

Yassine Abdelhamid Slimani

Associate Professor, Senior Researcher
Institute for Research and Medical Consultations (IRMC),
Imam Abdulrahman Bin Faisal University (IAU)



Personal Data

Nationality | Tunisian

Date of Birth | October 01, 1988

Department | Department of Biophysics, Institute for Research and Medical Consultations (IRMC),
Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia

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Language Proficiency

Language	Read	Write	Speak
Arabic	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent
French	Excellent	Excellent	Excellent

Academic Qualifications

Date	Academic Degree	Place of Issue	Address
2015	PhD in Physics	Faculty of Sciences of Bizerte, University of Carthage	Tunisia
2012	Master in Materials Physics and Applications	Faculty of Sciences of Bizerte, University of Carthage	Tunisia
2010	Bachelor's in physics	Faculty of Sciences of Bizerte, University of Carthage	Tunisia

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Comparative study of the superconducting properties of $Y_3Ba_5Cu_8O_{18\pm y}$ and $YBa_2Cu_3O_{7-y}$ compounds: Magnetic nanoparticles addition
Master	Contribution to the elaboration of the $Y_3Ba_5Cu_8O_{18}$ compound - Superconducting properties

Professional Record

Job Rank	Place and Address of Work			Date
Associate Professor / Senior Researcher	Institute for Research and Medical Consultations (IRMC)	Imam Abdulrahman Bin Faisal University (IAU)	Saudi Arabia	2021 - Present
Assistant Professor / Senior Researcher	Institute for Research and Medical Consultations (IRMC)	Imam Abdulrahman Bin Faisal University (IAU)	Saudi Arabia	2017 - 2021
Contractual Assistant Professor	Faculty of Sciences of Bizerte	University of Carthage	Tunisia	2015 - 2016
Teaching Assistant	Faculty of Sciences of Bizerte	University of Carthage	Tunisia	2013 - 2015



Administrative Responsibilities, Committee and Community Service

#	From	To	Position	Organization
1	January 2020	Now	Recruitment Committee	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Saudi Arabia
2	September 2019	August 2020	Training and Development Committee	Institute for Research and Medical Consultations, Imam Abdulrahman Bin Faisal University, Saudi Arabia
3	2016	2017	Member of several Research Masters jury	Tunisia
4	2014	2017	Member of Tunisian Society of Physics	Tunisia
5	2014	2017	Member of Tunisian Materials Research Society	Tunisia
6	2013	2014	Member organization of local and international conferences	Tunisia
7	01 April 2013	30 April 2013	Scientific Consultations: Abant Izzet Baysal University, Bolu, Turkey	Abant Izzet Baysal University, Bolu, Turkey

Honors and Awards

#	Honors and Awards	Date
1	"WORLD'S TOP 2% RANKING SCIENTISTS for the Year 2019" - International Ranking. The databases were performed by Stanford University. Sources - PLOS Biology: https://doi.org/10.1371/journal.pbio.3000918 & https://dx.doi.org/10.17632/btchxktzyw	November 2020
2	"Top Peer Review 2019" Award Top 1% of reviewers in Physics on Publons global reviewer databases during the year 2018-2019 award year. Powered by Publons and Web of Science Groups.	17 th September 2019
3	"The Best Achievement in Publication" Award Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University, Dammam - Saudi Arabia.	30 th August 2018
4	"Young Scientist in Nanotechnology" Award Under the Science Discipline. 4th Venus International Research Awards - VIRA 2018, India	28 th June 2018

Performed Training Courses and Workshops

#	Courses and Workshops	Place	Date
1	« Writing skills » workshop	Researcher Academy - ELSEVIER	December 01, 2020
2	« RESEARCH TECHNIQUES AND TOOLS LEVEL » workshop	Clarivate Analytics & Imam Abdulrahman Bin Faisal University (Saudi Arabia)	November 24, 2020
3	« Fundamentals of manuscript preparation » workshop	Researcher Academy - ELSEVIER	November 24, 2020
4	« Book writing » workshop	Researcher Academy - ELSEVIER	November 23, 2020
5	« Technical writing skills » workshop	Researcher Academy - ELSEVIER	November 23, 2020
6	« QUALITY IN SCIENTIFIC RESEARCH » workshop	Clarivate Analytics & Imam Abdulrahman Bin Faisal University (Saudi Arabia)	November 17, 2020
7	« Author Workshop Scholarly Publishing» (by Elsevier)	Elsevier and Imam Abdulrahman Bin Faisal University (Saudi Arabia)	December 20, 2017
8	« ELSEVIER - Author Workshop »	Imam Abdulrahman Bin Faisal University, Dammam - Saudi Arabia	December 19, 2017
9	Course: « Control of Biohazards Course »	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia	March 19-22, 2017
10	Thomson Reuters training sessions	Faculty of Sciences of Bizerte – University of Carthage, Tunisia	April 23, 2015



11	Thomson Reuters training sessions	University of Tunis Al-Manar, Tunisia	April 16, 2015
12	Tunisian-Greek meeting – Materials Sciences and Technological Transfer - MSTT 2015	Research and Technology Center of Energy at Borj-Cedria Eco Park, Tunisia	January 20, 2015
13	Workshop: « Physics Days of Young Researchers - JJCP 2014 »	Tunisian Physical Society at Faculty of Sciences of Tunis, Tunisia	26 February - 01 Mars 2014
14	School and Workshop: « First North African School and Workshop on electron microscopy - EμM-2013 »	L3M laboratory and Tunisian Society of Physics at IPEST La Marsa, Tunisia	September 01-13, 2013
15	Scientific Internship	Faculty of Science and Arts, Abant Izzet Baysal University, Bolu, Turkey	01-30 April 2013

Scientific Achievements

Patents

#	Name of Inventor(s) / Research Title / Publisher	Reference or Application No. / Date
1	Inventor(s): Munirah A. ALMESSIERE, Sultan AKHTAR, Suriya REHMAN, Yassine SLIMANI , Abdulhadi BAYKAL, Firdos Alam KHAN Title: Production of MnZnSmEu-doped iron oxide nanoparticles and their potential biological applications	US Patent Grant (Submitted to PTTO in March 2021)
2	Inventor(s): Munirah A. ALMESSIERE, Suriya REHMAN, Firdos Alam KHAN, Yassine SLIMANI , Nedaa TASKHANDI, Abdulhadi BAYKAL Title: Synthesis and biological characterization of $Mn_{0.5}Zn_{0.5}Eu_xDy_xFe_{1.8-2x}O_4$ nanoparticles by sonochemical approach	US Patent Grant (Submitted to PTTO in March 2021)
3	Inventor(s): Yassine Slimani , Munirah Abdullah Almessiere, Abdulhadi Baykal Title: Nanocomposites based on eco-friendly ferroelectric $BaTiO_3$ and superparamagnetic $Co_{0.7}Zn_{0.3}Tm_{0.01}Fe_{1.99}O_4$	US Patent Grant 534570US (Green Light Jan. 2021) (Submitted to PTTO on 29/09/2020)
4	Inventor(s): Yassine Slimani , Munirah Abdullah Almessiere, Abdulhadi Baykal Title: Synthesis of Novel Ferroelectric/Ferrimagnetic (1-x) $BaTiO_3/xSr_{0.92}Ca_{0.04}Mg_{0.04}Fe_{12}O_{19}$ Composites With Tailored Properties for Multifunctional Devices	US Patent Grant (Submitted to PTTO on 29/09/2020)
5	Inventor(s): Yassine Slimani , Munirah Abdullah Almessiere, Abdulhadi Baykal Title: Novel magnetic nanomaterials of $Ni_{0.4}Cu_{0.2}Zn_{0.4}Tb_xFe_{2-x}O_4$ nanospinel ferrites with enhanced magnetic features prepared via an easy and novel synthesis method	US Patent Grant (Submitted to PTTO on 30/09/2020)
6	Inventor(s): Yassine Slimani , Munirah Abdullah Almessiere, Abdulhadi Baykal Title: Sonochemically synthesized $Co_{0.3}Ni_{0.5}Mn_{0.2}Eu_xFe_{2-x}O_4$ nano-spinel ferrites	US Patent Grant (Submitted to PTTO on 30/09/2020)
7	Inventor(s): Huseyin Tombuloglu, Munirah Abdullah Almessiere, Yassine Slimani , Ismail Ercan, Abdulhadi Baykal Title: Incorporation of micro-nutrients (nickel, copper, zinc, and iron) into plant body through nanoparticles	US Patent Grant (Submitted to PTTO in January 2020)
8	Inventor(s): Yassine SLIMANI , Munirah Abdullah ALMESSIERE, Faten Ben Azzouz Title: YTTRIUM-BASED SUPERCONDUCTORS WITH TUNGSTEN NANO-STRUCTURES United States Patent Link: https://patents.google.com/patent/US20200119252A1/en	Application No.: 16/161,430 Publication No.: US 2020/0119252 A1 Publication Date: 04/16/2020
9	Inventor(s): Yassine Slimani Title: METHOD OF PRODUCING POLYCRYSTALLINE Y-358 SUPERCONDUCTOR United States Patent. Link: https://patents.google.com/patent/US20200095167A1/en	Application No.: 16/139,755 Publication No.: US 2020/0095167 A1 Publication Date: 03/26/2020



