



# Yassine Abdelhamid Slimani

**Associate Professor & Senior Researcher**



## Personal Data

**Nationality** | Tunisian

**Date of Birth** | October 01, 1988

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

**Official IAU Email** | [yaslimani@iau.edu.sa](mailto:yaslimani@iau.edu.sa)

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## Short Biography

I am an Associate Professor and Senior Researcher with more than 10 years of experience in research and education in Materials Physics/Science and Applications. I am a very versatile and inquisitive scientist, which has made my research interests very broad, covering the design and development of different kinds of (nano)materials and (nano)composites for diverse applications. My main research interests have revolved around designing, developing, and creating superconductors, advanced nanomaterials & nanocomposites, magnetic (nano)materials, advanced ceramics, magnetoelectric multiferroics composites, dielectric materials, semiconductors, energy storage systems (supercapacitors, batteries, fuel cells), (photo)catalysts, microwave absorbing materials, etc. The research works integrate the structure of novel materials with their physicochemical properties (magnetic, electrical, optical, mechanical, and thermal), bridging the underlying nanoscopic phenomena to macroscopic behaviors. I am mainly interested in studying the potential applications of these materials in energy (production like hydrogen energy production, transport, and storage), environmental remediation, technology, and biology/biomedicine fields.

**Citations: 14757**

**H-index: 75**

**i10-index: 274**

## Research Links



## 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

## Appointments

Job Rank	Place and Address of Work	Date
Member of Safety and Occupational Health Committee	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Saudi Arabia	January 2024 - Present
Associate Professor & Senior Researcher	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Saudi Arabia	March 2021 - Present
Chair of the Quality and Academic Accreditation Committee	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Saudi Arabia	April 2021 - Present

Member of the Program Advisory Committees for MSc of Science in Nanotechnology & MSc of Science in Biotechnology	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Saudi Arabia	2023
Member of the IRMC Council Committee	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Saudi Arabia	2021 - 2023
Member of Graduate Studies Committee	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Saudi Arabia	October 2021 – September 2023
Chair of the Recruitment Evaluation Committee	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Saudi Arabia	January 2020 - Present
Member of Training and Development Committee	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Saudi Arabia	Sept. 2019 – August 2020
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 - 2016

### Most Important Scientific Achievements

#	Achievement	Number
1	<b>Published papers</b> in high-impacted peer-reviewed international journals	> 370 Papers
2	Published <b>books and book chapters</b> (Elsevier, Springer, CRC Press, etc.)	5 Books and 28 Chapters
3	<b>Patents</b> of our innovations	7 Granted, 14 Published, and 5 Filed U.S. Patents
4	Participation in numerous international and national scientific <b>conferences</b> by making different presentations and sharing many sessions (Plenary Talk, Keynote Speaker, Oral Presentation, Poster Presentation).	> 50 Conferences and Workshops
5	Involvement in many international and national research <b>projects</b> (as principal investigator and co-investigator)	2 Ongoing Projects 9 Completed Projects
6	<b>“WORLD'S TOP 2% RANKING SCIENTISTS for long career”</b> - International Ranking performed by Stanford University.	2021, 2022, 2023
7	<b>“WORLD'S TOP 2% RANKING SCIENTISTS for a Single Year”</b> - International Ranking	2020, 2021, 2022, 2023
8	<b>“Top 10 Highly Published Faculty”</b> in our university	2018, 2019, 2020, 2021
9	<b>“Top 10 Highly Cited Faculty”</b> in our university	2018, 2019, 2020, 2021
10	<b>“Top Peer Review 2019” Award</b> as the top 1% of reviewers in Physics - Powered by Publons and Web of Science Groups	2019
11	<b>“Young Scientist in Nanotechnology” Award</b> - VIRA 2018	2018
12	<b>Guest Editor</b> for: <ul style="list-style-type: none"> <li>• <b>Nanomaterials</b> (MDPI, Q1, IF = 5.3): Special Issue <i>“Structural, Magnetic, and Catalytic Evaluation of Ferrite-Based Nanomaterials and Nanocomposites”</i></li> <li>• <b>Nanomaterials</b> (MDPI, Q1, IF = 5.3): Special Issue <i>“Progress in Photocatalytic Nanomaterials and Their Uses in Environmental Remediation and Energy Production”</i></li> <li>• Research Topic <i>“Advanced Nanotechnologies for Electrochemical Energy Conversion and Storage”</i> in <b>Frontiers in Energy Research</b> (IF = 4.008)</li> <li>• <b>Nanomaterials</b> (MDPI, Q1, IF = 5.076): Special Issue <i>“Superconducting Nanostructures and Materials”</i></li> </ul>	2023 2023 2022 2022
	<b>Review Editor</b> for: <ul style="list-style-type: none"> <li>• Frontiers in Chemistry</li> <li>• Frontiers in Physics</li> </ul>	2023



13	<b>Reviewer</b> for many well-known reputed journals (like Elsevier, Springer, Wiley, RSC, AIP, MDPI, ACS, IEEE, IOP Science, De Gruyter, World Scientific Publishing, Hindawi, Taylor & Francis, Frontiers, Bentham, etc.).	> 1200 Peer Reviews
14	<b>Examiner/Evaluator</b> of several Research Master and PhD Thesis, as well as national and international R&D projects	> 20 (from Saudi Arabia, Serbia, India, Tunisia, Chile, Pakistan, etc.)
15	<b>Organizing member</b> of local and international conferences	Saudi Arabia, India, Tunisia
16	<b>Supervising</b> Master and/or PhD Theses as well as providing several <b>training</b> courses and workshops	> 30 Students and Trainees
17	<b>Teaching</b> diverse courses in the undergraduate and postgraduate programs	> 8 Years
18	Postgraduate and undergraduate <b>students co-authored</b> on journal articles, book chapters, and abstracts	> 30 Students

### Honors and Awards

#	Honors and Awards	Date
1	<b>"WORLD'S TOP 2% RANKING SCIENTISTS for long career"</b> International Ranking. The databases were performed by Stanford University and released in 2023. Source: <a href="https://doi.org/10.17632/btchxktzyw.6">https://doi.org/10.17632/btchxktzyw.6</a>	4 <sup>th</sup> Oct 2023
2	<b>"WORLD'S TOP 2% RANKING SCIENTISTS for the Year 2022"</b> International Ranking. The databases were performed by Stanford University and released in 2023. Source: <a href="https://doi.org/10.17632/btchxktzyw.6">https://doi.org/10.17632/btchxktzyw.6</a>	4 <sup>th</sup> Oct 2023
3	<b>Letter of Acknowledgment</b> provided by King Abdulaziz and his Companions Foundation for Giftedness and Creativity "Mawhiba" organization after training and forming talented students who received national and international prizes in scientific fields.	Jun 2023
4	My Mawhiba student "Rand Hani Al-Ahmari" trained under my supervision won two prizes: ★ <b>Special/Outstanding International Award from "The YALE Science &amp; Engineering Association"</b> . ★ <b>Third Rank for the Grand Prizes from King Abdulaziz and his Companions Foundation for Giftedness and Creativity "Mawhiba"</b> .	Feb 2023
5	My Mawhiba student "Rand Hani Al-Ahmari" trained at IRMC under my supervision has been selected in the <b>Top 40 students nominated for the participation in ISEF Olympiad 2023</b> .	Feb 2023
6	<b>"High performance in Research at IRMC in 2022"</b> . Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University, Dammam - Saudi Arabia	30 <sup>th</sup> Jan 2023
7	<b>"High Performance in Administration Committee at IRMC in 2022"</b> . Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University, Dammam - Saudi Arabia	30 <sup>th</sup> Jan 2023
8	<b>"WORLD'S TOP 2% RANKING SCIENTISTS for long career"</b> International Ranking. The databases were performed by Stanford University and released in 2022. Source: <a href="https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/4">https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/4</a>	10 <sup>th</sup> Oct 2022
9	<b>"WORLD'S TOP 2% RANKING SCIENTISTS for the Year 2021"</b> International Ranking. The databases were performed by Stanford University and released in 2022. Source: <a href="https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/4">https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/4</a>	10 <sup>th</sup> Oct 2022



10	<b>“Highly Cited Paper”</b> in <b>“Nanomaterials”</b> journal (MDPI, IF = 5.076, ISSN 2079-4991): “Correlation Between Composition and Electrodynamics Properties in Nanocomposites Based on Hard/Soft Ferrimagnetics with Strong Exchange Coupling”.	18 <sup>th</sup> May 2022
11	<b>“WORLD'S TOP 2% RANKING SCIENTISTS for long career”</b> International Ranking. The databases were performed by Stanford University and released in 2021. Source: <a href="https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/3">https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/3</a>	19 <sup>th</sup> Oct 2021
12	<b>“WORLD'S TOP 2% RANKING SCIENTISTS for the Year 2020”</b> International Ranking. The databases were performed by Stanford University and released in 2021. Source: <a href="https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/3">https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/3</a>	19 <sup>th</sup> Oct 2021
13	Selection of one of my published paper by <b>RSC Advances journal</b> for the RSC Advances 10 <sup>th</sup> Anniversary collection focusing on <b>Nanostructures</b> because of high number of views/downloads, or high number of citations, or providing valuable advances for further research.	17 <sup>th</sup> Aug 2021
14	<b>“Top 10 Highly Published Faculty in IAU - 2020”</b> in the University President’s List of <b>Distinguished Researchers – 2020</b> . Imam Abdulrahman Bin Faisal University, Dammam - Saudi Arabia.	5 <sup>th</sup> May 2021
15	<b>“Top 10 Highly Cited Faculty in IAU - 2020”</b> in the University President’s List of <b>Distinguished Researchers – 2020</b> . Imam Abdulrahman Bin Faisal University, Dammam - Saudi Arabia.	5 <sup>th</sup> May 2021
16	<b>“WORLD'S TOP 2% RANKING SCIENTISTS for the Year 2019”</b> - International Ranking. The databases were performed by Stanford University. Sources - PLOS Biology: <a href="https://doi.org/10.1371/journal.pbio.3000918">https://doi.org/10.1371/journal.pbio.3000918</a> & <a href="https://dx.doi.org/10.17632/btchxktzyw">https://dx.doi.org/10.17632/btchxktzyw</a>	Nov 2020
17	<b>1<sup>st</sup> place for the oral presentation during the activities of summer training program at IRMC</b> for my student “Latifa Fahad AlOusi” who trained at IRMC under my supervision.	July 2020
18	<b>“Top Peer Review 2019” Award</b> 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 <sup>th</sup> Sep 2019
19	<b>“The Best Achievement in Publication” Award</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University, Dammam - Saudi Arabia.	30 <sup>th</sup> Aug 2018
20	<b>“Young Scientist in Nanotechnology” Award</b> Under the Science Discipline. 4th Venus International Research Awards - VIRA 2018, India	28 <sup>th</sup> Jun 2018
21	<b>Plenary or invited presentations</b>	Many*

