

## AHMED SLIMANI, Dr.

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## Education and Research

### **Sorbonne University Abu Dhabi, Sciences and Engineering department, United Arab Emirates**

- Associate professor in Physics, since October 2021-present.
- Assistant professor in Physics, since October 2018-Septembre 2021.

### **Faculty of Sciences, University of Sfax, Sfax, Tunisia**

- Assistant professor in the physics department, laboratory of multifunctional materials and applications, since November 2014 – September 2018.
- Invited researcher for 2 months from 01 May to 30 June 2018 at the National Center of Scientific Research (CNRS) in France / University of Versailles Saint Quentin en Yvelines, Paris, France
- February 2017 : Qualified for Associate Professor position in France
- Invited researcher for 1 month from 21 November to 20 December 2016 at the University of Versailles Saint Quentin en Yvelines, Paris, France

### **University of Tokyo, Tokyo, Japan**

- Postdoctoral fellow in Yamashita and Ushiyama Laboratory, Department of Chemical System Engineering, January 2013 to September 2014

### **University of Versailles Saint Quentin en Yvelines, Versailles, Paris, France**

- Doctorate in Physics of the condensed matter and materials, November-2009 to December-2012, Thesis: “Spatio-temporal aspects of the spin transition: optical microscopy investigation and electro-elastic model.”
- Monitor (teaching service of 64 hours/year in the doctoral contract) in the physics department of the University of Versailles Saint Quentin en Yvelines, November-2009 to December-2012.

### **Faculty of Sciences, University of Sfax, Sfax, Tunisia**

- Master in physics of condensed matter, July-2009  
Master project: “Elaboration, dielectric and Raman spectroscopy characterization of  $\text{BaTi}_{1-x}(\text{Fe}_{1/2}\text{Nb}_{1/2})_x\text{O}_3$  ceramics.”
- Laureate in master of physics of condensed matters awarded by “The Tunisian Society of Physics”, July-2008
- Maîtrise in physics, 2006-2007, obtained with high honors grade and with the second highest marks.
- Diplome National du Premier Cycle in Physical Sciences, 2003-2005, obtained with honors grade.

## Publications

- 1) A. Slimani, K. Boukheddaden, **Journal of applied physics**, **129**, 173901, (2021)
- 2) O. Turki, A. Slimani, N. Abdelmoula, L. Seveyrat, Z. Sassi, H. Khemakhem, L. Lebrun, **Solid State Sciences**, **Volume 114**, 106571, (2021)