Published Refereed Scientific Papers

#	Name of Author(s) / Research Title / Publisher, Volume (Date) Page/ Link
1	R. Algarni, Y. Slimani , E. Hannachi, M.A. Almessiere, B.H. Alqahtani, S. Akhtar, F. Ben Azzouz, Intergrain connectivity in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ superconductor added with Dy_2O_3 nanoparticles: AC susceptibility investigation, Current Applied Physics (2021). https://doi.org/10.1016/j.cap.2021.04.013 (Impact Factor: 2.281)
2	Roselin Ranjitha Mathiarasu, A. Manikandan, Jeena N. Baby, Kurinjinathan Panneerselvam, Raghu Subashchandrabose, Mary George, Y. Slimani , M.A. Almessiere, A. Baykal, Hexagonal basalt-like ceramics $\text{La}_x\text{Mg}_{1-x}\text{TiO}_3$ ($x = 0$ and 0.5) contrived via deep eutectic solvent for selective electrochemical detection of dopamine, Physica B: Condensed Matter (2021). https://doi.org/10.1016/j.physb.2021.413068 (Impact Factor: 1.902)
3	Vladimir E. Zhivulin, Evgeniy A. Trofimov, Svetlana A. Gudkova, Igor Yu. Pashkeev, Alexander Yu. Punda, Maksim Gavrilyak, Olga V. Zaitseva, Sergey V. Taskaev, Fedor V. Podgornov, Moustafa A. Darwish, Munirah A. Almessiere, Yassine Slimani , Abdulhadi Baykal, Sergei V. Trukhanov, Alex V. Trukhanov, Denis A. Vinnik, Polysubstituted High-Entropy $[\text{LaNd}](\text{Cr}_{0.2}\text{Mn}_{0.2}\text{Fe}_{0.2}\text{Co}_{0.2}\text{Ni}_{0.2})\text{O}_3$ Perovskites: Correlation of the Electrical and Magnetic Properties, Nanomaterials 11(4) (2021) 1014. https://doi.org/10.3390/nano11041014 (Impact Factor: 4.324)
4	Munirah Abdullah Almessiere, Yassine Slimani , Hakan Güngüneş, Ayse Demir Korkmaz, Tatiana Zubar, Sergei Trukhanov, Alex Trukhanov, Ayyar Manikandan, Fatimah Alahmari, Abdulhadi Baykal, Influence of Dy^{3+} Ions on the Microstructures and Magnetic, Electrical, and Microwave Properties of $[\text{Ni}_{0.4}\text{Cu}_{0.2}\text{Zn}_{0.4}](\text{Fe}_{2-x}\text{Dy}_x)\text{O}_4$ ($0.00 \leq x \leq 0.04$) Spinel Ferrites, ACS Omega 6(15) (2021) 10266-10280. https://doi.org/10.1021/acsomega.1c00611 (Impact Factor: 2.87)
5	Omar Alagha, Nouredine Ouerfelli, Hafedh Kochkar, Munirah A. Almessiere, Yassine Slimani , Ayyar Manikandan, Abdulhadi Baykal, Ahmed Mostafa, Mukarram Zubair, Mohammad H. Barghouthi, Kinetic Modeling for Photo-Assisted Penicillin G Degradation of $(\text{Mn}_{0.5}\text{Zn}_{0.5})[\text{Cd}_x\text{Fe}_{2-x}]\text{O}_4$ ($x \leq 0.05$) Nanospinel Ferrites, Nanomaterials 11(4) (2021) 970. https://doi.org/10.3390/nano11040970 (Impact Factor: 4.324)
6	P. Annie Vinosha, A. Manikandan, A. Christy Preetha, A. Dinesh, Y. Slimani , M. A. Almessiere, A. Baykal, Belina Xavier, G. Francisco Nirmala, Review on Recent Advances of Synthesis, Magnetic Properties, and Water Treatment Applications of Cobalt Ferrite Nanoparticles and Nanocomposites, Journal of Superconductivity and Novel Magnetism (2021). https://doi.org/10.1007/s10948-021-05854-6 (Impact Factor: 1.244)
7	M.A. Almessiere, Y. Slimani *, A.V. Trukhanov, A. Sadaqat, A. Demir Korkmaz, N.A. Algarou, H. Aydın, A. Baykal, Muhammet S. Toprak, Review on functional bi-component nanocomposites based on hard/soft ferrites: Structural, magnetic, electrical and microwave absorption properties, Nano-Structures & Nano-Objects 26 (2021) 100728. https://doi.org/10.1016/j.nanoso.2021.100728
8	Muhammad Aamir, Ismat Bibi, Sadia Ata, Farzana Majid, Norah Alwadai, Aljawhara H. Almuqrin, Hind Albalawi, Yassine Slimani , Muzaffar Bashir, Munawar Iqbal, Micro-emulsion approach for the fabrication of $\text{La}_{1-x}\text{Gd}_x\text{Cr}_{1-y}\text{Fe}_y\text{O}_3$: Magnetic, dielectric and photocatalytic activity evaluation under visible light irradiation, Results in Physics 23 (2021) 104023. https://doi.org/10.1016/j.rinp.2021.104023 (Impact Factor: 4.019)
9	Suhailah S. Aljameel, Munirah A. Almessiere, Firdos A. Khan, Nedaa Taskhandi, Yassine Slimani , Najat S. Al-Saleh, Ayyar Manikandan, Ebtessam A. Al-Suhaimi, Abdulhadi Baykal, Synthesis, Characterization, Anti-Cancer Analysis of $\text{Sr}_{0.5}\text{Ba}_{0.5}\text{Dy}_x\text{Sm}_x\text{Fe}_{8-2x}\text{O}_{19}$ ($0.00 \leq x \leq 1.0$) Microsphere Nanocomposites, Nanomaterials 11(3) (2021) 700. https://doi.org/10.3390/nano11030700 (Impact Factor: 4.324)
10	V.E. Zhivulin, O.V. Zaitseva, E.A. Trofimov, N.S. Zabeivorota, M.V. Gavrilyak, F.V. Podgornov, D.A. Vinnik, M.A. Almessiere, Y. Slimani , A. Baykal, K.A. Astapovich, A.V. Trukhanov, Anisotropy of the electrical properties of a single crystal of $\text{BaFe}_{11.25}\text{Ti}_{0.75}\text{O}_{19}$ M-type barium hexaferrite, Journal of Solid State Chemistry 298 (2021) 122104. https://doi.org/10.1016/j.jssc.2021.122104 (Impact Factor: 2.726)
11	Saima Noreen, Kalsoom Khalid, Munawar Iqbal, Hanadi B. Baghdadi, Numrah Nisar, Umme Habibah Siddiqua, Jan Nisar, Yassine Slimani , Muhammad I. Khan, Arif Nazir, Eco-benign approach to produce biodiesel from neem oil using heterogeneous nano-catalysts and process optimization, Environmental Technology & Innovation 22 (2021) 101430. https://doi.org/10.1016/j.eti.2021.101430 (Impact Factor: 3.356)
12	Aamir Ghafoor, Ismat Bibi, Sadia Ata, Farzana Majid, Shagufta Kamal, Fariha Rehman, Shahid Iqbal, Muhammad Aamir, Yassine Slimani , Munawar Iqbal, Abdul Mailk, Synthesis and characterization of magnetically separable $\text{La}_{1-x}\text{Bi}_x\text{Cr}_{1-y}\text{Fe}_y\text{O}_3$ and photocatalytic activity evaluation under visible light, Zeitschrift für Physikalische Chemie (2021). https://doi.org/10.1515/zpch-2020-1747 (Impact Factor: 2.030)
13	M. George, T.L. Ajeesha, A. Manikandan, Ashwini Anantharaman, R.S. Jansi, E. Ranjith Kumar, Y. Slimani , M.A. Almessiere, A. Baykal, Evaluation of $\text{Cu-MgFe}_2\text{O}_4$ spinel nanoparticles for photocatalytic and antimicrobial activities,