### Language Proficiency

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



## Scientific Productions

### Patents

#	Name of Inventor(s) / Research Title / Publisher	Application No. / Date
1	<b>Inventor(s):</b> <u>Yassine Slimani</u> , Firdos Alam Khan <b>Title:</b> Method for making VI-period and f-block elements-substituted zinc oxide nanoparticles (Er/Tb co-doped ZnO nanoparticles) for treating cancer cells	<b>United States Patent</b> <b>(Submitted)</b> <b>Submission Date:</b> 08/08/2024
2	<b>Inventor(s):</b> <u>Yassine SLIMANI</u> , Munirah Abdullah ALMESSIERE, Abdulhadi BAYKAL <b>Title:</b> Method For Forming Rare Earth-Substitute Nanocomposite <i>Continuation patent: Method For Forming A Magnetolectric Nanocomposite</i>	<b>United States Patent</b> <b>Ref.: 554315US (Filed)</b> <b>Application No.:</b> US 18/791,804 <b>Filling Date:</b> 01/08/2024
3	<b>Inventor(s):</b> Guzin TOMBULOGLU, Heseyin TOMBULOGLU, <u>Yassine Slimani</u> , Munirah ALMESSIERE, Abdulhadi BAYKAL <b>Title:</b> Manganese zinc spinel ferrite (Mn <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> ) nanoparticles for the growth promotion of plants	<b>United States Patent</b> <b>Ref.: 548556US (Filed)</b> <b>Application No.:</b> US 18/480,993 <b>Filling Date:</b> 04/10/2023
4	<b>Inventor(s):</b> <u>Yassine Slimani</u> , Munirah A. Almessiere, Essia Hannachi, Abdulhadi Baykal <b>Title:</b> Composite Ceramics with Low Dielectric Losses	<b>United States Patent</b> <b>Ref.: 547361US (Filed)</b> <b>Application No.:</b> US 18/475,843 <b>Filling Date:</b> 27/09/2023
5	<b>Inventor(s):</b> <u>Yassine Slimani</u> , Munirah A. Almessiere, Essia Hannachi, Abdulhadi Baykal <b>Title:</b> CERIUM AND SAMARIUM CO-DOPED TiO <sub>2</sub> NANOPARTICLES-BASED PHOTOCATALYTIC COMPOSITION FOR DYE DEGRADATION	<b>United States Patent</b> <b>Ref.: 547362US (Filed)</b> <b>Application No.:</b> US 18/475,702 <b>Filling Date:</b> 27/09/2023
6	<b>Inventor(s):</b> Essia Hannachi, <u>Yassine Slimani</u> , Muhammad Nawaz, Munirah A. Almessiere, Abdulhadi Baykal <b>Title:</b> PHOTOCATALYST FOR THE DEGRADATION OF METHYL ORANGE DYE <i>Subject: Method for preparing Yb/Ce co-doped nanomaterials and their photocatalytic activities</i>	<b>United States Patent</b> <b>Ref.: 546199US (Filed)</b> <b>Application No.:</b> US 18/185,106 <b>Filling Date:</b> 16/03/2023
7	<b>Inventor(s):</b> <u>Yassine SLIMANI</u> , Munirah Abdullah ALMESSIERE, Abdulhadi BAYKAL <b>Title:</b> METHOD FOR FORMING A MAGNETOELECTRIC NANOCOMPOSITE	<b>United States Patent</b> <b>Type:</b> Application <b>Pub. No.:</b> US 2024/0242865 A1 <b>Publication Date:</b> 18/07/2024 <b>Application No.:</b> US 18/351,519 <b>Filling Date:</b> 13/07/2023
8	<b>Inventor(s):</b> <u>Yassine SLIMANI</u> , Munirah Abdullah ALMESSIERE, Faten Ben AZZOUZ <b>Title:</b> SYNTHESIS METHOD FOR A YBCO SUPERCONDUCTING MATERIAL <a href="https://www.freepatentsonline.com/y2024/0224818.html">https://www.freepatentsonline.com/y2024/0224818.html</a> <a href="https://patentscope.wipo.int/search/en/detail.jsf?docId=US432856214">https://patentscope.wipo.int/search/en/detail.jsf?docId=US432856214</a>	<b>United States Patent</b> <b>Type:</b> Application <b>Pub. No.:</b> US 2024/0224818 A1 <b>Publication Date:</b> 04/07/2024 <b>Application No.:</b> US 18/600,835 <b>Filling Date:</b> 11/03/2024
9	<b>Inventor(s):</b> <u>Yassine SLIMANI</u> <b>Title:</b> METHOD FOR MAKING SUPERCONDUCTING COIL FOR MAGNETIC RESONANCE IMAGING <a href="https://www.freepatentsonline.com/y2024/0092698.html">https://www.freepatentsonline.com/y2024/0092698.html</a> <a href="https://patentscope.wipo.int/search/en/detail.jsf?docId=US425878422">https://patentscope.wipo.int/search/en/detail.jsf?docId=US425878422</a>	<b>United States Patent</b> <b>Type:</b> Application <b>Pub. No.:</b> US 2024/ 0092698 A1 <b>Publication Date:</b> 21/03/2024 <b>Application No.:</b> US 18/520,624 <b>Filling Date:</b> 28/11/2023
10	<b>Inventor(s):</b> <u>Yassine SLIMANI</u> , Munirah Abdullah ALMESSIERE, Abdulhadi BAYKAL <b>Title:</b> MAGNETOELECTRONIC DEVICE COMPRISING FERRITE-BASED NANOCOMPOSITE <a href="https://www.freepatentsonline.com/y2024/0096532.html">https://www.freepatentsonline.com/y2024/0096532.html</a> <a href="https://patentscope.wipo.int/search/en/detail.jsf?docId=US425882681">https://patentscope.wipo.int/search/en/detail.jsf?docId=US425882681</a>	<b>United States Patent</b> <b>Type:</b> Application <b>Pub. No.:</b> US 2024/0096532 A1 <b>Publication Date:</b> 21/03/2024 <b>Application No.:</b> US 18/520,645 <b>Filling Date:</b> 28/11/2023
11	<b>Inventor(s):</b> <u>Yassine SLIMANI</u> , Munirah Abdullah ALMESSIERE, Faten Ben AZZOUZ <b>Title:</b> Solid State Synthetic Method for Semiconductor Material	<b>United States Patent</b> <b>Type:</b> Application <b>Pub. No.:</b> US 2024/0099162 A1



	<p><a href="https://www.freepatentsonline.com/y2024/0099162.html">https://www.freepatentsonline.com/y2024/0099162.html</a>  <a href="https://patentscope.wipo.int/search/en/detail.jsf?docId=US425885603">https://patentscope.wipo.int/search/en/detail.jsf?docId=US425885603</a></p>	<p><b>Publication Date:</b> 21/03/2024  <b>Application No.:</b> US 18/364,497  <b>Filing Date:</b> 03/08/2023</p>
12	<p><b>Inventor(s):</b> <u>Yassine Slimani</u>, Sarah Awwadh Alotaibi, Munirah Abdullah Almessiere  <b>Title:</b> SUPERCONDUCTING MATERIAL AND METHOD OF PREPARATION THEREOF  <a href="https://www.freepatentsonline.com/y2024/0043280.html">https://www.freepatentsonline.com/y2024/0043280.html</a>  <a href="https://patentscope.wipo.int/search/en/detail.jsf?docId=US421382702">https://patentscope.wipo.int/search/en/detail.jsf?docId=US421382702</a></p>	<p><b>United States Patent</b>  <b>Type:</b> Application  <b>Pub. No.:</b> US 2024/0043280 A1  <b>Publication Date:</b> 08/02/2024  <b>Application No.:</b> US 17/882,139  <b>Filing Date:</b> 05/08/2022</p>
13	<p><b>Inventor(s):</b> <u>Yassine Slimani</u>, Munirah Abdullah Almessiere, Abdulhadi Baykal  <b>Title:</b> MAGNETOELECTRIC MULTIFERROIC NANOCOMPOSITE  <a href="https://www.freepatentsonline.com/11869693.html">https://www.freepatentsonline.com/11869693.html</a>  <a href="https://patentscope.wipo.int/search/en/detail.jsf?docId=US378325689">https://patentscope.wipo.int/search/en/detail.jsf?docId=US378325689</a></p>	<p><b>United States Patent</b>  <b>Type:</b> Grant  <b>Grant No.:</b> US 11,869,693 B2  <b>Grant Date:</b> 09/01/2024  <b>Application No.:</b> US 17/314,087  <b>Filing Date:</b> 07/05/2021</p>
14	<p><b>Inventor(s):</b> <u>Yassine Slimani</u>  <b>Title:</b> METHOD FOR MAKING A SUPERCONDUCTING YBCO WIRE OR TAPE  <a href="https://www.freepatentsonline.com/11858853.html">https://www.freepatentsonline.com/11858853.html</a>  <a href="https://patentscope.wipo.int/search/en/detail.jsf?docId=US414867242">https://patentscope.wipo.int/search/en/detail.jsf?docId=US414867242</a></p>	<p><b>United States Patent</b>  <b>Type:</b> Grant  <b>Grant No.:</b> US 11,858,853 B2  <b>Grant Date:</b> 02/01/2024  <b>Application No.:</b> US 18/363,817  <b>Filing Date:</b> 02/08/2023</p>
15	<p><b>Inventor(s):</b> <u>Yassine Slimani</u>  <b>Title:</b> METHOD FOR MAKING A SUPERCONDUCTING YBCO WIRE OR TAPE  <a href="https://www.freepatentsonline.com/y2023/0373865.html">https://www.freepatentsonline.com/y2023/0373865.html</a>  <a href="https://patentscope.wipo.int/search/en/detail.jsf?docId=US414867242">https://patentscope.wipo.int/search/en/detail.jsf?docId=US414867242</a></p>	<p><b>United States Patent</b>  <b>Type:</b> Application  <b>Pub. No.:</b> US 2023/0373865 A1  <b>Publication Date:</b> 23/11/2023  <b>Application No.:</b> US 18/363,817</p>
16	<p><b>Inventor(s):</b> Tahani Mohammed Alfareed, Munirah Abdullah Almessiere, <u>Yassine Slimani</u>, Firdos Alam Khan, Ebtessam Abdullah Al-Suhaimi, Abdulhadi Baykal  <b>Title:</b> Magnetolectric Nanocomposites and Method of Preparation Thereof  <a href="https://www.freepatentsonline.com/y2023/0320997.html">https://www.freepatentsonline.com/y2023/0320997.html</a>  <a href="https://patentscope.wipo.int/search/en/detail.jsf?docId=US410564498">https://patentscope.wipo.int/search/en/detail.jsf?docId=US410564498</a></p>	<p><b>United States Patent</b>  <b>Type:</b> Application  <b>Pub. No.:</b> US 2023/0320997 A1  <b>Publication Date:</b> 12/10/2023  <b>Application No.:</b> US 17/701,110</p>
17	<p><b>Inventor(s):</b> <u>Yassine Slimani</u>, Munirah Abdullah Almessiere, Faten Ben Azzouz  <b>Title:</b> METHOD FOR MAKING Y123 SUPERCONDUCTING MATERIAL  <a href="https://www.freepatentsonline.com/11770983.html">https://www.freepatentsonline.com/11770983.html</a>  <a href="https://patentscope.wipo.int/search/en/detail.jsf?docId=US335026549">https://patentscope.wipo.int/search/en/detail.jsf?docId=US335026549</a></p>	<p><b>United States Patent</b>  <b>Type:</b> Grant  <b>Grant No.:</b> US 11,770,983 B2  <b>Grant Date:</b> 26/09/2023  <b>Application No.:</b> US 17/320,660</p>
18	<p><b>Inventor(s):</b> <u>Yassine Slimani</u>  <b>Title:</b> METHOD FOR MAKING YBCO SUPERCONDUCTOR  <a href="https://www.freepatentsonline.com/11767267.html">https://www.freepatentsonline.com/11767267.html</a>  <a href="https://patentscope.wipo.int/search/en/detail.jsf?docId=US400931770">https://patentscope.wipo.int/search/en/detail.jsf?docId=US400931770</a></p>	<p><b>United States Patent</b>  <b>Type:</b> Grant  <b>Grant No.:</b> US 11,767,267 B2  <b>Grant Date:</b> 26/09/2023  <b>Application No.:</b> US 18/115,112</p>
19	<p><b>Inventor(s):</b> <u>Yassine Slimani</u>  <b>Title:</b> METHOD FOR MAKING YBCO SUPERCONDUCTOR  <a href="https://www.freepatentsonline.com/y2023/0212080.html">https://www.freepatentsonline.com/y2023/0212080.html</a>  <a href="https://patentscope.wipo.int/search/en/detail.jsf?docId=US400931770">https://patentscope.wipo.int/search/en/detail.jsf?docId=US400931770</a></p>	<p><b>United States Patent</b>  <b>Type:</b> Application  <b>Pub. No.:</b> US 2023/0212080 A1  <b>Publication Date:</b> 06/07/2023  <b>Application No.:</b> US 18/115,112</p>
20	<p><b>Inventor(s):</b> <u>Yassine Slimani</u>  <b>Title:</b> Method for making yttrium-barium-copper-oxide having high offset superconducting transition temperature  <a href="https://www.freepatentsonline.com/11613501.html">https://www.freepatentsonline.com/11613501.html</a>  <a href="https://patentscope.wipo.int/search/en/detail.jsf?docId=US338558060">https://patentscope.wipo.int/search/en/detail.jsf?docId=US338558060</a></p>	<p><b>United States Patent</b>  <b>Type:</b> Grant  <b>Grant No.:</b> US 11613501 B2  <b>Grant Date:</b> 28/03/2023  <b>Application No.:</b> US 17/352,995</p>
21	<p><b>Inventor(s):</b> <u>Yassine Slimani</u>, Munirah Abdullah Almessiere, Abdulhadi Baykal  <b>Title:</b> MAGNETOELECTRIC MULTIFERROIC NANOCOMPOSITE  <a href="https://www.freepatentsonline.com/y2022/0359110.html">https://www.freepatentsonline.com/y2022/0359110.html</a></p>	<p><b>United States Patent</b>  <b>Type:</b> Application  <b>Pub. No.:</b> US 2022/0359110 A1</p>