- 3) K Affes, A Slimani, Y Singh, A Maalej, K Boukheddaden, **Journal of Physics: Condensed Matter**, **32 (25), 255402 (2020)**
- 4) K Affes, H Fourati, A Slimani, K Boukheddaden, **Journal of the Physical Society of Japan**, **88 (12), 124701, (2019)**
- 5) O. Turki, A. Slimani, L. Seveyrat, Z. Sassi, H. Khemakhem, L. Lebrun, **Journal of applied physics**, **125, 174103, (2019)**
- 6) K. Affes, A. Slimani, A. Maalej, K. Boukheddaden, **Chemical Physics Letters**, **Volume 718, p. 46-53, (2019)**
- 7) A. Slimani, K. Boukheddaden, **Physical Chemistry Chemical Physics**, DOI: **10.1039/C8CP05578E, (2018)**
- 8) A.C. Felts, A. Slimani, J.M. Cain, M.J. Andrus, A.R. Ahir, K.A. Abboud, M.W. Meisel, K. Boukheddaden, D.R. Talham, **Journal of the American Chemical Society**, **140, Pages 5814-5824, (2018)**
- 9) H. Fourati, E. Milin, A. Slimani, G. Chastanet, Y. Abid, S. Triki, K. Boukheddaden, **Physical Chemistry Chemical Physics**, **20, Pages 10142-10154, (2018)**
- 10) A. Slimani, H. Khemakhem, K. Boukheddaden, **Physical Review B** **95, 174104 (2017)**
- 11) O. Turki, A. Slimani, L. Seveyrat, G. Sebald, V. Perrin, Z. Sassi, H. Khemakhem, L. Lebrun, **Journal of applied physics**, **120, 054102, (2016)**
- 12) M. Sy, D. Garrot, A. Slimani, M. Páez-Espejo, F. Varret, and K. Boukheddaden, **Angewandte Chemie-International Edition**, **128, Issue 5, 1787–1791, (2016)**
- 13) K. Boukheddaden, M. Sy, M. Paez-Espejo, A. Slimani and F. Varret, **Physica B: condensed matter**, **Volume 486, 187–191, (2016)**
- 14) A. Slimani, K. Boukheddaden, K. Yamashita, **Physical Review B**, **92, 014111, (2015)**
- 15) K. Boukheddaden, A. Slimani, M. Sy, F. Varret, H. Oubouchou, and R. Traiche in " **Magnetic Structures of 2D and 3D Nanoparticles: Properties and Applications**" Edited by Jean-Claude Serge Levy (Pan Stanford, 2015)
- 16) A. Slimani, K. Boukheddaden, K. Yamashita, **Physical Review B**, **89, 214109, (2014)**
- 17) A. Slimani, X. Yu, A. Muraoka, K. Boukheddaden, K. Yamashita, **Journal of Physical Chemistry A.**, **118 (39):9005-12, (2014)**
- 18) A. Slimani, F. Varret, K. Boukheddaden, D. Garrot, H. Oubouchou, S. Kaizaki, **Physical Review Letters** **110, 087208, (2013)**
- 19) A. Slimani, K. Boukheddaden, F. Varret, H. Oubouchou, M. Nishino, S. Miyashita, **Physical Review B**, **87, 014111, (2013)**
- 20) H. Oubouchou, A. Slimani, K. Boukheddaden, **Physical Review B** **87, 104104, (2013)**
- 21) A. Slimani, K. Boukheddaden, F. Varret, M. Nishino, and S. Miyashita, **The Journal of Chemical Physics**, **139, 19, 194706, (2013)**
- 22) F. Varret, C. Chong, A. Slimani, D. Garrot, Y. Garcia, and Anil D. Naik in " **Spin-Crossover Materials : Properties and applications**" Edited by Malcolm A. Halcrow (John Wiley & Sons Ltd, Oxford, UK, 2013)
- 23) H. Oubouchou, A. Slimani, G. Zribi, N. Haine, M. Zergoug, and K. Boukheddaden, **Sensor Letters**, **Vol. 11, No. 08, (2013)**
- 24) A. Slimani, F. Varret, K. Boukheddaden, C. Chong, H. Mishra, J. Haasnoot, S. Pillet, **Physical Review B**, **84, 094442, (2011)**

- 25) F. Varret, A. Slimani, K. Boukheddaden, C. Chong, H. Mishra, E. Collet, J. Haasnoot, S. Pillot, **New Journal Chemistry**, **35**, 2333-2340, (2011)
- 26) C. Chong, A. Slimani, F. Varret, K. Boukheddaden, E. Collet, J.C. Ameline, R. Bronisz, A. Hauser, **Chemical Physics Letters**, **Volume 504**, Issues 1-3, (2011)
- 27) A. Rotaru, J. Linares, F. Varret, E. Codjovi, A. Slimani, R. Tanasa, C. Enachescu, A. Stancu, J. Haasnoot, **Physical Review B** **83**, 224107, (2011)