	Journal of Physics and Chemistry of Solids 153 (2021) 110010. https://doi.org/10.1016/j.jpccs.2021.110010 (Impact Factor: 3.442)
14	Sadia Ata, Ifra Shaheen, Farzana Majid, Ismat Bibi, Ijaz-ul-Mohsin, Kashif Jilani, Yassine Slimani , Munawar Iqbal, Hydrothermal route for the synthesis of manganese ferrite nanoparticles and photocatalytic activity evaluation for the degradation of methylene blue dye, Zeitschrift für Physikalische Chemie (2021). https://doi.org/10.1515/zpch-19-1381 (Impact Factor: 2.030)
15	S. Blessi, S. Anand, A. Manikandan, M. Maria Lumina Sonia, V. Maria Vinosel, Y. Slimani , M. A. Almessiere, A. Baykal, Influence of Ni substitution on opto-magnetic and electrochemical properties of CTAB-capped mesoporous SnO ₂ nanoparticles, Journal of Materials Science: Materials in Electronics 32 (2021) 7630–7646. https://doi.org/10.1007/s10854-021-05479-4 (Impact Factor: 2.220)
16	Mohammad Tabish, Muhammad Uzair Malik, Muhammad Abubaker Khan, Ghulam Yasin, Hafiz Muhammad Asif, Muhammad Junaid Anjum, Waheed Qamar Khan, Shumaila Ibraheem, Tuan Anh Nguyen, Y. Slimani , M. Tariq Nazir, Construction of NiCo/Graphene Nanocomposite Coating with Bulges-like Morphology for Enhanced Mechanical Properties and Corrosion Resistance Performance, Journal of Alloys and Compounds 867 (2021) 159138. https://doi.org/10.1016/j.jallcom.2021.159138 (Impact Factor: 4.650)
17	S. Blessi, S. Anand, A. Manikandan, M. Maria Lumina Sonia, V. Maria Vinosel, Y. Slimani , M. A. Almessiere, A. Baykal, Structural, optical, and electrochemical investigations of Sb-substituted mesoporous SnO ₂ nanoparticles, Journal of Materials Science: Materials in Electronics 32 (2021) 4132–4145. https://doi.org/10.1007/s10854-020-05155-z (Impact Factor: 2.220)
18	M. Vanitha, G. Ramachandran, A. Manikandan, Y. Slimani , M. A. Almessiere, A. Baykal, Chandra Sekhar Dash, Effect of Sr ²⁺ Ion-Substituted Nickel Ferrite Nanoparticles Prepared by a Simple Microwave Combustion Method, Journal of Superconductivity and Novel Magnetism (2021). https://doi.org/10.1007/s10948-020-05777-8 (Impact Factor: 1.244)
19	Anuj Kumar, Ghulam Yasin, Vinod Kumar Vashistha, Deepak K. Das, Majeed Ur Rehman, Rashid Iqbal, Zhousheng Mo, Tuan Anh Nguyen, Y. Slimani , M. Tariq Nazir, Wei Zhao, Enhancing oxygen reduction reaction performance via CNTs/Graphene supported Iron Protoporphyrin IX: A hybrid Nanoarchitecture Electrocatalyst, Diamond & Related Materials 113 (2021) 108272. https://doi.org/10.1016/j.diamond.2021.108272 (Impact Factor: 2.650)
20	Quentin Nouailhetas, Anjela Koblichka-Veneva, Michael R. Koblichka, Pavan Kumar Naik S., Florian Schäfer, H. Ogino, Christian Motz, Kevin Berger, Bruno Douine, Yassine Slimani , Essia Hannachi, Magnetic phases in superconducting, polycrystalline bulk FeSe samples, AIP Advances 11 (2021) 015230. https://doi.org/10.1063/9.0000167 (Impact Factor: 1.337)
21	Y. Slimani , N.A. Algarou, M.A. Almessiere, A. Sadaqat, M.G. Vakhitov, D.S. Klygach, D.I. Tishkevich, A.V. Trukhanov, S. Güner, A.S. Hakeem, I.A. Auwal, A. Baykal, A. Manikandan, I. Ercan, Fabrication of exchange coupled hard/soft magnetic nanocomposites: Correlation between composition, magnetic, optical and microwave properties, Arabian Journal of Chemistry 14(3) (2021) 102992. https://doi.org/10.1016/j.arabj.2021.102992 (Impact Factor: 4.762)
22	P. Annie Vinosha, A. Manikandan, A. Sherley Judith Ceicilia, A. Dinesh, G. Francisco Nirmala, A. Christy Preetha, Y. Slimani , M.A. Almessiere, A. Baykal, Belina Xavier, Review on recent advances of zinc substituted cobalt ferrite nanoparticles: Synthesis characterization and diverse applications, Ceramics International 47(8) (2021) 10512-10535. https://doi.org/10.1016/j.ceramint.2020.12.289 (Impact Factor: 3.830)
23	S. Gunasekaran, K. Thanrasu, A. Manikandan, M. Durka, A. Dinesh, S. Anand, S. Shankar, Y. Slimani , M.A. Almessiere, A. Baykal, Structural, fabrication and enhanced electromagnetic wave absorption properties of reduced graphene oxide (rGO)/zirconium substituted cobalt ferrite (Co _{0.5} Zr _{0.5} Fe ₂ O ₄) nanocomposites, Physica B 605 (2021) 412784. https://doi.org/10.1016/j.physb.2020.412784 (Impact Factor: 1.902)
24	Muhammad Nadeem, Ghulam Yasin, Muhammad Arif, Hassina Tabassum, Moazzam H. Bhatti, Mazhar Mehmood, Uzma Yunus, Rashid Iqbal, Tuan Anh Nguyen, Yassine Slimani , Huaihe Song, Wei Zhao, Highly active sites of Pt/Er dispersed N-doped hierarchical porous carbon for trifunctional electrocatalyst, Chemical Engineering Journal 409 (2021) 128205. https://doi.org/10.1016/j.cej.2020.128205 (Impact Factor: 10.652)
25	Y. Slimani , B. Unal, M.A. Almessiere, A. Demir Korkmaz, A. Baykal, Investigation of AC susceptibility, dielectric and electrical properties of Tb-Tm co-substituted M-type Sr hexaferrites, Materials Chemistry and Physics 260 (2021) 124162. https://doi.org/10.1016/j.matchemphys.2020.124162 (Impact Factor: 3.408)
26	Huseyin Tombuloglu, Yassine Slimani , Thamer Marhoon AlShammari, Guzin Tombuloglu, Munirah A. Almessiere, Huseyin Sozeri, Abdulhadi Baykal, Ismail Ercan, Delivery, fate and physiological effect of engineered cobalt ferrite nanoparticles in barley (Hordeum vulgare L.), Chemosphere 265 (2021) 129138. https://doi.org/10.1016/j.chemosphere.2020.129138 (Impact Factor: 5.778)
27	Munirah A. Almessiere, Yassine Slimani , Ismail A. Auwal, Sagar E. Shirsath, Ayyar Manikandan, Abdulhadi Baykal, Bekir Özçelik, Ismail Ercan, Sergei V. Trukhanov, Denis A. Vinnik, Alex V. Trukhanov, Impact of Tm ³⁺ and Tb ³⁺ Rare Earth



	Cations Substitution on the Structure and Magnetic Parameters of Co-Ni Nanospinel Ferrite, <i>Nanomaterials</i> 10(12) (2020) 2384. http://dx.doi.org/10.3390/nano10122384 (Impact Factor: 4.324)
28	T. Ajeesha, Ashwini A, Mary George, A. Manikandan, J. Arul Mary, Y. Slimani , M.A. Almessiere, A. Baykal, Nickel substituted $MgFe_2O_4$ nanoparticles via co-precipitation method for photocatalytic applications, <i>Physica B</i> 606 (2021) 412660. https://doi.org/10.1016/j.physb.2020.412660 (Impact Factor: 1.902)
29	Michael Rudolf Koblischka, Yassine Slimani , Anjela Koblischka-Veneva, Thomas Karwoth, XianLin Zeng, Essia Hannachi, Masato Murakami, Excess Conductivity Analysis of Polycrystalline FeSe Samples with the Addition of Ag, <i>Materials</i> 13(21) (2020) 5018. https://doi.org/10.3390/ma13215018 (Impact Factor: 3.057)
30	P. Annie Vinosha, A. Manikandan, R. Ragu, A. Dinesh, P. Paulraj, Y. Slimani , M.A. Almessiere, A. Baykal, J. Madhavan, B. Xavier, G. Francisco Nirmala, Exploring the influence of varying pH on structural, electro-optical, magnetic and photo-Fenton properties of mesoporous $ZnFe_2O_4$ nanocrystals, <i>Environmental Pollution</i> 272 (2021) 115983. https://doi.org/10.1016/j.envpol.2020.115983 (Impact Factor: 6.792)
31	R. Algarni, E. Hannachi, Y. Slimani , M.A. Almessiere, F. Ben Azzouz, Flux pinning mechanisms of $(YBa_2Cu_3O_{y-d})_{1-x}/(Dy_2O_3)_x$ superconductors ($x=0.1$ and 0.5 wt%), <i>Ceramics International</i> 47(5) (2021) 6675-6682. https://doi.org/10.1016/j.ceramint.2020.11.007 (Impact Factor: 3.830)
32	Michael Rudolf Koblischka, Anjela Koblischka-Veneva, XianLin Zeng, Essia Hannachi, Yassine Slimani , Microstructure and Fluctuation-Induced Conductivity Analysis of $Bi_2Sr_2CaCu_2O_{8+\delta}$ (Bi-2212) Nanowire Fabrics, <i>Crystals</i> 10(11) (2020) 986. https://doi.org/10.3390/cryst10110986 (Impact Factor: 2.404)
33	Norah A. Algarou, Yassine Slimani , Munirah A. Almessiere, Ali Sadaqat, Alex V. Trukhanov, Mohammad A. Gondal, Abbas S. Hakeem, Sergei V. Trukhanov, Maksim G. Vakhitov, Denis S. Klygach, Ayyar Manikandan, Abdulhadi Baykal, Functional $Sr_{0.5}Ba_{0.5}Sm_{0.02}Fe_{11.98}O_4/x(Ni_{0.8}Zn_{0.2}Fe_2O_4)$ Hard-Soft Ferrite Nanocomposites: Structure, Magnetic and Microwave Properties, <i>Nanomaterials</i> 10(11) (2020) 2134. https://doi.org/10.3390/nano10112134 (Impact Factor: 4.324)
34	P. Annie Vinosha, A. Manikandan, R. Ragu, A. Dinesh, K. Thanrasu, Y. Slimani , A. Baykal, Belina Xavier, Impact of nickel substitution on structure, magneto-optical, electrical and acoustical properties of cobalt ferrite nanoparticles, <i>Journal of Alloys and Compounds</i> 857 (2021) 157517. https://doi.org/10.1016/j.jallcom.2020.157517 (Impact Factor: 4.650)
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Refereed Scientific Research Papers Accepted for Publication