	<a href="https://patentscope.wipo.int/search/en/detail.jsf?docId=US378325689">https://patentscope.wipo.int/search/en/detail.jsf?docId=US378325689</a>	<b>Publication Date:</b> 10/11/2022 <b>Application No.:</b> US 17/314,087
22	<b>Inventor(s):</b> <u>Yassine SLIMANI</u> <b>Title:</b> METHOD FOR MAKING YTTRIUM-BARIUM-COPPER-OXIDE HAVING HIGH OFFSET SUPERCONDUCTING TRANSITION TEMPERATURE <a href="https://www.freepatentsonline.com/y2021/0309577.html">https://www.freepatentsonline.com/y2021/0309577.html</a> <a href="https://patentscope.wipo.int/search/en/detail.jsf?docId=US338558060">https://patentscope.wipo.int/search/en/detail.jsf?docId=US338558060</a>	<b>United States Patent</b> <b>Type:</b> Application <b>Pub. No.:</b> US 2021/0309577 A1 <b>Publication Date:</b> 07/10/2021 <b>Application No.:</b> US 17/352,995
23	<b>Inventor(s):</b> <u>Yassine Slimani</u> <b>Title:</b> METHOD OF PRODUCING POLYCRYSTALLINE Y-358 SUPERCONDUCTOR <a href="https://www.freepatentsonline.com/11130712.html">https://www.freepatentsonline.com/11130712.html</a> <a href="https://patentscope.wipo.int/search/en/detail.jsf?docId=US291461553">https://patentscope.wipo.int/search/en/detail.jsf?docId=US291461553</a>	<b>United States Patent</b> <b>Type:</b> Grant <b>Grant No.:</b> US 11130712 B2 <b>Grant Date:</b> 28/09/2021 <b>Application No.:</b> US 16/139,755
24	<b>Inventor(s):</b> <u>Yassine SLIMANI</u> , Munirah Abdullah ALMESSIERE, Faten Ben Azzouz <b>Title:</b> METHOD FOR MAKING Y123 SUPERCONDUCTING MATERIAL <a href="https://www.freepatentsonline.com/y2021/0273151.html">https://www.freepatentsonline.com/y2021/0273151.html</a> <a href="https://patentscope.wipo.int/search/en/detail.jsf?docId=US335026549">https://patentscope.wipo.int/search/en/detail.jsf?docId=US335026549</a>	<b>United States Patent</b> <b>Type:</b> Application <b>Pub. No.:</b> US 2021/0273151 A1 <b>Publication Date:</b> 02/09/2021 <b>Application No.:</b> US 17/320,660
25	<b>Inventor(s):</b> <u>Yassine SLIMANI</u> , Munirah Abdullah ALMESSIERE, Faten Ben Azzouz <b>Title:</b> YTTRIUM-BASED SUPERCONDUCTORS WITH TUNGSTEN NANO-STRUCTURES <a href="https://www.freepatentsonline.com/11107967.html">https://www.freepatentsonline.com/11107967.html</a> <a href="https://patentscope.wipo.int/search/en/detail.jsf?docId=US293246423">https://patentscope.wipo.int/search/en/detail.jsf?docId=US293246423</a>	<b>United States Patent</b> <b>Type:</b> Grant <b>Grant No.:</b> US 11107967 B2 <b>Grant Date:</b> 31/08/2021 <b>Application No.:</b> US 16/161,430
26	<b>Inventor(s):</b> <u>Yassine SLIMANI</u> , Munirah Abdullah ALMESSIERE, Faten Ben Azzouz <b>Title:</b> YTTRIUM-BASED SUPERCONDUCTORS WITH TUNGSTEN NANO-STRUCTURES <a href="https://www.freepatentsonline.com/y2020/0119252.html">https://www.freepatentsonline.com/y2020/0119252.html</a> <a href="https://patentscope.wipo.int/search/en/detail.jsf?docId=US293246423">https://patentscope.wipo.int/search/en/detail.jsf?docId=US293246423</a>	<b>United States Patent</b> <b>Type:</b> Application <b>Pub. No.:</b> US 2020/0119252 A1 <b>Publication Date:</b> 16/04/2020 <b>Application No.:</b> US 16/161,430
27	<b>Inventor(s):</b> <u>Yassine Slimani</u> <b>Title:</b> METHOD OF PRODUCING POLYCRYSTALLINE Y-358 SUPERCONDUCTOR <a href="https://www.freepatentsonline.com/y2020/0095167.html">https://www.freepatentsonline.com/y2020/0095167.html</a> <a href="https://patentscope.wipo.int/search/en/detail.jsf?docId=US291461553">https://patentscope.wipo.int/search/en/detail.jsf?docId=US291461553</a>	<b>United States Patent</b> <b>Type:</b> Application <b>Pub. No.:</b> US 2020/0095167 A1 <b>Publication Date:</b> 26/03/2020 <b>Application No.:</b> US 16/139,755

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1	<u>Yassine Slimani*</u> , Hamit Erdemi, Abdulhadi Baykal, Munirah A. Almessiere, Atul Thakur, Khalid Mugasam Bato, Synergistic impact of metal/semiconductor (Co@Co <sub>3</sub> O <sub>4</sub> ) core-shell nanostructures on the structure, electrical, and dielectric properties of BaTiO <sub>3</sub> -based composites, Journal of Physics and Chemistry of Solids 195 (2024) 112292. <a href="https://doi.org/10.1016/j.jpics.2024.112292">https://doi.org/10.1016/j.jpics.2024.112292</a> (Impact Factor: 4.3)
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### Published Structured Abstracts

#	Name of Author(s), Abstract Title, Publisher, Date of Publication, and Link
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2	Halima Alahmed, Najwa Barnawi, Munirah A. Almessiere, <b>Yassine Slimani</b> , Abdulhadi Baykal, <i>IRMC-SRP-2022-02: Improved Physical Characteristics of NiFe<sub>2</sub>O<sub>4</sub> Nanoparticles by Adding Selenium for Hydrogen Evolution Reaction</i> . Abstracts of “Institute for Research and Medical Consultations (IRMC) - Summer Research Program - 2022” presented at Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on September 14, 2022. Saudi J. Med. Med. Sci. 2023 Jan-Mar;11(1):103–16. <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9997859/#">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9997859/#</a>
3	Kawthar Mogheas, Wasan Alrubaian, Munirah A. Almessiere, <b>Yassine Slimani</b> , Abdulhadi Baykal, <i>IRMC-SRP-2022-03: Study of the Physical Properties of Ga Doped Co-Ni Ferrite Microspheres</i> . Abstracts of “Institute for Research and Medical Consultations (IRMC) - Summer Research Program - 2022” presented at Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on September 14, 2022. Saudi J. Med. Med. Sci. 2023 Jan-Mar;11(1):103–16. <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9997859/#">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9997859/#</a>
4	Deema Ababtain, <b>Yassine Slimani*</b> , Munirah A. Almessiere, <i>Functional Properties of Dielectric (BaTiO<sub>3</sub>)/Magnetic (Spinel Ferrite) Composites</i> . Supplement Issue - Mawhiba Research Enrichment Program-2021. Saudi J. Med. Med. Sci. 2022 Jul;10(Suppl 1):S1–S42. <a href="https://doi.org/10.4103/1658-631X.350693">https://doi.org/10.4103/1658-631X.350693</a>
5	Fatimah H. Bukhamsin, <b>Yassine Slimani*</b> , Munirah A. Almessiere, <i>Impact of Ferrimagnetic Phase on the Performance of Ferroelectric Materials: Synthesis and Properties</i> . Supplement Issue - Mawhiba Research Enrichment Program-2021. Saudi J. Med. Med. Sci. 2022 Jul;10(Suppl 1):S1–S42. <a href="https://doi.org/10.4103/1658-631X.350693">https://doi.org/10.4103/1658-631X.350693</a>
6	Batool Alhaddad, <b>Yassine Slimani*</b> , Munirah A. Almessiere, <i>Synthesis of Barium Titanate Phase with ZnO Nanoparticles for Possible Radio Frequencies and Microwave Applications</i> . Supplement Issue - Mawhiba Research Enrichment Program-2021. Saudi J. Med. Med. Sci. 2022 Jul;10(Suppl 1):S1–S42. <a href="https://doi.org/10.4103/1658-631X.350693">https://doi.org/10.4103/1658-631X.350693</a>
7	Maya R. Alfaraj, <b>Yassine Slimani*</b> , Munirah A. Almessiere, <i>Synthesis and Characterization of Magnetolectric Nanocomposites for Multifunctional Devices</i> . Supplement Issue - Mawhiba Research Enrichment Program-2021. Saudi J. Med. Med. Sci. 2022 Jul;10(Suppl 1):S1–S42. <a href="https://doi.org/10.4103/1658-631X.350693">https://doi.org/10.4103/1658-631X.350693</a>
8	Nouf Essa Aldossary, <b>Yassine Slimani*</b> , Abdulhadi Baykal, <i>Synthesis and Characterization of Magnetolectric BaTiO<sub>3</sub>/Co<sub>0.5</sub>Ni<sub>0.5</sub>Nb<sub>0.02</sub>Fe<sub>1.98</sub>O<sub>4</sub> Nanocomposites for Multifunctional Device Applications</i> . Abstracts of “Institute for Research and Medical Consultations (IRMC) - Summer Research Program – 2020” presented at Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on November 18, 2020. Saudi J. Med. Med. Sci. 2021 Jan-Apr;9(1):91–112. <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7839566/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7839566/</a>
9	Rawan Ali Alkhathaami, <b>Yassine Slimani*</b> , Abdulhadi Baykal, <i>Design and Development of Hollow Carbon Spheres of Ni<sub>0.5</sub>Co<sub>0.5</sub>Ce<sub>x</sub>Dy<sub>x</sub>Fe<sub>2-2x</sub>O<sub>4</sub> for microwave absorbing applications</i> . Abstracts of “Institute for Research and Medical Consultations (IRMC) - Summer Research Program – 2020” presented at Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on November 18, 2020. Saudi J. Med. Med. Sci. 2021 Jan-Apr;9(1):91–112. <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7839566/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7839566/</a>
10	Ahad Alshahrani, <b>Yassine Slimani*</b> , Abdulhadi Baykal, <i>Synthesis and characterization of hollow carbon spheres of CeDy substituted NiCo spinel ferrites</i> . Abstracts of “Institute for Research and Medical Consultations (IRMC) - Summer Research Program – 2020” presented at Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on November 18, 2020. Saudi J. Med. Med. Sci. 2021 Jan-Apr;9(1):91–112. <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7839566/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7839566/</a>
11	Latifa Fahd AlOusi, <b>Yassine Slimani*</b> , Abdulhadi Baykal, <i>Effect of SiO<sub>2</sub> nanowires on Ferroelectric Barium Titanate Materials for Multilayer Ceramic Capacitors</i> . Abstracts of “Institute for Research and Medical Consultations (IRMC) - Summer Research Program – 2020” presented at Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on November 18, 2020. Saudi J. Med. Med. Sci. 2021 Jan-Apr;9(1):91–112. <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7839566/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7839566/</a>
12	Ahmed Taha Okasha, <b>Yassine Slimani*</b> , Abdulhadi Baykal, <i>Effects and Investigation of Titanium Oxide Nanowires Addition on High-Tc Superconductor YBCO Performances</i> . Abstracts of “Institute for Research and Medical Consultations (IRMC) - Summer Research Program – 2020” presented at Imam Abdulrahman Bin Faisal University,