## Scientific Meetings

1. Oral communication in the International Workshop of Phase transition and Dynamical properties of Spin Transition Materials, **6-10 May 2019, Gainesville Florida, USA**
  2. Poster communication in the international conference of Ultra control of Materials, **11-14 June 2018, Rennes, France**
  3. Oral communication in 3ème Colloque Recherche Scientifique et Développement Durable the Matériaux et Nanotechnologie (MNTec'2017), 21-23 Avril, 2017, **Sidi Bouzid, Tunisie**,
  4. Oral communication in the Magnetism and molecular commutation days, **22-24 November 2016, Dourdan, France**
  5. Oral communication in the International Conference of Multifunctional Materials and their Applications (2MAP-2016) , **6-8 May 2016, Sousse, Tunisia**
  6. Oral communication in the International Meeting of Advanced Materials (MAM-2015), **7 -9 September 2015, Hammamet, Tunisia**
  7. Oral communication in the 2nd Awaji International Workshop of Electron Spin Science & Technology: Biological and Materials Science Oriented Applications” (2nd AWEST 2014), **15 – 17 June 2014, the Awaji Island, Hyogo, Japan**
  8. Poster communication in the American Physical Society march meeting, **3-7 March 2014, Denver, USA**
  9. Poster communication in the 5th JCS International Symposium of Theoretical Chemistry, **December 2-6, Nara-2013, Japan**
  10. Oral communication in the Magnetism and molecular commutation days, **4-6 December 2012, Dourdan, France**
  11. Oral communication in the fourth International Workshop of Phase transition and Dynamical properties of Spin Transition Materials, **22-25 May 2012, Meudon, France**
  12. Oral communication in the Institut Fédérale Franklin Lavoisier day, **6 January 2012, Versailles, France**
  13. Poster communication in the Third European Conference of Molecular Magnetism, **22-25 November 2011, Paris, France**
  14. Oral communication in the international symposium of the Advanced Complex Inorganic Nanomaterials, **11-14 September 2011, Namur, Belgium**
  15. Oral communication in the international workshop Switchable materials, **27-29 November 2011, Brest, France**
  16. Oral communication in the Magnetism and molecular commutation days, **7-8 July 2010, Montpellier, France**
  17. Poster communication in the fourth International Conference of Molecular Materials, **5-8 July 2010, Montpellier, France**
- member of the Organizing Committee which organized the International Meeting on TRAMP2017 : Nanomatériaux : Microstructure Et Propriétés at Hammamet, Tunisia (22 - 24 March 2017)
  - member of the Organizing Committee which organized the International Meeting on "Research to Applications & Markets (RAM 2016) at Hammamet, Tunisia (16-18 September 2016)

- member of the Organizing Committee which organized the International Meeting on Advanced Materials (MAM-2015) at Hammamet, Tunisia (7 -9 September 2015)
- member of the Organizing Committee which organized the fourth International Workshop on Phase transition and Dynamical properties of Spin Transition Materials (PDSTM2012) at Versailles, France (22th -25th May 2012),
- member of the Organizing Committee which organized the International Meeting on Materials for Electronic Applications (IMMEA-2009) at Hammamet, Tunisia (May 8-10, 2009)

## **Supervision**

1. Supervision of Khawla Jeder a master student on the research topic “Simulation of the effects of dilution on the relaxation of a metastable high spin state at low temperature” from February 2018 to July 2018 in the University of Sfax, Faculty of Sciences, Sfax, Tunisia.
2. Supervision of Sabil Arnouni a master student on the research topic “Effects of the misfit of lattice parameters between the high-spin and low-spin states on the spatio-temporal aspects of the spin transition investigated through an electro-elastic model” from February 2016 to September 2016 in the University of Sfax, Faculty of Sciences, Sfax, Tunisia.
3. Co-supervision with Prof. Hamadi Khemakhem of Olfa Turki a Ph.D student on the research topic “Effect of rare earth doping on the dielectric, ferroelectric, piezoelectric and electrocaloric properties of the NBT-BT ceramics” starting since November 2014 in the University of Sfax, Faculty of Sciences, Sfax, Tunisia.
4. Co-supervision with Prof. Ahmed Maalej of Karim Affes a Ph.D student on the research topic “Monte-Carlo simulation of the spin transition of a nanoparticle” starting since September 2015 in the University of Sfax, Faculty of Sciences, Sfax, Tunisia.
5. Supervision of Karim Affes a master student on the research topic “Investigation of the thermo-induced spin transition of a nanoparticle embedded in an elastic matrix” during February-September 2015 in the University of Sfax, Faculty of Sciences, Sfax, Tunisia.

## **Training programs attended**

- Awarded the high level scientific stay (Séjour Scientifique de Haut Niveau) by the French institute (Institut Français) of Tunisia, June 2015,
- Participated in extending the power of computational materials sciences with K-computer Symposium conducted by CMSI (Computational Materials Science Initiative) at Tokyo Japan during 21 - 22 October 2013.
- Participated in two workshops on numerical simulation and molecular dynamics conducted by ESNUM (Ecole de Simulation numérique), Pierre and Marie Curie University, Paris, France, during 7 - 9 June 2010 and 6 - 9 June 2011.
- Participated in One-day seminar on PhD popularization conducted by CIES (Centre d’Initiation à l’Enseignement Supérieur), Versailles, France, on April 7, 2010.
- Participated in an animate education program conducted by CIES (Centre d’Initiation à l’Enseignement Supérieur), Versailles, France, during 20-21 May 2010.
- Participated in workshop on Matlab for image processing conducted by Mathworks, Paris, France during 17-18 march 2010.

Regards,  
**Ahmed Slimani, Dr.**