#	Name of Investigator(s), Research Title, Journal and Acceptance Date
1	
2	
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Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

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1	Quentin Nouaillhetas, Anjela Koblichka-Veneva, Michael Koblichka, Kevin Berger, Bruno Douine, Yassine Slimani , Essia Hannachi, Magnetic phases in superconducting, polycrystalline bulk FeSe samples, 65th Annual Conference on Magnetism and Magnetic Materials (MMM 2020). https://hal.univ-lorraine.fr/hal-02996089
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Published Books and Chapter Books

#	Type	Name of Author(s) / Research Title / Publisher and Date of Publication
1	Book	<ul style="list-style-type: none"> • Editor(s): Yassine Slimani, Essia Hannachi • Book entitled "Superconducting Materials - Fundamentals, Synthesis and Applications". • Imprint: Springer • Published Date: Accepted – Forthcoming 2022
2	Chapter Book	<ul style="list-style-type: none"> • Author(s): Yassine Slimani, Essia Hannachi, Ghulam Yasin • Chapter XX: "Air pollution management by nanomaterials". • Chapter Link: https:// • Publication: Apple Academic Press 2021 • In book entitled: "Environmental Contamination Remediation through Nanotechnology". • Book Link: https:// • Imprint: Apple Academic Press (AAP) • Published Date: Forthcoming (2021-2022) • ISBN: Not yet Available
3	Chapter Book	<ul style="list-style-type: none"> • Author(s): Yassine Slimani, Essia Hannachi • Chapter 16: "Advanced progress in magnetoelectric multiferroic composites: Fundamentals, Applications and Toxicity". • Chapter Link: https:// • Publication: Springer 2021 • In book entitled: "Handbook of Magnetic Hybrid Nanoalloys and their Nanocomposites".



		<ul style="list-style-type: none"> • Book Link: https://meteor.springer.com/nanoalloys • Imprint: Springer • Published Date: Forthcoming (2021) • ISBN: Not yet Available
4	Book	<ul style="list-style-type: none"> • Editor(s): Shamsheer Kanwar, Ashok Kumar, Tuan Anh Nguyen, Swati Sharma, Yassine Slimani • Book entitled “Biopolymeric Nanomaterials: Fundamentals and Applications”. • Book Link: https://www.elsevier.com/books/biopolymeric-nanomaterials/kanwar/978-0-12-824364-0 • Imprint: Elsevier • Published Date: 1st August 2021 • ISBN: 9780128243640
5	Chapter Book	<ul style="list-style-type: none"> • Author(s): Yassine Slimani, Essia Hannachi • Chapter 12: “Synthesis of Ferrite Nanoparticles Using Sonochemical Methods”. • Chapter Link: https:// • Publication: Elsevier 2021 <hr/> <ul style="list-style-type: none"> • In book entitled: “Ferrite Nanostructured Magnetic Materials: Technologies and Applications”. • Book Link: https:// • Imprint: Elsevier • Published Date: Forthcoming (2021) • ISBN: Not yet Available
6	Chapter Book	<ul style="list-style-type: none"> • Author(s): Yassine Slimani, Essia Hannachi • Chapter 1: “Green Chemistry and Sustainable Nanotechnological Developments: Principles, Designs, Applications, and Efficiency”. • Chapter Link: https://doi.org/10.1201/9781003083917-1 • Publication: 2021 <hr/> <ul style="list-style-type: none"> • In book entitled: “Green Polymer Chemistry and Composites: Pollution Prevention and Waste Reduction”. • Book Link: https://www.appleacademicpress.com/green-polymer-chemistry-and-composites-pollution-prevention-and-waste-reduction/9781771889377 • Imprint: Apple Academic Press (AAP) • Published Date: May 2021 • ISBN: 9781771889377
7	Chapter Book	<ul style="list-style-type: none"> • Author(s): Essia Hannachi, Yassine Slimani • Chapter 6: “Nanomaterials for nanogenerator”. • Chapter Link: https://doi.org/10.1016/b978-0-12-821548-7.00006-3 • Publication: Elsevier 2021, Pages 69-87 <hr/> <ul style="list-style-type: none"> • In book entitled: “Nanobatteries and Nanogenerators: Fundamentals, Manufacturing and Applications”. • Book Link: https://doi.org/10.1016/C2019-0-02686-6 • Imprint: Elsevier • Published Date: 26th November 2020 • ISBN: 9780128215487
8	Chapter Book	<ul style="list-style-type: none"> • Author(s): Yassine Slimani, Essia Hannachi • Chapter 13: “Nanomaterials and nanotechnology for high-performance rechargeable battery”. • Chapter Link: https://doi.org/10.1016/b978-0-12-821548-7.00013-0 • Publication: Elsevier 2021, Pages 343-363 <hr/> <ul style="list-style-type: none"> • In book entitled: “Nanobatteries and Nanogenerators: Fundamentals, Manufacturing and Applications”. • Book Link: https://doi.org/10.1016/C2019-0-02686-6 • Imprint: Elsevier • Published Date: 26th November 2020 • ISBN: 9780128215487
9	Chapter Book	<ul style="list-style-type: none"> • Author(s): Yassine Slimani, Essia Hannachi • Chapter 16: “Ru-based perovskites/RGO composites for applications in high performance supercapacitors”. • Chapter Link: https://doi.org/10.1016/B978-0-12-819977-0.00016-0 • Publication: Elsevier (2021) 335-354 <hr/> <ul style="list-style-type: none"> • In Book entitled: “Hybrid Perovskite Composite Materials: Design to Applications”. • Book Link: https://doi.org/10.1016/C2019-0-00638-3 • Imprint: Woodhead Publishing (Elsevier) • Published Date: 1st October 2020



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11	Book	<ul style="list-style-type: none"> • Editor(s): Arun Nanda, Sanju Nanda, Tuan Anh Nguyen, Susai Rajendran, Yassine Slimani • Book entitled: “Nanocosmetics: Fundamentals, Applications and Toxicity” • Book Link: https://doi.org/10.1016/C2019-0-00468-2 • Imprint: Elsevier • Published Date: 5th May 2020 • ISBN: 9780128222867
12	Chapter Book	<ul style="list-style-type: none"> • Author(s): Yassine Slimani, Essia Hannachi • Chapter 9: “Magnetic nanosensors and their potential applications”. • Chapter Link: https://doi.org/10.1016/B978-0-12-819870-4.00009-8 • Publication: Elsevier (2020) Pages 143-155
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13	Chapter Book	<ul style="list-style-type: none"> • Author(s): Y. Slimani, E. Hannachi, H. Tombuloglu, S. Güner, M.A. Almessiere, A. Baykal, M.A. Aljafary, E.A. AL-Suhaimi, M. Nawaz, I. Ercan • Chapter 14: “Magnetic nanoparticles based nanocontainers for biomedical application” • Chapter Link: https://doi.org/10.1016/B978-0-12-816770-0.00014-9 • Publication: Elsevier (2020) Pages 229-250
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14	Chapter Book	<ul style="list-style-type: none"> • Author(s): Muhammad Nawaz, Yassine Slimani, Ismail Ercan, Michele K. Lima-Tenório, Ernandes T. Tenório-Neto, Chariya Kaewsaneha, Abdelhamid Elaissari • Chapter 2: “Magnetic and pH-responsive magnetic nanocarriers”. • Chapter link: https://doi.org/10.1016/B978-0-08-101995-5.00002-7 • Publication: Elsevier (2019) Pages 37-85
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15	Book	<ul style="list-style-type: none"> • Author(s): Yassine Slimani • Book title: “Effect of magnetic nanoparticles on superconducting properties of YBCO: Comparative study of Y-123” • Publisher: LAP LAMBERT Academic Publishing • Published Date: 16-11-2017 • ISBN: 978-620-2-07526-8
16	Book	<ul style="list-style-type: none"> • Author(s): Yassine Slimani, Mohamed Ben Salem, Faten Ben Azzouz • Book title: “High critical temperature superconductors YBa₂Cu₃O_y and Y₃Ba₅Cu₈O_y: Comparative study” • Publisher: Presses Académiques Francophones • Published Date: 30-03-2016