	Dammam, Saudi Arabia, on November 18, 2020. Saudi J. Med. Med. Sci. 2021 Jan-Apr;9(1):91–112. <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7839566/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7839566/</a>
13	Gaeet AlFalah, <b>Yassine Slimani*</b> , Abdulhadi Baykal, <i>Preparation and Dielectric Properties of Graphene Nanoplatelets-Doped BaTiO<sub>3</sub> Nanocomposites for Electromagnetic Interferences (EM)</i> . Abstracts of “Institute for Research and Medical Consultations (IRMC) - Summer Research Program – 2020” presented at Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on November 18, 2020. Saudi J. Med. Med. Sci. 2021 Jan-Apr;9(1):91–112. <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7839566/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7839566/</a>
14	Rahaf Braek Alshamrani, <b>Yassine Slimani*</b> , Abdulhadi Baykal, <i>Improved Critical Current Density in YBCO added carbon nanotubes Superconductor</i> . Abstracts of “Institute for Research and Medical Consultations (IRMC) - Summer Research Program – 2020” presented at Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on November 18, 2020. Saudi J. Med. Med. Sci. 2021 Jan-Apr;9(1):91–112. <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7839566/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7839566/</a>
15	Wejdan Alhajri, <b>Yassine Slimani*</b> , Abdulhadi Baykal, <i>Synthesis and Investigation of CeDy doped NiCo ferrites Hollow Spheres with enhanced microwave absorbing performances</i> . Abstracts of “Institute for Research and Medical Consultations (IRMC) - Summer Research Program – 2020” presented at Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on November 18, 2020. Saudi J. Med. Med. Sci. 2021 Jan-Apr;9(1):91–112. <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7839566/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7839566/</a>
16	Moustafa M. Aouna, <b>Yassine Slimani*</b> , Abdulhadi Baykal, <i>Effect of Nb doped CoNi ferrites on the structural, optical, magnetic, and dielectric properties of BaTiO<sub>3</sub> materials</i> . Abstracts of “Institute for Research and Medical Consultations (IRMC) - Summer Research Program – 2020” presented at Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on November 18, 2020. Saudi J. Med. Med. Sci. 2021 Jan-Apr;9(1):91–112. <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7839566/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7839566/</a>
17	Areej Hadi Al-mebti, <b>Yassine Slimani*</b> , Abdulhadi Baykal, <i>Design of enhanced magnetoelectric nanocomposites BaTiO<sub>3</sub>/xCo<sub>0.5</sub>Zn<sub>0.5</sub>Tm<sub>0.01</sub>Fe<sub>1.98</sub>O<sub>4</sub> for high-specificity anticancer drug delivery</i> . Abstracts of “Institute for Research and Medical Consultations (IRMC) - Summer Research Program – 2020” presented at Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on November 18, 2020. Saudi J. Med. Med. Sci. 2021 Jan-Apr;9(1):91–112. <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7839566/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7839566/</a>

### Published Scientific Research Papers in Non-Impacted Journals

#	Name of Investigator(s), Research Title, Publisher and Date of Publication
18	<b>Y. Slimani</b> , E. Hannachi, F. Ben Azzouz, M. Ben Salem, Effect of Sintering Temperature on the Microstructure and Electrical Properties of Y <sub>3</sub> Ba <sub>5</sub> Cu <sub>8</sub> O <sub>18</sub> Superconducting Material, Nanotechnology in Science and Engineering 1 (2018) 67-75. <a href="https://uniquepubinternational.com/wp-content/uploads/2018/10/UPI-NSE-2018-6-Final.pdf">https://uniquepubinternational.com/wp-content/uploads/2018/10/UPI-NSE-2018-6-Final.pdf</a>
19	<b>Y. Slimani</b> , E. Hannachi, F. Ben Azzouz, M. Ben Salem, Optimization of Synthesis Parameters for the Formation of Promising Y <sub>3</sub> Ba <sub>5</sub> Cu <sub>8</sub> O <sub>18</sub> Compound, Nanotechnology in Science and Engineering 1 (2018) 11-20. <a href="https://uniquepubinternational.com/wp-content/uploads/2018/10/UPI-NSE-2018-3-Final.pdf">https://uniquepubinternational.com/wp-content/uploads/2018/10/UPI-NSE-2018-3-Final.pdf</a>

### Performed Training Courses and Workshops

#	Courses and Workshops	Place	Date
1	« Writing skills » workshop	Researcher Academy - ELSEVIER	Dec 01, 2020
2	« RESEARCH TECHNIQUES AND TOOLS LEVEL » workshop	Clarivate Analytics & Imam Abdulrahman Bin Faisal University (Saudi Arabia)	Nov 24, 2020
3	« Fundamentals of manuscript preparation » workshop	Researcher Academy - ELSEVIER	Nov 24, 2020
4	« Book writing » workshop	Researcher Academy - ELSEVIER	Nov 23, 2020
5	« Technical writing skills » workshop	Researcher Academy - ELSEVIER	Nov 23, 2020
6	« QUALITY IN SCIENTIFIC RESEARCH » workshop	Clarivate Analytics & Imam Abdulrahman Bin Faisal University (Saudi Arabia)	Nov 17, 2020



7	« Author Workshop Scholarly Publishing » (by Elsevier)	Elsevier and Imam Abdulrahman Bin Faisal University (Saudi Arabia)	Dec 20, 2017
8	« ELSEVIER - Author Workshop »	Imam Abdulrahman Bin Faisal University, Dammam - Saudi Arabia	Dec 19, 2017
9	Course: « Control of Biohazards Course »	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia	Mar 19-22, 2017
10	Thomson Reuters training sessions	Faculty of Sciences of Bizerte – University of Carthage, Tunisia	Apr 23, 2015
11	Thomson Reuters training sessions	University of Tunis Al-Manar, Tunisia	Apr 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	Jan 20, 2015
13	Workshop: « Physics Days of Young Researchers - JJCP 2014 »	Tunisian Physical Society at Faculty of Sciences of Tunis, Tunisia	26 Feb - 01 Mar 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	Sep 01-13, 2013
15	Scientific Internship	Faculty of Science and Arts, Abant Izzet Baysal University, Bolu, Turkey	01-30 Apr 2013

## Projects/Funds

### Current Research Projects

#	Name of Investigator(s) / Research Title / Funder / Grant No. / Budget	Date
1	<b>Title:</b> Perovskite-based nanomaterials for (bio)sensors and biological applications <b>Investigator(s):</b> <u>Yassine Slimani</u> (PI), Munirah Abdullah Almessiere, Abdulhadi Baykal <b>Funder:</b> Deanship for Scientific Research (DSR). <b>Application No.:</b> 2020-164-IRMC <b>Budget:</b> 184 400 SAR	Mar 2020 – Ongoing
2	<b>Title:</b> Rebuilding the Electron Microscope Unit <b>Investigator(s):</b> Sultan Akhtar (PI), Munirah Abdullah Almessiere (Co-PI), <u>Yassine Abdelhamid Slimani (Co-I)</u> , Emre Cevik (Co-I) <b>Funder:</b> Research, Development and Innovation Authority (RDIA). <b>Application No.:</b> 12959-iau-2023-iau-R-3-1-SE- <b>Budget:</b> 4,000,000 SAR	Mar 2024 – Ongoing

### Completed Research Projects

#	Name of Investigator(s) / Research Title / Funding Source / Application No. / Budget	Date
1	<b>Title:</b> Development of fast multiplex SARS-COV-2 diagnosis kit <b>Investigator(s):</b> Huseyin Tombuloglu (PI), Ebtesam Al-Suhaimi, Munirah Abdullah Almessiere, <u>Yassine Slimani</u> , Hussein Sabit, Abdulhadi Baykal <b>Funder:</b> Deanship for Scientific Research (DSR) Fast Track Fund. <b>Application No.:</b> Covid19-2020-026-IRMC <b>Budget:</b> 200 000 SAR	2020 – 2022
2	<b>Title:</b> SrFe <sub>12-x</sub> RE <sub>x</sub> O <sub>19</sub> (hard) / Ni <sub>0.2</sub> Cu <sub>0.4</sub> Zn <sub>0.2</sub> Fe <sub>2</sub> O <sub>4</sub> (soft) (RE=Nd, Gd, Er, Tm and Tb) hard/soft magnetic nanofibers: Microwave absorption, magnetic properties and antibacterial activities study <b>Investigator(s):</b> Abdulhadi Baykal (PI), <u>Yassine Slimani</u> , Munirah Abdullah Almessiere, Ismail Ercan, Suriya Rehman <b>Funder:</b> Deanship for Scientific Research (DSR). <b>Application No.:</b> 2020-169-IRMC <b>Budget:</b> 165 800 SAR	2020 – 2023



3	<p><b>Title:</b> One pot synthesis of hard/soft nanoferrites with exchange behaviour via sonochemical approach: Magnetic and electrical investigation</p> <p><b>Investigator(s):</b> Ismail Ercan (PI), <b>Yassine Slimani</b>, Abdulhadi Baykal, Munirah Abdullah Almessiere, Fatimah Alahmari, Tarek Kayed</p> <p><b>Funder:</b> Deanship for Scientific Research (DSR). <b>Application No.:</b> 2020-170-IRMC</p> <p><b>Budget:</b> 150 800 SAR</p>	2020 – 2022
4	<p><b>Title:</b> 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</p> <p><b>Investigator(s):</b> <b>Yassine Slimani</b> (PI), Munirah Abdullah Almessiere, Faten Ben Azzouz</p> <p><b>Funder:</b> Deanship for Scientific Research (DSR). <b>Application No.:</b> 2018-209-IRMC</p> <p><b>Budget:</b> 200 000 SAR</p>	2018-2020
5	<p><b>Title:</b> Development basis of a novel magnetometer using superconductor materials. Impact of high-energy ball milling technique</p> <p><b>Investigator(s):</b> <b>Yassine Slimani</b> (PI), Abdulhadi Baykal, Faten Ben Azzouz</p> <p><b>Funder:</b> Deanship for Scientific Research (DSR). <b>Application No.:</b> 2017-576-IRMC</p> <p><b>Budget:</b> 76 000 SAR</p>	2018-2020
6	<p><b>Title:</b> 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</p> <p><b>Investigator(s):</b> Abdulhadi Baykal, <b>Yassine Slimani</b> (P-Col), Ismail Ercan, Huseyin Tombuloglu</p> <p><b>Funder:</b> Deanship for Scientific Research (DSR). <b>Application No.:</b> 2017-605-IRMC</p> <p><b>Budget:</b> 72 000 SAR</p>	2018-2020
7	<p><b>Title:</b> The production of multi-functional hollow silica spheres (HSS) and their use in various bio-applications</p> <p><b>Investigator(s):</b> Ayhan Bozkurt, <b>Yassine Slimani</b> (Col), Ismail Ercan, Abdulhadi Baykal, Muhammad Nawaz</p> <p><b>Funder:</b> Deanship for Scientific Research (DSR). <b>Application No.:</b> 2017-567-IRMC</p> <p><b>Budget:</b> 80 000 SAR</p>	2018-2020
8	<p><b>Title:</b> Impact of nano-entities addition on superconducting properties of HTS materials</p> <p><b>Investigator(s):</b> <b>Yassine Slimani</b> (PI), Essia Hannachi, Faten Ben Azzouz</p> <p><b>Funder:</b> Institute for Research and Medical Consultations (IRMC).</p> <p><b>Application No.:</b> 2018-IRMC-S-2</p> <p><b>Budget:</b> 105 513 SAR</p>	2018-2020
9	<p><b>Title:</b> Effect of high-energy ball milling technique on electrical and magnetic properties of various materials</p> <p><b>Investigator(s):</b> <b>Yassine Slimani</b> (PI), Essia Hannachi, Faten Ben Azzouz, Abdulhadi Baykal</p> <p><b>Funder:</b> Institute for Research and Medical Consultations (IRMC).</p> <p><b>Application No.:</b> 2017-IRMC-S-3</p> <p><b>Budget:</b> 183 372 SAR</p>	2017-2020

