimir.shvartsman@uni-due.de (+49 (0)201 183-3791)

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Signature Morad Etier