• ISBN: 978-3-8416-3962-2

Published Scientific Research Papers in Non-Impacted Journals

#	Name of Investigator(s), Research Title, Publisher and Date of Publication
1	Y. Slimani , E. Hannachi, F. Ben Azzouz, M. Ben Salem, Effect of Sintering Temperature on the Microstructure and Electrical Properties of $Y_3Ba_5Cu_8O_{18}$ Superconducting Material, Nanotechnology in Science and Engineering 1 (2018) 67-75. https://uniquepubinternational.com/wp-content/uploads/2018/10/UPI-NSE-2018-6-Final.pdf
2	Y. Slimani , E. Hannachi, F. Ben Azzouz, M. Ben Salem, Optimization of Synthesis Parameters for the Formation of Promising $Y_3Ba_5Cu_8O_{18}$ Compound, Nanotechnology in Science and Engineering 1 (2018) 11-20. https://uniquepubinternational.com/wp-content/uploads/2018/10/UPI-NSE-2018-3-Final.pdf

Current Research Projects

#	Name of Investigator(s) / Research Title / Funder / Grant No. / Budget	Date
1	Investigator(s): Huseyin Tombuloglu (PI), Ebtessam Al-Suhaimi, Munirah Abdullah Almessiere, Yassine Slimani , Hussein Sabit, Abdulhadi Baykal Title: Development of fast multiplex SARS-COV-2 diagnosis kit Funder: Deanship for Scientific Research (DSR). Awarded 2020 Application No.: Covid19-2020-026-IRMC Budget: 200 000 SAR	February 2020 – Ongoing
2	Investigator(s): Yassine Slimani (PI), Munirah Abdullah Almessiere, Abdulhadi Baykal Title: Perovskite-based nanomaterials for (bio)sensors and biological applications Funder: Deanship for Scientific Research (DSR). Awarded 2020 Application No.: 2020-164-IRMC Budget: 184 400 SAR	March 2020 – Ongoing
3	Investigator(s): Abdulhadi Baykal (PI), Yassine Slimani , Munirah Abdullah Almessiere, Ismail Ercan, Suriya Rehman Title: SrFe _{12-x} RE _x O ₁₉ (hard) / Ni _{0.2} Cu _{0.4} Zn _{0.2} Fe ₂ O ₄ (soft) (RE=Nd, Gd, Er, Tm and Tb) hard/soft magnetic nanofibers: Microwave absorption, magnetic properties and antibacterial activities study Funder: Deanship for Scientific Research (DSR). Awarded 2020 Application No.: 2020-169-IRMC Budget: 165 800 SAR	March 2020 – Ongoing
4	Investigator(s): Ismail Ercan (PI), Yassine Slimani , Abdulhadi Baykal, Munirah Abdullah Almessiere, Fatimah Alahmari, Tarek Kayed Title: One pot synthesis of hard/soft nanoferrites with exchange behaviour via sonochemical approach: Magnetic and electrical investigation Funder: Deanship for Scientific Research (DSR). Awarded 2020 Application No.: 2020-170-IRMC Budget: 150 800 SAR	March 2020 – Ongoing

Completed Research Projects

#	Name of Investigator(s) / Research Title / Funding Source / Application No. / Budget	Date
1	Investigator(s): Yassine Slimani (PI), Munirah Abdullah Almessiere, Faten Ben Azzouz Title: Effect of different form and size of tungsten oxide nano-entities for the improvement of superconducting properties of high temperature superconductor materials for energy applications Funder: Deanship for Scientific Research (DSR) Application No.: 2018-209-IRMC Budget: 200 000 SAR	2018-2020
2	Investigator(s): Yassine Slimani (PI), Abdulhadi Baykal, Faten Ben Azzouz Title: Development basis of a novel magnetometer using superconductor materials. Impact of high-energy ball milling technique Funder: Deanship for Scientific Research (DSR) Application No.: 2017-576-IRMC Budget: 76 000 SAR	2018-2020



3	Investigator(s): Abdulhadi Baykal, Yassine Slimani (P-Col), Ismail Ercan, Huseyin Tombuloglu Title: Synthesis and characterization of rare earth element doped barium and strontium hexaferrites by solid state and sol-gel methods and investigation of its microwave absorber properties Funder: Deanship for Scientific Research (DSR) Application No.: 2017-605-IRMC Budget: 72 000 SAR	2018-2020
4	Investigator(s): Ayhan Bozkurt, Yassine Slimani (Col), Ismail Ercan, Abdulhadi Baykal, Muhammad Nawaz Title: The production of multi-functional hollow silica spheres (HSS) and their use in various bio-applications Funder: Deanship for Scientific Research (DSR) Application No.: 2017-567-IRMC Budget: 80 000 SAR	2018-2020
5	Investigator(s): Yassine Slimani (PI), Essia Hannachi, Faten Ben Azzouz Title: Impact of nano-entities addition on superconducting properties of HTS materials Funder: Institute for Research and Medical Consultations (IRMC). Application No.: 2018-IRMC-S-2 Budget: 105 513 SAR	2018-2020
6	Investigator(s): Yassine Slimani (PI), Essia Hannachi, Faten Ben Azzouz, Abdulhadi Baykal Title: Effect of high-energy ball milling technique on electrical and magnetic properties of various materials Funder: Institute for Research and Medical Consultations (IRMC). Application No.: 2017-IRMC-S-3 Budget: 183 372 SAR	2017-2020

Submitted Research Projects

#	Name of Investigator(s) / Research Title	Funder / Grant No.
1	Title: Ecofriendly multiferroics magnetoelectric nanomaterials and the way to the advanced technology and biomedicine applications Investigator(s): Yassine Slimani (PI), Abdulhadi Baykal, Munirah Abdullah Almessiere	DSR fund Application No. 2021-054-IRMC Submitted: Nov. 2020
2	Title: Investigation of Quantum Dots Addition Impact on Pinning Properties in High Tc Superconductors for Various Energy Applications Investigator(s): Yassine Slimani (PI), Abdulhadi Baykal, Munirah Abdullah Almessiere, Ismail Ercan	Under KACST Review (2018) Application No. 2-18-02-070-0002
3	Title: Synthesis and Characterization of Hard/Soft Ferrite Nanocomposites for Microwave Application Investigator(s): Abdulhadi Baykal, Yassine Slimani (P-Col), Munirah Abdullah Almessiere, Ismail Ercan, Khalid Mijasam Batoo	Under KACST Review (2018) Application No. 2-18-02-070-0001
4	Title: Development of nano-based new generation cancer treatment Investigator(s): Mohammad Azam Ansari, Abdulhadi Baykal, Yassine Slimani (Col), Munirah Abdullah Almessiere, Huseyin Tombuloglu	Under KACST Review (2018) Application No. 2-18-01-070-0001
5	Title: Technological Effects of Quantum Dot Additives on Optoelectronic Properties of Impressive and Innovative Liquid Crystals Investigator(s): Ismail Ercan, Tarek Kayed, Yassine Slimani (Col), Sultan Akhtar, Ahmed Maarouf, Khaled Elsayed	Under KACST Review (2018) Application No. 2-18-01-070-0006.
6	Title: High Energy Density Sulfur Battery for Storage of Solar Energy Investigator(s): Ayhan Bozkurt, Abdulhadi Baykal, Khalil Amine, Yassine Slimani (Col), Munirah Abdullah Almessiere, Ahmed Maarouf, Sultan Akhtar, Muhammad Nawaz, Rabindran Jermy, Faiza Qureshi	Under KACST Review (2018) Application No. 3-18-02-070-0001
7	Title: Manufacturing and development of high-Tc superconductors tapes for industrial applications Investigator(s): Yassine Slimani (PI)	Application No. 2017-529-IRMC Submitted (2017)
8	Title: Azole functional SiO ₂ nanoparticles for anticancer applications	Application No. 2017-646-IRMC Submitted (2017)



Investigator(s): Ayhan Bozkurt, **Yassine Slimani** (P-Col), Ismail Ercan, Ahmed Maarouf, Abdulhadi Baykal, Munirah Abdullah Almessiere, Muhammad Nawaz, Rabindran Jermy