## Scientific Community Services

### Given Training Courses and Workshops

#	Courses and/or Workshops	Date
1	<p><b>Seminar on: "Structured &amp; Graphical Abstracts"</b></p> <p><b>Attendees:</b> Mawhiba students (Gifted students)</p> <p><b>Place:</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University, Dammam - Saudi Arabia</p>	July 26, 2023
2	<p><b>Seminar on: "Advanced Nanomaterials and Nanocomposites: Synthesis, Properties, and Applications"</b></p>	Oct 13, 2022

	<p><b>Attendees:</b> Master students of Nanotechnology and Biotechnology Programs at IRMC  <b>Place:</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University, Dammam - Saudi Arabia</p>	
3	<p><b>Mawhiba Research Enrichment Program - 2022</b>  <b>Attendees:</b> 3 Mawhiba students  <b>Place:</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University, Dammam - Saudi Arabia</p>	24 Jul – 18 Aug 2022
4	<p><b>Seminar on: “Structured abstract, Graphical abstracts preparation, and Article submission to journals”</b>  <b>Attendees:</b> 32 Mawhiba students 2022  <b>Place:</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University, Dammam - Saudi Arabia</p>	Jul 27, 2022
5	<p><b>Seminar on: “Advanced Ceramics: Science and Technologies”</b>  <b>Attendees:</b> Master students of Nanotechnology and Biotechnology Programs at IRMC  <b>Place:</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University, Dammam - Saudi Arabia</p>	Mar 06, 2022
6	<p><b>Summer Training (IRMC-SRP-2022)</b>  <b>Attendees:</b> 7 students (from Inside and Outside IAU)  <b>Place:</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University, Dammam - Saudi Arabia</p>	18 Jul – 01 Sep 2022
7	<p><b>Mawhiba Research Enrichment Program-2021</b>  <b>Attendees:</b> 4 Mawhiba students  <b>Place:</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University, Dammam - Saudi Arabia</p>	13 Jun – 08 Jul 2021
8	<p><b>Seminar on: “Structured abstract, Graphical abstracts preparation, and Article submission to journals”</b>  <b>Attendees:</b> 46 Mawhiba students 2021  <b>Place:</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University, Dammam - Saudi Arabia</p>	Jun 16, 2021
9	<p><b>Summer Training Program (IRMC-SRP-2020)</b>  <b>Attendees:</b> 10 students (Inside and Outside IAU)  <b>Place:</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University, Dammam - Saudi Arabia</p>	2020
10	<p><b>Seminar on: “Superconductivity: Science and Technology”</b>  <b>Attendees:</b> Summer Training Students 2020  <b>Place:</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University, Dammam - Saudi Arabia</p>	Jun 03, 2020
11	<p><b>Seminar on: “Nanotechnology Applications: Energy and Medicine”</b>  <b>Attendees:</b> Master students of Nanotechnology and Biotechnology Programs at IRMC  <b>Place:</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University, Dammam - Saudi Arabia</p>	May 20, 2020
12	<p><b>Volunteer Programs</b>  <b>Attendees:</b> 4 students  <b>Place:</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University, Dammam - Saudi Arabia</p>	2018, 2019, 2020

## Contribution to Scientific Conferences and Workshops

#	Contribution: Authors and Title / Conference Title / Place and Date
1	<b>Plenary Talk: <u>Yassine Slimani</u></b> , Improvement in the performances of high-temperature superconductors, IX International Scientific Conference «ACTUAL PROBLEMS OF SOLID STATE PHYSICS» (APSSP-2021), Minsk – Belarus ( <i>Online Conference</i> ), November 22-26, 2021.
2	<b>Oral Presentation: <u>Yassine Slimani</u></b> , Effect of WO <sub>3</sub> Nanostructured Materials Incorporation on the Superconducting Performances of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-d</sub> Compound, 12 <sup>th</sup> International Workshop on Processing and Applications of Superconducting Bulk Materials (PASREG 2021), SHANGHAI, CHINA ( <i>Online Conference</i> ), November 11 - 14, 2021.
3	<b>Oral Presentation: <u>Yassine Slimani</u></b> , Impact of WO <sub>3</sub> Nanowires and Nanoparticles Additions on Superconducting Properties of YBCO Compound, 7 <sup>th</sup> International Conference on Superconductivity and Magnetism (ICSM2021), Milas-Bodrum/Muğla, Turkey ( <i>Online Conference</i> ), October 21-27, 2021.
4	<b>Keynote Speaker: <u>Yassine Slimani</u></b> , Boosting up the performances of high-temperature superconductors for energy applications, 2 <sup>nd</sup> International Conference on Advances in Materials Science (AIMS 2021), Pakistan ( <i>Online Conference</i> ), October 05-06, 2021.
5	<b>Oral Presentation:</b> Quentin Nouailhetas, Anjela Koblichka-Veneva, Michael Koblichka, Kévin Berger, Bruno Douine, <u>Yassine Slimani</u> , Essia Hannachi, Magnetic phases in superconducting, polycrystalline bulk FeSe samples, 65 <sup>th</sup> Annual Conference on Magnetism and Magnetic Materials (MMM 2020), United States ( <i>Virtual Conference</i> ), November 2020
6	<b>Oral Presentation:</b> Michael Koblichka, Anjela Koblichka-Veneva, XianLin Zeng, Essia Hannachi, <u>Yassine Slimani</u> , “Dimensionality and Superconducting Parameters of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> Foams”. International Conference on Low Temperature Physics and Superconductivity (ICLTPS 2020), Tokyo – Japan, June 11-12, 2020
7	<b>Oral Presentation:</b> Michael Koblichka, <u>Yassine Slimani</u> , Thomas Karwoth, Anjela Koblichka-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
8	<b>Oral Presentation:</b> H. Gungunes, M.A. Almessiere, <u>Y. Slimani</u> , A. Baykal, “AC susceptibility and Mössbauer analysis of Mn–Y substituted Sr <sub>1-x</sub> Mn <sub>x</sub> Fe <sub>12-y</sub> Y <sub>y</sub> O <sub>19</sub> (0.0 ≤ x=y ≤ 0.5) nano-hexaferrites”. NanoBio & Med 2018 International Conference, Barcelona – Spain, 20-22 November 2018
9	<b>Oral Presentation: <u>Y. Slimani</u></b> , E. Hannachi, A. Ekicibil, F. Ben Azzouz, “Microstructure and superconducting properties of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> added with TiO <sub>2</sub> nanoparticles and nanowires: shape effect”. 6 <sup>th</sup> International Conference on Superconductivity and Magnetism (ICSM2018), Antalya - Turkey, April 29-May 04 2018
10	<b>Poster Presentation:</b> E. Hannachi, <u>Y. Slimani</u> , F. Ben Azzouz, M. Zouaoui, M. Ben Salem, “The study of normal state properties of BSCCO superconductors added with different sizes of SiO <sub>2</sub> nanoparticles”. 6 <sup>th</sup> International Conference on Superconductivity and Magnetism (ICSM2018), Antalya – Turkey, April 29-May 04, 2018
11	<b>Oral Presentation:</b> E. Hannachi, <u>Y. Slimani</u> , M. Zouaoui, M. Ben Salem, “The normal state properties of Bi-based superconductor added with different nano-sized SiO <sub>2</sub> particles”. International Conference on Functional Materials (ICFM-2017), Hammamet – Tunisia, 05-08 September 2017
12	<b>Invited Speaker: <u>Yassine Slimani</u></b> , “Superconducting Properties of High-Tc YBCO Compounds”. 4 <sup>th</sup> International Conference on Materials Science and Nanotechnology for Next generation (MSNG-2017), Bosnia – Sarajevo, 28-30 June 2017
13	<b>Oral Presentation: <u>Yassine Slimani</u></b> , “Impact of Nanoparticles Addition on Superconducting Properties in Y <sub>3</sub> Ba <sub>5</sub> Cu <sub>8</sub> O <sub>y</sub> Compounds”. 4 <sup>th</sup> International Conference on Materials Science and Nanotechnology for Next generation (MSNG-2017), Bosnia - Sarajevo, 28-30 June 2017
14	<b>Poster Presentation:</b> E. Hannachi, <u>Y. Slimani</u> , 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 <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> – Pinning mechanism”. 11 <sup>ème</sup> Colloque National de la Recherche en Physique (CNRP 2017), Hammamet – Tunisia, 18-21 March 2017



15	<b>Poster Presentation:</b> <u>Y. Slimani</u> , 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 $YBa_2Cu_3O_{7-d}$ and $Y_3Ba_5Cu_8O_{18\pm x}$ compounds". Matériaux 2016, Hammamet – Tunisia, 29 October to 01 November 2016
16	<b>Poster Presentation:</b> E. Hannachi, <u>Y. Slimani</u> , 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
17	<b>Poster Presentation:</b> <u>Y. Slimani</u> , E. Hannachi, M. K. Ben Salem, A. Hamrita, F. Ben Azzouz, M. Ben Salem. "Impact of nano- $CoFe_2O_4$ addition on the structural, microstructural and electrical properties in $YBa_2Cu_3O_{7-y}$ and $Y_3Ba_5Cu_8O_{18\pm y}$ compounds". 5th Tunisian Crystallographic Meeting International Conference (TCM 5), Hammamet – Tunisia, 20-24 March 2016
18	<b>Poster Presentation:</b> E. Hannachi, <u>Y. Slimani</u> , 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 $YBa_2Cu_3O_y$ compound". 5th Tunisian Crystallographic Meeting International Conference (TCM 5), Hammamet – Tunisia, 20-24 March 2016
19	<b>Oral Presentation:</b> <u>Y. Slimani</u> , E. Hannachi, M. K. Ben Salem, A. Hamrita, M. Ben Salem, F. Ben Azzouz. "Comparative study of nano- $CoFe_2O_4$ added $YBa_2Cu_3O_{7-d}$ and $Y_3Ba_5Cu_8O_{18\pm x}$ superconductors on excess conductivity". Euro-Mediterranean Meeting on Functionalized Materials (EMM FM-2015), Hammamet – Tunisia, 09-13 September 2015
20	<b>Oral Presentation:</b> E. Hannachi, <u>Y. Slimani</u> , M. K. Ben Salem, A. Hamrita, M. Ben Salem, F. Ben Azzouz. "Effect of silver inclusion on excess conductivity of $YBa_2Cu_3O_y$ compound embedded by superconducting nano-particles". Euro-Mediterranean Meeting on Functionalized Materials (EMM FM-2015), Hammamet – Tunisia, 09-13 September 2015
21	<b>Oral Presentation:</b> M. K. Ben Salem, E. Hannachi, <u>Y. Slimani</u> , A. Hamrita, M. Ben Salem, F. Ben Azzouz. "The effect of $SiO_2$ nano-entities on microstructure and pinning properties in $YBa_2Cu_3O_{7-d}$ superconductor". Euro-Mediterranean Meeting on Functionalized Materials (EMM FM-2015), Hammamet – Tunisia, 09-13 September 2015
22	<b>Oral Presentation:</b> M. Ben Salem, M. K. Ben Salem, E. Hannachi, <u>Y. Slimani</u> , A. Hamrita, F. Ben Azzouz. "Magneto-conductivity fluctuation studies in $YBa_2Cu_3O_y$ compound embedded by superconducting nano-particles Y-deficient $YBa_2Cu_3O_y$ ". Euro-Mediterranean Meeting on Functionalized Materials (EMM FM-2015), Hammamet – Tunisia, 09-13 September 2015
23	<b>Poster Presentation:</b> <u>Y. Slimani</u> , E. Hannachi, M. K. Ben Salem, A. Hamrita, M. Ben Salem, F. Ben Azzouz. "Fluctuation induced magneto-conductivity of $Y_3Ba_5Cu_8O_{18\pm x}$ and $YBa_2Cu_3O_{7-d}$ ". 9 <sup>th</sup> International Workshop on Processing and Applications of Superconducting (RE)BCO Large Grain Materials, Liège – Belgium, September 2-4, 2015
24	<b>Oral Presentation:</b> <u>Y. Slimani</u> , E. Hannachi, M. K. Ben Salem, A. Hamrita, M. Ben Salem, F. Ben Azzouz. "Étude comparative de la magnéto-conductivité électrique dans les composés $Y_3Ba_5Cu_8O_{18-\delta}$ et $YBa_2Cu_3O_{7-\delta}$ ". Matériaux 2015, Mahdia – Tunisia, 22-26 March 2015
25	<b>Oral Presentation:</b> E. Hannachi, <u>Y. Slimani</u> , M. K. Ben Salem, A. Hamrita, M. Ben Salem, F. Ben Azzouz. "Étude de l'excès de la conductivité dans les matériaux polycristallins $YBa_2Cu_3O_{7-d}$ préparés par la technique du broyage énergétique". Matériaux 2015, Mahdia – Tunisia, 22-26 March 2015
26	<b>Oral Presentation:</b> M. K. Ben Salem, E. Hannachi, <u>Y. Slimani</u> , 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
27	<b>Oral Presentation:</b> A. Hamrita, M. K. Ben Salem, E. Hannachi, <u>Y. Slimani</u> , 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



