

DR. MUHAMMAD ATIF MAKHDOOM

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◆ EMPLOYMENT HISTORY

- since 2014: Appointment to the position of an Assistant Professor in Department of Metallurgy & Materials Engineering at University of the Punjab Lahore, Pakistan
- 2012 – 2015: Research Scientist at ZAE Bayern Erlangen, Germany
- 2009 – 2014: Appointment to the position of Lecturer in Department of Metallurgy & Materials Engineering at University of the Punjab Lahore, Pakistan
- 2008 – 2009: Appointment as Assistant Manager (QHSE) at KSB Pumps Company Limited, Pakistan
- 2005 – 2008: Appointment as Assistant Manager (Technical) at Millat Equipment Limited, Pakistan
- 2004 – 2005: Appointment as Site Engineer at Riyadh House EST Jeddah, Saudi Arabia

◆ ACADEMIC CREDENTIALS

- 2018 **Ph.D. Materials Engineering** | Friedrich Alexander Universität (FAU) Erlangen-Nürnberg, Germany
- 2011 **M.Sc Metallurgical and Materials Engineering** | University of Engineering & Technology Lahore, Pakistan
- 2005 **B.Sc Metallurgical and Materials Engineering** | University of Engineering & Technology Lahore, Pakistan

◆ PROFESSIONAL TRAININGS & CERTIFICATIONS

- ↳ Supply Chain Management.
- ↳ Balance Score Card and KPIs Development.
- ↳ Certified Quality Professional.
- ↳ ASME codes, Section VIII – division-1.
- ↳ Non Destructive Evaluation of Weldments & their Remedies.
- ↳ XRD, SAXS, SAS, GISAXS, GIWAXS Techniques.
- ↳ Additive Manufacturing.

◆ RESEARCH INTEREST

- ↳ Renewable Energies
- ↳ Photovoltaics & Solar Energy
- ↳ Production of Semiconductor Devices by Printing / Coating Methods
- ↳ Foundry & Casting

◆ LIST OF PUBLICATIONS

Patent:

- ↳ V. Sgobba, **M. Atif Makhdoom**, N. Gawehns, E. Stern, H. J. Egelhaaf, C. J. Brabec, Verfahren zum Entfernen einer Oxidschicht bei Silizium-Nanopartikeln, (Patent application No: DE 10 2016 216 125.3).

Publications:

- ↪ **M. Atif Makhdoom**, V. Sgobba, L.S. Khanzada, S. Fladischer, E. Spiecker (2019), "Tailoring the charge transport properties of printable silicon nanocrystals by conjugated organic ligands", *Physica Status Solidi A*.
- ↪ **M. Atif Makhdoom**, L.S. Khanzada, V. Sgobba (2019), "Charge transport mechanism in thick-films of surface functionalized silicon nanocrystals", *Journal of Nanoelectronics and Optoelectronics*.
- ↪ **M. Atif Makhdoom**, A. Ahmad, M. Kamran, K. Abid, W. Haider (2017), "Microstructural and electrochemical behaviour of 2205 duplex stainless steel weldments", (2017). *Surfaces and Interfaces*, 9.
- ↪ T. Ahmad, S. S. Raza, E. Aleem, M. Kamran, U. Manzoor, **M. Atif Makhdoom**, R. Ahmad, S. Mukhtar (2017), "Improvement in mechanical and thermal properties of unsaturated polyester-based hybrid composites", *Iranian polymer journal*, 26 (4).
- ↪ T. Kazmi, K. A. Bhatti, G. H. Awan, W. Amin, T. Ahmad, M. Kamran, **M. Atif Makhdoom** (2016), "Structural, Morphological, and Mechanical Properties of Laser Irradiated AA-2024-T3 Aluminium Alloy Sheet", *Journal of Pakistan Institute of Chemical Engineers*, 44 (1).
- ↪ **M. Atif Makhdoom**, M. Kamran, G. H. Awan and S. Mukhtar (2013), "Effect of Multipasses on Microstructure and Electrochemical behaviour of Weldments." *Metallurgical and Materials Transactions A*. 44 (12).