Contribution to Scientific Conferences, Workshops and Symposia

#	Contribution	Authors and Title / Conference Title / Place and Date
1	Oral Presentation	Quentin Nouailhetas, Anjela Koblischka-Veneva, Michael Koblischka, Kévin Berger, Bruno Douine, Yassine Slimani , Essia Hannachi, Magnetic phases in superconducting, polycrystalline bulk FeSe samples, 65th Annual Conference on Magnetism and Magnetic Materials (MMM 2020), United States (Virtual Conference), November 2020
2	Oral Presentation	Michael Koblischka, Anjela Koblischka-Veneva, XianLin Zeng, Essia Hannachi, Yassine Slimani , "Dimensionality and Superconducting Parameters of YBa ₂ Cu ₃ O ₇ Foams". International Conference on Low Temperature Physics and Superconductivity (ICLTPS 2020), Tokyo – Japan, June 11-12, 2020
3	Oral Presentation	Michael Koblischka, Yassine Slimani , Thomas Karwoth, Anjela Koblischka-Veneva, Essia Hannachi, "Microstructure and Excess Conductivity of Bulk, Ag-Added FeSe Superconductors". International Conference on Materials Science and Engineering (ICMSE 2020), Tokyo – Japan, April 23-24, 2020
4	Oral Presentation	H. Gungunes, M.A. Almessiere, Y. Slimani , A. Baykal, "AC susceptibility and Mössbauer analysis of Mn–Y substituted Sr _{1-x} Mn _x Fe _{12-y} Y _y O ₁₉ (0.0 ≤ x=y ≤ 0.5) nanohexaferrites". NanoBio & Med 2018 International Conference, Barcelona – Spain, 20-22 November 2018
5	Oral Presentation	Y. Slimani , E. Hannachi, A. Ekicibil, F. Ben Azzouz, "Microstructure and superconducting properties of YBa ₂ Cu ₃ O _y added with TiO ₂ nanoparticles and nanowires: shape effect". 6th International Conference on Superconductivity and Magnetism (ICSM2018), Antalya - Turkey, April 29-May 04 2018
6	Poster Presentation	E. Hannachi, Y. Slimani , F. Ben Azzouz, M. Zouaoui, M. Ben Salem, "The study of normal state properties of BSCCO superconductors added with different sizes of SiO ₂ nanoparticles". 6th International Conference on Superconductivity and Magnetism (ICSM2018), Antalya – Turkey, April 29-May 04, 2018
7	Oral Presentation	E. Hannachi, Y. Slimani , M. Zouaoui, M. Ben Salem, "The normal state properties of Bi-based superconductor added with different nano-sized SiO ₂ particles". International Conference on Functional Materials (ICFM-2017), Hammamet – Tunisia, 05-08 September 2017
8	Invited Speaker	Yassine Slimani , "Superconducting Properties of High-Tc YBCO Compounds". 4th International Conference on Materials Science and Nanotechnology for Next generation (MSNG-2017), Bosnia – Sarajevo, 28-30 June 2017
9	Oral Presentation	Yassine Slimani , "Impact of Nanoparticles Addition on Superconducting Properties in Y ₃ Ba ₅ Cu ₈ O _y Compounds". 4th International Conference on Materials Science and Nanotechnology for Next generation (MSNG-2017), Bosnia - Sarajevo, 28-30 June 2017
10	Poster Presentation	E. Hannachi, Y. Slimani , M. K. Ben Salem, A. Hamrita, M. Ben Salem, F. Ben Azzouz, "Effect of Y-deficient Y-123 nanoparticles on the transport current density of polycrystalline superconductor YBa ₂ Cu ₃ O _y – Pinning mechanism". 11ème Colloque National de la Recherche en Physique (CNRP 2017), Hammamet – Tunisia, 18-21 March 2017
11	Poster Presentation	Y. Slimani , E. Hannachi, M. K. Ben Salem, A. Hamrita, M. Ben Salem, F. Ben Azzouz, "Effect of the ball milling technique on the superconducting properties in YBa ₂ Cu ₃ O _{7-d} and Y ₃ Ba ₅ Cu ₈ O _{18±x} compounds". Matériaux 2016, Hammamet – Tunisia, 29 October to 01 November 2016
12	Poster Presentation	E. Hannachi, Y. Slimani , M. K. Ben Salem, A. Hamrita, M. Ben Salem, F. Ben Azzouz, "Effect of nanoparticles addition on superconducting properties in polycrystalline compounds". Matériaux 2016, Hammamet – Tunisia, 29 October to 01 November 2016
13	Poster Presentation	Y. Slimani , E. Hannachi, M. K. Ben Salem, A. Hamrita, F. Ben Azzouz, M. Ben Salem. "Impact of nano-CoFe ₂ O ₄ addition on the structural, microstructural and electrical properties in YBa ₂ Cu ₃ O _{7-y} and Y ₃ Ba ₅ Cu ₈ O _{18±y} compounds". 5th Tunisian Crystallographic Meeting International Conference (TCM 5), Hammamet – Tunisia, 20-24 March 2016
14	Poster Presentation	E. Hannachi, Y. Slimani , M. K. Ben Salem, A. Hamrita, F. Ben Azzouz, M. Ben Salem. "Effect of superconducting nano-particles on the structure, microstructure and electrical properties in YBa ₂ Cu ₃ O _y compound". 5th Tunisian Crystallographic Meeting International Conference (TCM 5), Hammamet – Tunisia, 20-24 March 2016



15	Oral Presentation	Y. Slimani , E. Hannachi, M. K. Ben Salem, A. Hamrita, M. Ben Salem, F. Ben Azzouz. "Comparative study of nano-CoFe ₂ O ₄ added YBa ₂ Cu ₃ O _{7-d} and Y ₃ Ba ₅ Cu ₈ O _{18±x} superconductors on excess conductivity". Euro-Mediterranean Meeting on Functionalized Materials (EMM FM-2015), Hammamet – Tunisia, 09-13 September 2015
16	Oral Presentation	E. Hannachi, Y. Slimani , M. K. Ben Salem, A. Hamrita, M. Ben Salem, F. Ben Azzouz. "Effect of silver inclusion on excess conductivity of YBa ₂ Cu ₃ O _y compound embedded by superconducting nano-particles". Euro-Mediterranean Meeting on Functionalized Materials (EMM FM-2015), Hammamet – Tunisia, 09-13 September 2015
17	Oral Presentation	M. K. Ben Salem, E. Hannachi, Y. Slimani , A. Hamrita, M. Ben Salem, F. Ben Azzouz. "The effect of SiO ₂ nano-entities on microstructure and pinning properties in YBa ₂ Cu ₃ O _{7-d} superconductor". Euro-Mediterranean Meeting on Functionalized Materials (EMM FM-2015), Hammamet – Tunisia, 09-13 September 2015
18	Oral Presentation	M. Ben Salem, M. K. Ben Salem, E. Hannachi, Y. Slimani , A. Hamrita, F. Ben Azzouz. "Magneto-conductivity fluctuation studies in YBa ₂ Cu ₃ O _y compound embedded by superconducting nano-particles Y-deficient YBa ₂ Cu ₃ O _y ". Euro-Mediterranean Meeting on Functionalized Materials (EMM FM-2015), Hammamet – Tunisia, 09-13 September 2015
19	Poster Presentation	Y. Slimani , E. Hannachi, M. K. Ben Salem, A. Hamrita, M. Ben Salem, F. Ben Azzouz. "Fluctuation induced magneto-conductivity of Y ₃ Ba ₅ Cu ₈ O _{18±x} and YBa ₂ Cu ₃ O _{7-d} ". 9 th International Workshop on Processing and Applications of Superconducting (RE)BCO Large Grain Materials, Liège – Belgium, September 2-4, 2015
20	Oral Presentation	Y. Slimani , E. Hannachi, M. K. Ben Salem, A. Hamrita, M. Ben Salem, F. Ben Azzouz. "Étude comparative de la magnéto-conductivité électrique dans les composés Y ₃ Ba ₅ Cu ₈ O _{18-δ} et YBa ₂ Cu ₃ O _{7-δ} ". Matériaux 2015, Mahdia – Tunisia, 22-26 March 2015
21	Oral Presentation	E. Hannachi, Y. Slimani , M. K. Ben Salem, A. Hamrita, M. Ben Salem, F. Ben Azzouz. "Étude de l'excès de la conductivité dans les matériaux polycristallins YBa ₂ Cu ₃ O _{7-d} préparés par la technique du broyage énergétique". Matériaux 2015, Mahdia – Tunisia, 22-26 March 2015
22	Oral Presentation	M. K. Ben Salem, E. Hannachi, Y. Slimani , A. Hamrita, M. Ben Salem, F. Ben Azzouz. "Effet des ajouts des nanoparticules et nanofils de SiO ₂ sur l'YBCO: Microstructure et propriétés électriques à l'état normal". Matériaux 2015, Mahdia – Tunisia, 22-26 March 2015
23	Oral Presentation	A. Hamrita, M. K. Ben Salem, E. Hannachi, Y. Slimani , M. Ben Salem, F. Ben Azzouz. "Piégeage des vortex dans le composé supraconducteur YBCO préparé par la technique de broyage énergétique". Matériaux 2015, Mahdia – Tunisia, 22-26 March 2015
24	Oral Presentation	Y. Slimani , E. Hannachi, M. K. Ben Salem, A. Hamrita, M. Ben Salem, F. Ben Azzouz. "Étude comparative des propriétés supraconductrices des composés Y-123 et Y-358 implantés par des nanoparticules magnétiques de CoFe ₂ O ₄ ". 11 ^{ème} Colloque National de la Recherche en Physique (CNRP 2014), Sousse – Tunisia, 20-23 December 2014
25	Oral Presentation	E. Hannachi, Y. Slimani , M. K. Ben Salem, A. Hamrita, M. Ben Salem, F. Ben Azzouz. "Fluctuation de la magnéto-conductivité électrique dans les composés YBCO préparés par broyage énergétique". 11 ^{ème} Colloque National de la Recherche en Physique (CNRP 2014), Sousse – Tunisia, 20-23 December 2014
26	Oral Presentation	A. Hamrita, E. Hannachi, Y. Slimani , M. K. Ben Salem, M. Ben Salem, F. Ben Azzouz. "Impact du broyage énergétique sur les propriétés microstructurales, électrique et magnétique des supraconducteurs à base d'yttrium". 11 ^{ème} Colloque National de la Recherche en Physique (CNRP 2014), Sousse – Tunisia, 20-23 December 2014
27	Oral Presentation	M. K. Ben Salem, A. Hamrita, E. Hannachi, Y. Slimani , M. Ben Salem, F. Ben Azzouz. "Effet des nanoparticules de SiO ₂ sur la structure, microstructure et sur les propriétés de piégeage des vortex dans le composé YBCO". 11 ^{ème} Colloque National de la Recherche en Physique (CNRP 2014), Sousse – Tunisia, 20-23 December 2014
28	Poster Presentation	Y. Slimani , E. Hannachi, M. K. Ben Salem, A. Hamrita, M. Zouaoui, F. Ben Azzouz, M. Ben Salem. "Energy Dissipation Mechanisms in Polycrystalline Superconductor Y ₃ Ba ₅ Cu ₈ O _y ". 4th International Conference on Superconductivity and Magnetism Congress (ICSM 2014), Antalya – Turkey, 27 April to 02 May 2014
29	Poster Presentation	E. Hannachi, Y. Slimani , M. K. Ben Salem, A. Hamrita, M. Zouaoui, F. Ben Azzouz, M. Ben Salem. "Effect of the ball milling technique on the transport current density of polycrystalline superconductor YBa ₂ Cu ₃ O _{7-y} - pinning mechanism". 4th International Conference on Superconductivity and Magnetism Congress (ICSM 2014), Antalya – Turkey, 27 April to 02 May 2014