28	<b>Oral Presentation:</b> <u>Y. Slimani</u> , 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 $\text{CoFe}_2\text{O}_4$ ”. 11ème Colloque National de la Recherche en Physique (CNRP 2014), Sousse – Tunisia, 20-23 December 2014
29	<b>Oral Presentation:</b> E. Hannachi, <u>Y. Slimani</u> , M. K. Ben Salem, A. Hamrita, M. Ben Salem, F. Ben Azzouz. “Fluctuation de la magneto-conductivité électrique dans les composés YBCO préparés par broyage énergétique”. 11ème Colloque National de la Recherche en Physique (CNRP 2014), Sousse – Tunisia, 20-23 December 2014
30	<b>Oral Presentation:</b> A. Hamrita, E. Hannachi, <u>Y. Slimani</u> , 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”. 11ème Colloque National de la Recherche en Physique (CNRP 2014), Sousse – Tunisia, 20-23 December 2014
31	<b>Oral Presentation:</b> M. K. Ben Salem, A. Hamrita, E. Hannachi, <u>Y. Slimani</u> , M. Ben Salem, F. Ben Azzouz. “Effet des nanoparticules de $\text{SiO}_2$ sur la structure, microstructure et sur les propriétés de piégeage des vortex dans le composé YBCO”. 11ème Colloque National de la Recherche en Physique (CNRP 2014), Sousse – Tunisia, 20-23 December 2014
32	<b>Poster Presentation:</b> <u>Y. Slimani</u> , E. Hannachi, M. K. Ben Salem, A. Hamrita, M. Zouaoui, F. Ben Azzouz, M. Ben Salem. “Energy Dissipation Mechanisms in Polycrystalline Superconductor $\text{Y}_3\text{Ba}_5\text{Cu}_8\text{O}_y$ ”. 4th International Conference on Superconductivity and Magnetism Congress (ICSM 2014), Antalya – Turkey, 27 April to 02 May 2014
33	<b>Poster Presentation:</b> E. Hannachi, <u>Y. Slimani</u> , 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 $\text{YBa}_2\text{Cu}_3\text{O}_{7-y}$ - pinning mechanism”. 4th International Conference on Superconductivity and Magnetism Congress (ICSM 2014), Antalya – Turkey, 27 April to 02 May 2014
34	<b>Poster Presentation:</b> A. Hamrita, E. Hannachi, <u>Y. Slimani</u> , 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
35	<b>Oral Presentation:</b> <u>Y. Slimani</u> , E. Hannachi, M. K. Ben Salem, A. Hamrita, M. Zouaoui, M. Ben Salem, F. Ben Azzouz. “Phénomènes de dissipation d’énergie dans le supraconducteur $\text{Y}_3\text{Ba}_5\text{Cu}_8\text{O}_y$ ”. Young Researchers Days 'workshop' in Physics (JJCP 2014), Faculty of Sciences of Tunis – Tunisia, 26 February to 01 March 2014
36	<b>Oral Presentation:</b> E. Hannachi, <u>Y. Slimani</u> , 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 $\text{YBa}_2\text{Cu}_3\text{O}_{7-y}$ - Mécanisme de piégeage”. Young Researchers Days 'workshop' in Physics (JJCP 2014), Faculty of Sciences of Tunis – Tunisia, 26 February to 01 March 2014
37	<b>Poster Presentation:</b> <u>Y. Slimani</u> , M. K. Ben Salem, E. Hannachi, A. Hamrita, L. Bessais, M. Ben Salem, F. Ben Azzouz. “Effet de nanofil de $\text{SiO}_2$ 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 « $\text{E}\mu\text{M}$ -2013 », IPEST, La Marsa – Tunisia, 01-13 September 2013
38	<b>Poster Presentation:</b> E. Hannachi, <u>Y. Slimani</u> , 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 « $\text{E}\mu\text{M}$ -2013 », IPEST, La Marsa – Tunisia, 01-13 September 2013
39	<b>Poster Presentation:</b> M. K. Ben Salem, <u>Y. Slimani</u> , 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 « $\text{E}\mu\text{M}$ -2013 », IPEST, La Marsa – Tunisia, 01-13 September 2013
40	<b>Poster Presentation:</b> 3rd International Advances in Applied Physics and Material Science Congress (APMAS 2013), Antalya – Turkey, 24 to 28 April 2013

41	<b>Poster Presentation:</b> M. K. Ben Salem, E. Hannachi, <b>Y. Slimani</b> , A. Hamrita, L. Bessais, F. Ben Azzouz, M. Ben Salem. "Effect of nanowires SiO <sub>2</sub> on superconducting properties of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> bulks". 3rd International Advances in Applied Physics and Material Science Congress (APMAS 2013), Antalya – Turkey, 24 to 28 April 2013
42	<b>Oral Presentation:</b> M. K. Ben Salem, A. Hamrita, <b>Y. Slimani</b> , 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 <sub>2</sub> O <sub>4</sub> ". Young Researchers Days "workshop" in Physics (JJCP 2013), Rimel – Bizerte – Tunisia, 10 and 11 April 2013
43	<b>Poster Presentation:</b> <b>Y. Slimani</b> , F. Ben Azzouz, M. Ben Salem. "Elaboration of Y <sub>3</sub> Ba <sub>5</sub> Cu <sub>8</sub> O <sub>18</sub> compound - Superconducting properties". International Conference on Innovative Materials and Techniques (CIMT-2012), Hammamet – Tunisia, 12 to 15 November 2012

### Research Training Supervision of various students' level

#	Type / Institution / Name of Trainee(s)	Date
1	<p><b>Talmada - Mawhiba Program</b>  <b>Organizers:</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia &amp; King Abdulaziz &amp; his Companions Foundation for Giftedness &amp; Creativity (Mawhiba)  <b>Students:</b>                      1/ Rand Hani Al-Ahmari (<a href="mailto:rand.hani2004@gmail.com">rand.hani2004@gmail.com</a>)                      ★ The student "Rand Hani Al-Ahmari" has been selected to participate in IbdAA Olympiad 2023 organized at KFUPM-KSA.                      ★ The student "Rand Hani Al-Ahmari" has been selected in the top 40 students nominated for the participation in ISEF Olympiad 2023.                      ★ The student "Rand Hani Al-Ahmari" won two prizes:                      1. Special/Outstanding International Award from "The YALE Science &amp; Engineering Association".                      2. Third Rank for the Grand Prizes from Mawhiba.</p> <p>2/ Lama Said Abu Bakr Badghish (<a href="mailto:lama_sb@outlook.sa">lama_sb@outlook.sa</a>)                      ★ The student "Lama Said Abu Bakr Badghish" has been selected to participate in IbdAA Olympiad 2023 organized at KFUPM-KSA.</p>	Sep 2022 – Feb 2023
2	<p><b>Mawhiba Research Enrichment Program-2022</b>  <b>Organizers:</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia &amp; King Abdulaziz &amp; his Companions Foundation for Giftedness &amp; Creativity (Mawhiba)  <b>Students:</b>                      1/ Lama Said Abu Bakr Badghish (<a href="mailto:lama_sb@outlook.sa">lama_sb@outlook.sa</a>)                      2/ Rand Hani Al-Ahmari (<a href="mailto:rand.hani2004@gmail.com">rand.hani2004@gmail.com</a>)                      3/ Fatima Hussein bin Ali Al Daoud (<a href="mailto:math362@gmail.com">math362@gmail.com</a> ; <a href="mailto:fhdawood13@gmail.com">fhdawood13@gmail.com</a>)</p>	24 Jul – 18 Aug 2022
3	<p><b>Summer Training (IRMC-SRP-2022)</b>  <b>Place:</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia  <b>Students:</b>                      1/ Zainab Albazroun (<a href="mailto:Zainabalbazroun@gmail.com">Zainabalbazroun@gmail.com</a>)                      2/ Halima Alahmad (<a href="mailto:2200003849@iau.edu.sa">2200003849@iau.edu.sa</a>)                      3/ Najwa Barnawi (<a href="mailto:Njoa1.12@hotmail.com">Njoa1.12@hotmail.com</a>)                      4/ Maryam Alabdullah (<a href="mailto:Maryam.j.alabdullah@gmail.com">Maryam.j.alabdullah@gmail.com</a>)                      5/ Kawthar Maghiss (<a href="mailto:2180004404@iau.edu.sa">2180004404@iau.edu.sa</a>)                      6/ Wasan Alrubaian (<a href="mailto:Wasanalrubaian@gmail.com">Wasanalrubaian@gmail.com</a>)                      7/ Fatimah Mahdi Alnas (<a href="mailto:2180000600@iau.edu.sa">2180000600@iau.edu.sa</a>)</p>	18 Jul – 01 Sep 2022

4	<p><b>Mawhiba Research Enrichment Program-2021</b>  <b>Organizers:</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia &amp; King Abdulaziz &amp; his Companions Foundation for Giftedness &amp; Creativity (Mawhiba)  <b>Students:</b>                      1/ Batool Tayseer Alhaddad (<a href="mailto:alhaddbt@gmail.com">alhaddbt@gmail.com</a>)                      2/ Fatima Hasan Bukhamsin (<a href="mailto:ftom-h-bu50@hotmail.com">ftom-h-bu50@hotmail.com</a>)                      3/ Deema Mohamad Albabtain (<a href="mailto:albabtaindeema@gmail.com">albabtaindeema@gmail.com</a>)                      4/ Maya Raafat Alfaraj (<a href="mailto:rajaaalelshaikh@gmail.com">rajaaalelshaikh@gmail.com</a>)</p>	13 Jun – 8 Jul 2021
5	<p><b>Summer Training Program (IRMC-SRP-2020)</b>  <b>Place:</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia  <b>Students:</b>                      1/ Areej Hadi Al-mehti (<i>1 published Abstract</i>)                      2/ Gaet AlFalah (<i>1 published Paper + 1 Published Abstract</i>)                      3/ Latifa Fahd AlOusi (<i>1 published Paper + 1 Published Abstract</i>)                      ★ The student, Latifa Fahad AlOusi, won the 1<sup>st</sup> place for the oral presentation during the activities of summer training program at IRMC.                      4/ Nouf Essa Aldossary (<i>1 published Paper + 1 Published Abstract</i>)                      5/ Rahaf Braek Alshamrani (<i>1 published Abstract</i>)                      6/ Moustafa M. Aouna (<i>1 published Paper + 1 Published Abstract</i>)                      7/ Ahmed Taha Okasha (<i>1 published Abstract</i>)                      8/ Ahad Alshahrani (<i>1 published Abstract</i>)                      9/ Rawan Ali Alkhathaami (<i>1 published Abstract</i>)                      10/ Wejdan Alhajri (<i>1 published Abstract</i>)</p>	2020
6	<p><b>Volunteer Program</b>  <b>Place:</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia  <b>Student:</b> Fatima Omar Al-qwairi (<i>3 Publications + others In Progress</i>)</p>	2019
7	<p><b>Volunteer Program</b>  <b>Place:</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia  <b>Student:</b> Fatimah Aldakheel (<i>4 Publications</i>)</p>	2019
8	<p><b>Volunteer Program</b>  <b>Place:</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia  <b>Student:</b> Sarah Aldakhil (<i>1 Publication</i>)</p>	2019
9	<p><b>Volunteer Program</b>  <b>Place:</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia  <b>Student:</b> Hadeer S. El Sayed (<i>12 Publications</i>)</p>	2018-2019