30	Poster Presentation	A. Hamrita, E. Hannachi, Y. Slimani , M. K. Ben Salem, M. Zouaoui, F. Ben Azzouz, M. Ben Salem. "Impact of planetary ball milling parameters on the structure microstructure and properties of YBCO bulk superconductor". 4th International Conference on Superconductivity and Magnetism Congress (ICSM 2014), Antalya – Turkey, 27 April to 02 May 2014
31	Oral Presentation	Y. Slimani , E. Hannachi, M. K. Ben Salem, A. Hamrita, M. Zouaoui, M. Ben Salem, F. Ben Azzouz. "Phénomènes de dissipation d'énergie dans le supraconducteur $Y_3Ba_5Cu_8O_{7-y}$ ". Young Researchers Days 'workshop' in Physics (JJCP 2014), Faculty of Sciences of Tunis – Tunisia, 26 February to 01 March 2014
32	Oral Presentation	E. Hannachi, Y. Slimani , M.K. Ben Salem, A. Hamrita, M. Zouaoui, M. Ben Salem, F. Ben Azzouz. "Effet du broyage énergétique sur la densité de courant électrique de transport du composé $YBa_2Cu_3O_{7-y}$ - Mécanisme de piégeage". Young Researchers Days 'workshop' in Physics (JJCP 2014), Faculty of Sciences of Tunis – Tunisia, 26 February to 01 March 2014
33	Poster Presentation	Y. Slimani , M. K. Ben Salem, E. Hannachi, A. Hamrita, L. Bessais, M. Ben Salem, F. Ben Azzouz. "Effet de nanofil de SiO_2 sur la structure, microstructure et sur les propriétés de piégeage des vortex dans le composé YBCO". First North African School and Workshop on electron microscopy « $\mu M-2013$ », IPEST, La Marsa – Tunisia, 01-13 September 2013
34	Poster Presentation	E. Hannachi, Y. Slimani , M. K. Ben Salem, A. Hamrita, M. Ben Salem, F. Ben Azzouz. "Phénomènes de dissipation d'énergie dans le composé YBCO élaboré par broyage énergétique". First North African School and Workshop on electron microscopy « $\mu M-2013$ », IPEST, La Marsa – Tunisia, 01-13 September 2013
35	Poster Presentation	M. K. Ben Salem, Y. Slimani , E. Hannachi, A. Hamrita, M. Ben Salem, F. Ben Azzouz. "Propriété microstructurale et mécanisme de conduction électrique de l'état normal des supraconducteurs à base de bismuth implantés par des nanoparticules magnétiques". First North African School and Workshop on electron microscopy « $\mu M-2013$ », IPEST, La Marsa – Tunisia, 01-13 September 2013
36	Poster Presentation	3rd International Advances in Applied Physics and Material Science Congress (APMAS 2013), Antalya – Turkey, 24 to 28 April 2013
37	Poster Presentation	M. K. Ben Salem, E. Hannachi, Y. Slimani , A. Hamrita, L. Bessais, F. Ben Azzouz, M. Ben Salem. "Effect of nanowires SiO_2 on superconducting properties of $YBa_2Cu_3O_{7-\delta}$ bulks". 3rd International Advances in Applied Physics and Material Science Congress (APMAS 2013), Antalya – Turkey, 24 to 28 April 2013
38	Oral Presentation	M. K. Ben Salem, A. Hamrita, Y. Slimani , E. Hannachi, F. Ben Azzouz, M. Ben Salem. "Étude des propriétés électriques à l'état normal des supraconducteurs à base de bismuth implantés par des nanoparticules magnétiques de $CoFe_2O_4$ ". Young Researchers Days "workshop" in Physics (JJCP 2013), Rimel – Bizerte – Tunisia, 10 and 11 April 2013
39	Poster Presentation	Y. Slimani , F. Ben Azzouz, M. Ben Salem. "Elaboration of $Y_3Ba_5Cu_8O_{18}$ compound - Superconducting properties". International Conference on Innovative Materials and Techniques (CIMT-2012), Hammamet – Tunisia, 12 to 15 November 2012

Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Mechanical Point	--	Lectures/Tutorials and Labs
2	General Physics 1	--	Lectures/Tutorials and Labs
3	General Physics 3	--	Lectures/Tutorials
4	Optics	--	Lectures/Tutorials and Labs
5	Waves	--	Lectures/Tutorials
6	Thermodynamics	--	Lectures and Labs
7	Electrostatics and Magnetostatics	--	Lectures/Tutorials
8	Electromagnetism	--	Lectures/Tutorials
9	Electricity	--	Labs



Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)

1	Mechanical Point: This course includes the Fundamental concepts of Newtonian mechanics and waves considering, Cartesian, cylindrical and spherical coordinates Systems.
2	General Physics 1: The course covers the basics concepts of mechanics and properties of matter including the topics: Physical quantities, units, coordinates, and dimensions. Vectors and their characteristics. Kinematic equations, and laws of motion including Newton's laws. Work and energy, momentum and impulse, Oscillations, Kinetic energy theorem as well as the principle of energy conservation. Circular Motion, the Planets, and Gravity. Rotational Motion of Solid Objects. Pressure, density and fundamentals of fluid mechanics, law of Archimedes and viscosity, Bernoulli's equation and its applications.
3	General Physics 3: It is an introductory course for more advanced courses in thermodynamics and waves. It presents the basics of heat and thermal energy in a way of measurements, interactions, ways of transfer and applications. It also presents the simple harmonic motion and the sinusoidal, superposition of sinusoidal motion and waves.
4	Optics: This course includes Snell-Descartes laws, Gauss conditions, Geometric construction of light ray, Dioptries, Lens, Mirrors, Optical fibers, Optics instruments (eye, microscope, ...), experimental determination of the focal distance of a lens.
5	Waves: The objective of this course is to familiarize students with the principles of periodic motions and waves and to appreciate their applications in life and in technical equipment. Topics include damped harmonic oscillation, waves, interference and superposition of waves, sound waves, electromagnetic waves and their properties.
6	Thermodynamics: To teach basic principles of classical thermodynamics. The first and second laws of thermodynamics are applied to simple gas and vapor power and refrigeration cycles. The student should be able to analyze simple to complex thermodynamic problems.
7	Electrostatics and Magnetostatics: The objective of this courses is to covers the basic concepts and the theoretical foundations of electric charges at rest and in motion. It provides a thorough introduction to electrostatics, magnetostatics and electrodynamics. We will emphasize the inter-relationship between Electricity and Magnetism, culminating in the development of Maxwell's Equations. The examples and problems selected for the course give students the necessary knowledge and skills to read and analyze scientific data with a proper understand.
8	Electromagnetism: The second part of courses includes the basic concepts and the theoretical foundations of Maxwell's Equations in matter and electromagnetic waves. Topics include electrical fields in matter, Magnetic fields in matter, Electrodynamics, Maxwell's equations, conservation laws, Electromagnetic wave propagation, Potentials and Fields, Radiation.

Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Superconductivity	--	Lectures and Labs
2	Superconductor Materials	MSNE823	Lectures + Labs
3	Crystallography and Properties of Materials	--	Lectures
4	Seminars	--	Lectures

Brief Description of Postgraduate Courses Taught: (Course Title – Code: Description)

1	Superconductivity (or Superconductor Materials): The students will be able at the end of course to differ between good conductors, perfect conductors and superconductors, to describe different theories of superconductivity and their ranges of validity, to explain type-I and type-II superconductors, to discuss vortices and their properties in a superconductor especially concerning energy losses, to discuss defects and their role in flux pinning of vortices, to apply Bean critical state model, Josephson junctions, to describe various applications of superconductivity (superconducting wires, magnets, Maglev trains, SQUIDS, etc.), to elaborate famous superconducting materials by different methods and finally to deal with different characterization techniques, such as: X-ray Diffraction (XRD), Scanning and Transmission Electron Microscopy (SEM and TEM) coupled by Energy Dispersive X-ray Spectroscopy (EDXS), electrical (resistivity, current density...) and magnetic (magnetization, ac susceptibility...) measurements...
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2	Crystallography and Properties of Material: This course presents the basic concepts needed to understand the crystal structure of materials and the knowledge of physical properties of solid state such as dielectric, magnetic, semiconductor and superconductor.
3	Conferences and Seminars: The main objective of conference is to develop the student's ability to conduct investigation, analysis and critical evaluation in both theoretical and experimental researches based on their skills in physics. We have considered several topics such as Electron microscope, Superconductivity, Nanomaterials, X-ray diffraction, Energy applications, Medical physics...

Research Supervision of Master and/or PhD Thesis

#	Degree Type	Name of Student / Proposal Title	Institution	Date
1	MSc Nanotechnology (Co-supervision)	Tahani Mohammed Alfared: Biological applications of barium titanate based magnetoelectric nanocomposites	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia	Ongoing 2021
2	Master (Co-supervision)	Phase diagram of Yttrium-based superconductors: Effect of SiO ₂ nanoparticles addition	Faculty of Sciences of Bizerte – University of Carthage, Tunisia	2016 Completed
3	Master (Co-supervision)	Impact of the nature of nanoparticles synthesized by hydrothermal method on the electrical properties of Bismuth-based compound	Faculty of Sciences of Bizerte – University of Carthage, Tunisia	2016 Completed

Research Training Supervision of various students' level

#	Type	Name of Trainee	Institution	Date
1	Summer Training	<ul style="list-style-type: none"> • Areej Hadi Al-mebti (1 published Abstract + Papers in Progress) • Gaet AlFalah (1 published Abstract + Papers in Progress) • Latifa Fahd AlOusi (1 published Abstract + Papers in Progress) • Nouf Essa Aldossary (1 published Abstract + Papers in Progress) • Rahaf Braek Alshamrani (1 published Abstract + Papers in Progress) • Moustafa M. Aouna (1 published Abstract + Papers in Progress) • Ahmed Taha Okasha (1 published Abstract + Papers in Progress) • Ahad Alshahrani (1 published Abstract + Papers in Progress) • Rawan Ali Alkhathaami (1 published Abstract + Papers in Progress) • Wejdan Alhajri (1 published Abstract + Papers in Progress) 	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia	2020
2	Volunteer Program	Fatima Omar Al-qwairi (2 Publications + others In Progress)	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia	Ongoing 2019
3	Volunteer Program	Fatimah Aldakheel (4 Publications)	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia	2019
4	Volunteer Program	Sarah Aldakhil (1 Publication)	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia	2019



5	Volunteer Program	Hadeer S. El Sayed (12 Publications)	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia	2018-2019
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Editorial Board and Reviewer

Editorial Board

#	Journal	Link to journal
1	Guest Editor - Special Issue "Superconducting Nanostructures and Materials" in Nanomaterials (MDPI, Q1, IF = 4.324)	https://www.mdpi.com/journal/nanomaterials/special_issues/superconducting_nanostructures#editors
2	Current Nano-Toxicity and Prevention	https://benthamscience.com/journals/current-nanotoxicity-and-prevention/editorial-board/
3	Nanotechnology in Science and Engineering (Unique Pub International)	https://uniquepubinternational.com/upi-journals/nanotechnology-science-engineering-nse/editorial-board-nse/
4	Imaging and Radiation Research (EnPress Publisher)	http://systems.enpress-publisher.com/index.php/IRR/about/editorialTeam
5	Big Data Analytics for Healthcare (Whioce Publishing Pte. Ltd.)	http://ojs.whioce.com/index.php/BDAH/about/editorialTeam
6	SCIREA Journal of Materials	http://www.scirea.org/journal/EditorialBoard?JournalID=43000#5064
7	SCIREA Journal of Physics	http://www.scirea.org/journal/EditorialBoard?JournalID=14000#5064

Reviewer

Journals

- Nanoscale Advances (RSC)
- Composites Part B: Engineering (Elsevier)
- Journal of Alloys and Compounds (Elsevier)
- Journal of Materials Research and Technology (Elsevier)
- Materials Letters (Elsevier)
- Ceramics International (Elsevier)
- Nanoscale (Royal Society Chemistry)
- Journal of Materials Science: Materials in Electronics (Springer)
- Journal of Superconductivity and Novel Magnetism (Springer)
- Rare Metals (Springer)
- Journal of Physics and Chemistry of Solids (Elsevier)
- Journal of Magnetism and Magnetic Materials (Elsevier)
- Materials Chemistry and Physics (Elsevier)
- Cryogenics (Elsevier)
- Materials & Design (Elsevier)
- Diamond & Related Materials (Elsevier)
- Materials Characterization (Elsevier)
- IEEE Transactions on Magnetics (IEEE)
- Crystal Research & Technology (Wiley)
- Condensed Matter (MDPI)
- Physica B: Condensed Matter (Elsevier)
- Journal of Rare Earths (Elsevier)
- Metals and Materials International (Springer)
- Rare Metals (Springer)
- Journal of Electronic Materials (Springer)
- Journal of Molecular Structure (Elsevier)














- Inorganic Chemistry Communications (Elsevier)
- Defense Technology (Elsevier)
- Materials Today: Proceedings (Elsevier)
- Chemical Data Collections (Elsevier)
- Results in Physics (Elsevier)
- Journal of Solid State Chemistry (Elsevier)
- Results in Engineering (Elsevier)
- Results in Chemistry (Elsevier)
- Defence Technology (Elsevier)
- Journal of Drug Delivery Science and Technology (Elsevier)
- Advanced Materials Letters (VBRI Press)
- Plant Physiology and Biochemistry (Elsevier)
- Waste and Biomass Valorization (Springer)
- Environmental Nanotechnology, Monitoring and Management (Elsevier)
- World Neurosurgery (Elsevier)
- Current Nanotoxicity and Prevention (Bentham)
- Journal of Advances in Physics (cirworld)
- Cancer Biotherapy and Radiopharmaceuticals (Libertpub)
- The 7th Global Conference on Materials Science and Engineering (CMSE2018), China
- The 3rd International Conference on Material Strength and Applied Mechanics (MSAM 2020)

Professional, Research and Media Websites

Professional Websites

#	Link
IRMC – IAU University	https://www.iau.edu.sa/en/administration/centers/institute-for-research-and-medical-consultations-irmc/staff/researchers

Research Websites

#	Account	Link
	Google Scholar	https://scholar.google.fr/citations?user=vRCEAgQAAAAJ&hl=en
	Researchgate	https://www.researchgate.net/profile/Yassine_Slimani2
	Scopus Author ID	https://www.scopus.com/authid/detail.uri?authorId=57105963800
	Bublons	https://publons.com/a/1396127
	ORCID	http://orcid.org/0000-0002-2579-1617
	ResearcherID	http://www.researcherid.com/rid/E-5054-2017
	Mendeley	https://www.mendeley.com/profiles/yassine-slimani2/
	Semantic Scholar	https://www.semanticscholar.org/author/Yassine-Slimani/51336345?sort=year
	Academia	https://iabfu.academia.edu/YassineSlimani
	Kudos	https://www.growkudos.com/profile/yassine_slimani
	Loop	https://loop.frontiersin.org/people/1035694/overview



Social Media Websites

#	Account	Link
	LinkedIn	http://www.linkedin.com/in/yassine-slimani-86b331a9
	Facebook	https://www.facebook.com/people/Yassine-Slimani/100009415240775
	Twitter	https://twitter.com/SlimaniYassine0
	YouTube	https://www.youtube.com/channel/UCVOR8JwRcsBaO4dQ_iK9gWQ

Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	Characterization Software: Origin, Full-Proof, Match, HighScore, Photoshop ...
2	Programming Software: Pascal, Fortran, MATLAB ...
3	Treatment: Word, Excel, PowerPoint ...

Last Update

April 28, 2021