## Teaching Activities

### Undergraduate

#	Course Title	Extent of Contribution (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	<b>Mechanical Point:</b> This course includes the Fundamental concepts of Newtonian mechanics and waves considering, Cartesian, cylindrical and spherical coordinates Systems.
2	<b>General Physics 1:</b> 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	<b>General Physics 3:</b> 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	<b>Optics:</b> This course includes Snell-Descartes laws, Gauss conditions, Geometric construction of light ray, Dioptres, Lens, Mirrors, Optical fibers, Optics instruments (eye, microscope, ...), experimental determination of the focal distance of a lens.
5	<b>Waves:</b> 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	<b>Thermodynamics:</b> 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	<b>Electrostatics and Magnetostatics:</b> 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	<b>Electromagnetism:</b> 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.
9	<b>Electricity:</b> This course represents a real hands-on laboratory course in introductory electricity and electronics. The students will learn how to use the instruments every electrical engineer needs to know: the oscilloscope, power supply, function generator and multi-meter, measurement of voltage, current, and resistance/resistance, series and parallel electrical circuits, Ohm's law, effect of a magnetic field on moving charges, amplifiers, filters, etc.

### Postgraduate

#	Course Title	Extent of Contribution (Lectures/Tutorials, or Labs, Clinics)
1	Superconductivity (Superconductor Materials)	Lectures and Labs
2	Materials Science	Lectures
3	Materials Physics	Lectures
4	Crystallography and Properties of Materials	Lectures
5	Seminars	Lectures



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

1	<b>Superconductivity (or Superconductor Materials):</b> 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...
2	<b>Materials Science:</b> This course is interdisciplinary, spanning the physics and chemistry of matter, engineering applications, and industrial manufacturing processes. The students will understand how material properties depend on chemical composition and atomic and crystal structure, perform crystallographic calculations, describe the structure and properties of different materials classes; metals, ceramics, polymers, and composites, understand how defects and diffusion in materials affect the material properties, describe how strengthening mechanisms, mechanical- and thermal treatments affect the structure and mechanical properties of metals, as well as learn about the thermal, electrical, dielectric, and magnetic properties of materials. Throughout this course, the students will learn the relationships between composition, structure, process, properties, and performance of a material accordingly.
3	<b>Materials Physics:</b> This course covers the structure of solids and other phases of condensed matter. It covers the description of electronic structure and band theory, describes the effects of atomic and electronic interactions on material properties and how these effects underpin many modern technologies. This course describes basic principles for the properties of various functional materials utilizing quantum mechanical and classical laws and using the necessary approximations. It also expands on how atomic processes operates between many atoms/molecules to create the typical properties of functional materials. This requires the development of a number of physical concepts, based on waves, statistical physics, electromagnetism, and quantum mechanics. Topics covered in this course include crystal lattices, structures, and symmetries, electron and phonon spectra, band calculations and fermi surfaces, dynamics of electrons in static and high frequency electric and magnetic fields, resonance and size effects, electron-electron and electron-phonon interactions, classical & quantum theories of thermal energy & heat capacity, etc.. The course will also focus on providing a basic understanding of materials, in particular semiconductors and superconductors.
4	<b>Crystallography and Properties of Material:</b> 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.
5	<b>Seminars:</b> The main objective of these seminars is to develop the student's ability to conduct investigation, analysis and critical evaluation in both theoretical and experimental research based on their skills in physics. We have considered several topics such as Electron microscope, Superconductivity, Nanomaterials & Nanocomposites, Advanced Ceramics and their Applications, X-ray diffraction, Energy applications, Medical Physics, etc.

### Research Supervision of Master and/or PhD Thesis

#	Name of Student / Degree Type / Proposal Title / Institution	Date
1	<b>Amjad Saad Ali Duaier</b> Supervisor for MSc student - Master of Science in Nanotechnology Thesis title: "Synergistic effect of nanoparticles co-additions on the superconductivity and magnetic flux pinning efficiency of YBCO compound" Institution: Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia	2024 (Completed)
2	<b>Zainab Hussain Al Naji</b> Main Supervisor for MSc student - Master of Science in Nanotechnology	2024 (Completed)

	<p><b>Thesis title:</b> “Metal-oxide-based heterojunction photocatalysts for degradation and removal of cancer-causing organic pollutants from wastewater”</p> <p><b>Institution:</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia</p>	
3	<p><b>Sarah Awwadh Alotaibi</b> <b>Main Supervisor</b> for MSc student - Master of Science in Nanotechnology</p> <p><b>Thesis title:</b> “Enhancement of superconducting performances of <math>YBa_2Cu_3O_{7-δ}</math> compound with co-addition of nanoparticles of ternary and binary perovskite oxides”</p> <p><b>Institution:</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia</p>	2022 (Completed)
4	<p><b>Tahani Mohammed Alfareed</b> <b>Co-Supervisor</b> for MSc student - Master of Science in Nanotechnology</p> <p><b>Thesis title:</b> “Synthesis of novel magnetoelectric nanocomposites as advanced anticancer drug in vitro”</p> <p><b>Institution:</b> Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia</p>	2021 (Completed)
5	<p><b>Co-Supervisor for MSc student – Materials Physics</b></p> <p><b>Thesis title:</b> Phase diagram of Yttrium-based superconductors: Effect of <math>SiO_2</math> nanoparticles addition</p> <p><b>Institution:</b> Faculty of Sciences of Bizerte – University of Carthage, Tunisia</p>	2016 (Completed)
6	<p><b>Co-Supervisor for MSc student – Materials Physics</b></p> <p><b>Thesis title:</b> Impact of the nature of nanoparticles synthesized by hydrothermal method on the electrical properties of Bismuth-based compound</p> <p><b>Institution:</b> Faculty of Sciences of Bizerte – University of Carthage, Tunisia</p>	2016 (Completed)

## Editorial Board and Reviewer Services

### Editorial Board

#	Journal	Link
1	Editorial Board Member - <b>Chemistry International</b> (ISSN 2410-9649).	<a href="https://bosajournals.com/chemint/about/editorialTeam">https://bosajournals.com/chemint/about/editorialTeam</a>
2	Editorial Board Member - <b>Green Nanotechnology</b> (ISSN 2410-9649), which is owned by Sin-Chn Scientific Press Pte. Ltd., Singapore.	<a href="https://ojs.sin-chn.com/index.php/GN/about/editorialTeam">https://ojs.sin-chn.com/index.php/GN/about/editorialTeam</a>
3	Guest Editor (2023) - Special Issue “ <b>Progress in Photocatalytic Nanomaterials and Their Uses in Environmental Remediation and Energy Production</b> ” in <b>Nanomaterials</b> (MDPI, Q1, IF = 5.3).	<a href="https://www.mdpi.com/journal/nanomaterials/special_issues/IUIR750J9S">https://www.mdpi.com/journal/nanomaterials/special_issues/IUIR750J9S</a>
4	Guest Editor (2023) - Special Issue “ <b>Structural, Magnetic, and Catalytic Evaluation of Ferrite-Based Nanomaterials and Nanocomposites</b> ” in <b>Nanomaterials</b> (MDPI, Q1, IF = 5.3).	<a href="https://www.mdpi.com/journal/nanomaterials/special_issues/20529L7TDI">https://www.mdpi.com/journal/nanomaterials/special_issues/20529L7TDI</a>
5	Review Editor (2023) on the Editorial Board of Physical Chemistry and Chemical Physics (specialty sections of <b>Frontiers in Chemistry</b> and <b>Frontiers in Physics</b> ).	<a href="https://www.frontiersin.org/journals/physics/sections/physical-chemistry-and-chemical-physics/editors">https://www.frontiersin.org/journals/physics/sections/physical-chemistry-and-chemical-physics/editors</a>
6	<b>Chemistry International</b> (ISSN 2410-9649).	<a href="https://bosajournals.com/chemint/about/editorialTeam">https://bosajournals.com/chemint/about/editorialTeam</a>
7	Guest Editor (2022) - Special Issue “ <b>Superconducting Nanostructures and Materials</b> ” in <b>Nanomaterials</b> (MDPI, Q1, IF = 5.076).	<a href="https://www.mdpi.com/journal/nanomaterials/special_issues/superconducting_nanostructures#editors">https://www.mdpi.com/journal/nanomaterials/special_issues/superconducting_nanostructures#editors</a>



8	Guest Editor (2022) - Research Topic " <b>Advanced Nanotechnologies for Electrochemical Energy Conversion and Storage</b> " in Frontiers in Energy Research (Impact Factor = 4.008). <a href="https://www.frontiersin.org/research-topics/26608/advanced-nanotechnologies-for-electrochemical-energy-conversion-and-storage">https://www.frontiersin.org/research-topics/26608/advanced-nanotechnologies-for-electrochemical-energy-conversion-and-storage</a>
9	Editorial Member - Current Nanotoxicity and Prevention. <a href="https://benthamscience.com/journals/current-nanotoxicity-and-prevention/editorial-board/">https://benthamscience.com/journals/current-nanotoxicity-and-prevention/editorial-board/</a>
10	Editorial Board Member - <b>Nanotechnology in Science and Engineering (NSE)</b> (Unique Pub International). <a href="https://uniquepubinternational.com/journals/index.php/nse/editorial-board">https://uniquepubinternational.com/journals/index.php/nse/editorial-board</a>
11	Editorial Board Member - <b>Imaging and Radiation Research</b> (EnPress Publisher). <a href="https://systems.enpress-publisher.com/index.php/IRR/about/editorialBoard">https://systems.enpress-publisher.com/index.php/IRR/about/editorialBoard</a>
12	Editorial Board Member - <b>Big Data Analytics for Healthcare</b> (Whioce Publishing Pte. Ltd.). <a href="http://ojs.whioce.com/index.php/BDAH/about/editorialTeam">http://ojs.whioce.com/index.php/BDAH/about/editorialTeam</a>
13	Editorial Board Member - <b>SCIREA Journal of Materials</b> . <a href="http://www.scirea.org/journal/EditorialBoard?JournalID=43000#5064">http://www.scirea.org/journal/EditorialBoard?JournalID=43000#5064</a>
14	Editorial Board Member - <b>SCIREA Journal of Physics</b> . <a href="http://www.scirea.org/journal/EditorialBoard?JournalID=14000#5064">http://www.scirea.org/journal/EditorialBoard?JournalID=14000#5064</a>

### Scientific Committee Member

- **Member of the Program Advisory Committee** - The IX International Scientific Conference «ACTUAL PROBLEMS OF SOLID-STATE PHYSICS» (APSSP-2021), Minsk – Belarus, November 22-26, 2021.
- **Member of the International Advisory Board** - International Virtual Conference on Advanced Materials for Energy and Environmental Applications (ICAME2A -2020), Chennai – India, February 05-06, 2021.
- **Member of the International Advisory Board** - International Virtual Conference on Advanced Materials for Energy and Environmental Applications (ICAME2A -2020), Chennai – India, December 03-04, 2020.

### Reviewer Services

#### Reviewer for Projects

*\*Some of the reviewed projects are listed below (but are not limited to):*

- Science Fund of the Republic of Serbia (more than **12 projects**) - Serbia
- National Fund for Scientific and Technological Research (FONDECYT) - Chile
- National Research and Development Agency (ANID by its acronym in Spanish) of the Science, Technology, Knowledge, and Innovation Ministry – Chile
- EQA España - Evaluation Entity for R&D and Innovation Projects in Spain

#### Examiner for Theses

*\*Some of the examined Theses are listed below (but are not limited to):*

- Bheemanna Khnadre Institute of Technology, Bhalki – India: PhD thesis entitled "STUDIES ON SYNTHESIS, CHARACTERIZATION, TRANSPORT PROPERTIES OF PURE AND METAL OXIDE DOPPED POLYANILINE COMPOSITES FOR SENSOR APPLICATIONS".
- Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University, Dammam – Saudi Arabia: MSc Thesis entitled "Synthesis of La-Ce Based Nanocomposites for the Photocatalytic Abatement of Water Pollutants".

- Kalasalingam Academy of Research and Education, Krishnankoil, Tamilnadu – India: PhD Thesis entitled “DEVELOPMENT OF VARIOUS SALTS ASSORTED PEO BASED BLEND POLYMER ELECTROLYTE FOR SUPERCAPACITOR APPLICATIONS”.
- College of Science, Imam Abdulrahman Bin Faisal University, Dammam – Saudi Arabia: PhD Thesis entitled “Impact of nano-Dy<sub>2</sub>O<sub>3</sub> particles on the structure, superconducting and flux pinning properties of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> polycrystalline”.

### Reviewer for Books

*\*Titles of reviewed books were not provided so that reviewer identity remains anonymous:*

- **Taylor & Francis** (book proposals on the production of energy from waste, green energy technologies, nanomaterials, etc.).
- **Elsevier** (book proposals on materials science, spinels, ceramics, properties of materials, technology, engineering, wastewater treatment, photocatalysis, energy storage devices, etc.).
- **Springer** (book proposals on materials science, nanomaterials, characterization techniques, medical applications of nanomaterials, etc.).

### Reviewer for Conferences

*\*Some examples of conferences for which I served as reviewer are listed below (but are not limited to):*

- 2nd International Conference on New Materials, Machinery and Vehicle Engineering (NMMVE 2023), Guiyang – China.
- Transactions on Magnetics – Conferences.
- Member of the Program Advisory Committee in the IX International Scientific Conference «ACTUAL PROBLEMS OF SOLID-STATE PHYSICS» (APSSP-2021), Minsk – Belarus.
- Member of the International Advisory Board in the International Virtual Conference on Advanced Materials for Energy and Environmental Applications (ICAME2A), Chennai – India (2021).
- Applied Superconductivity Conference 2020, Florida – USA.
- 3rd International Conference on Material Strength and Applied Mechanics (MSAM 2020).
- Member of the International Advisory Board in the International Virtual Conference on Advanced Materials for Energy and Environmental Applications (ICAME2A), Chennai – India (2020).
- 7th Global Conference on Materials Science and Engineering (CMSE2018), China.

### Reviewer for Journals

#### ELSEVIER

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|--|--|
| <ul style="list-style-type: none"> <li>• Composites Part B: Engineering (Elsevier)</li> <li>• Journal of Alloys and Compounds (Elsevier)</li> <li>• Ceramics International (Elsevier)</li> <li>• Journal of Materials Research and Technology (Elsevier)</li> <li>• Materials Letters (Elsevier)</li> <li>• Journal of Molecular Structure (Elsevier)</li> <li>• Inorganic Chemistry Communications (Elsevier)</li> <li>• Materials Science for Energy Technologies (Elsevier)</li> <li>• Defense Technology (Elsevier)</li> <li>• Materials Science and Engineering: B (Elsevier)</li> <li>• Journal of Physics and Chemistry of Solids (Elsevier)</li> <li>• Journal of Magnetism and Magnetic Materials (Elsevier)</li> <li>• Materials Chemistry and Physics (Elsevier)</li> <li>• Cryogenics (Elsevier)</li> <li>• Materials &amp; Design (Elsevier)</li> </ul> | <ul style="list-style-type: none"> <li>• Journal of Molecular Liquids (Elsevier)</li> <li>• Diamond &amp; Related Materials (Elsevier)</li> <li>• Materials Today: Proceedings (Elsevier)</li> <li>• Chemical Data Collections (Elsevier)</li> <li>• Results in Physics (Elsevier)</li> <li>• Journal of Solid State Chemistry (Elsevier)</li> <li>• Results in Engineering (Elsevier)</li> <li>• Results in Chemistry (Elsevier)</li> <li>• Microchemical Journal (Elsevier)</li> <li>• Optical Materials (Elsevier)</li> <li>• Optics and Laser Technology (Elsevier)</li> <li>• Defence Technology (Elsevier)</li> <li>• Journal of Drug Delivery Science and Technology (Elsevier)</li> <li>• Solid State Sciences (Elsevier)</li> </ul> |
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- Diamond and Related Materials (Elsevier)
- Materials Characterization (Elsevier)
- Physica B: Condensed Matter (Elsevier)
- Journal of Rare Earths (Elsevier)
- Materials Today Communications (Elsevier)
- Surfaces and Interfaces (Elsevier)
- Arabian Journal of Chemistry (Elsevier)
- Journal of Taibah University for Science (Elsevier)
- Journal of Energy Storage (Elsevier)
- Radiation Physics and Chemistry (Elsevier)

### SPRINGER

- Journal of Electronic Materials (Springer)
- Journal of Materials Science: Materials in Electronics (Springer)
- Journal of Superconductivity and Novel Magnetism (Springer)
- Rare Metals (Springer)
- Metals and Materials International (Springer)
- Journal of Nanostructure in Chemistry (Springer)

### Royal Society of Chemistry (RSC)

- Nanoscale Advances (RSC)
- Nanoscale (RSC)

### Wiley

- Journal of the American Ceramic Society (Wiley)
- Crystal Research and Technology (Wiley)
- Physica Status Solidi b (Wiley)
- Advanced Physics Research (Wiley)

### IEEE

- IEEE Transactions on Magnetics (IEEE)

### MDPI

- Nanomaterials (MDPI)
- Materials (MDPI)
- Condensed Matter (MDPI)
- Magnetism (MDPI)
- Crystals (MDPI)
- Catalysts (MDPI)
- Sensors (MDPI)
- Energies (MDPI)

### AIP

- The Journal of Chemical Physics (AIP)

### Others

- ACS Applied Nano Materials (ACS)
- ACS Applied Engineering Materials (ACS)
- ACS Omega (ACS)
- Nanotechnology Reviews (De Gruyter)
- Zeitschrift für Physikalische Chemie (De Gruyter)
- Journal of Nanomaterials (Hindawi)
- Advances in Materials Science and Engineering (Hindawi)
- ECS Journal of Solid State Science and Technology (IOP Science)
- Advances in Applied Ceramics: Structural, Functional and Bioceramics (Taylor & Francis)
- Materials Science and Technology (Taylor & Francis)
- Current Nanotoxicity and Prevention (Bentham)

- Case Studies in Chemical and Environmental Engineering (Elsevier)
- Plant Physiology and Biochemistry (Elsevier)
- Environmental Nanotechnology, Monitoring and Management (Elsevier)
- World Neurosurgery (Elsevier)
- AEÜ - International Journal of Electronics and Communications (Elsevier)
- Heliyon (Elsevier)
- Journal of the Indian Chemical Society (Elsevier)
- Scientific African (Elsevier)

- The European Physical Journal Plus (Springer)
- Applied Physics A (Springer)
- Carbon Letters (Springer)
- SN Applied Sciences (Springer)
- Waste and Biomass Valorization (Springer)
- Brazilian Journal of Physics (Springer)

- RSC Advances (RSC)
- Journal of Materials Chemistry B (RSC)

- International Journal of Chemical Kinetics (Wiley)
- Microscopy Research and Technique (Wiley)
- International Journal of Quantum Chemistry (Wiley)

- IEEE Transactions on Applied Superconductivity (IEEE)

- Metals (MDPI)
- Coatings (MDPI)
- Polymers (MDPI)
- Applied Sciences (MDPI)
- Biomimetics (MDPI)
- Photonics (MDPI)

- AIP Advances (AIP)

- Surface Review and Letters (World Scientific Publishing)
- International Journal of Modern Physics B (World Scientific Publishing)
- Indian Journal of Science and Technology
- Al-Bahir Journal for Engineering and Pure Sciences
- Advanced Materials Letters (VBRI Press)
- International Journal of Nanoparticles (Inderscience publishers)
- Archives of Metallurgy and Materials (Sciendo)
- Journal of Advances in Physics (cirworld)
- Cancer Biotherapy and Radiopharmaceuticals (Libertpub)

## Professional, Research and Media Websites

### Professional & Research Websites

#	Account	Link
	IRMC – IAU University	<a href="https://www.iau.edu.sa/en/colleges/institute-for-research-and-medical-consultations-irmc/faculty/dr-yassine-slimani">https://www.iau.edu.sa/en/colleges/institute-for-research-and-medical-consultations-irmc/faculty/dr-yassine-slimani</a>
	Google Scholar	<a href="https://scholar.google.fr/citations?user=vRCEAgQAAAAJ&amp;hl=en">https://scholar.google.fr/citations?user=vRCEAgQAAAAJ&amp;hl=en</a>
	Scopus Author ID	<a href="https://www.scopus.com/authid/detail.uri?authorId=57105963800">https://www.scopus.com/authid/detail.uri?authorId=57105963800</a>
	ORCID	<a href="http://orcid.org/0000-0002-2579-1617">http://orcid.org/0000-0002-2579-1617</a>
	Web of Science	<a href="https://www.webofscience.com/wos/author/record/E-5054-2017">https://www.webofscience.com/wos/author/record/E-5054-2017</a>
	Researchgate	<a href="https://www.researchgate.net/profile/Yassine_Slimani2">https://www.researchgate.net/profile/Yassine_Slimani2</a>
	Mendeley	<a href="https://www.mendeley.com/profiles/yassine-slimani2/">https://www.mendeley.com/profiles/yassine-slimani2/</a>
	Semantic Scholar	<a href="https://www.semanticscholar.org/author/Yassine-Slimani/51336345?sort=year">https://www.semanticscholar.org/author/Yassine-Slimani/51336345?sort=year</a>
	Academia	<a href="https://iabfu.academia.edu/YassineSlimani">https://iabfu.academia.edu/YassineSlimani</a>
	Kudos	<a href="https://www.growkudos.com/profile/yassine_slimani">https://www.growkudos.com/profile/yassine_slimani</a>
	Loop	<a href="https://loop.frontiersin.org/people/1035694/overview">https://loop.frontiersin.org/people/1035694/overview</a>

### Social Media Websites

#	Account	Link
	LinkedIn	<a href="http://www.linkedin.com/in/yassine-slimani-86b331a9">http://www.linkedin.com/in/yassine-slimani-86b331a9</a>
	Facebook	<a href="https://www.facebook.com/people/Yassine-Slimani/100009415240775">https://www.facebook.com/people/Yassine-Slimani/100009415240775</a>
	X (Twitter)	<a href="https://x.com/SlimaniYassine0">https://x.com/SlimaniYassine0</a>
	YouTube	<a href="https://www.youtube.com/channel/UCVOR8JwRcsBaO4dQ_iK9gWQ">https://www.youtube.com/channel/UCVOR8JwRcsBaO4dQ_iK9gWQ</a>

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

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

### Last Update

Dr. Yassine Slimani  
September 2, 2024