



FACULTY FULL NAME

**Prof. Munirah Abdullah Al-Messiere**

**Professor, Physics Department  
College of Science  
Imam Abdulrahman Bin Faisal University (IAU)**

Personal Data

Nationality | Saudi Arabia  
Date of Birth | 07/13/1975  
Department | Physics Department  
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Research Links

Account	Link
Google Scholar	<a href="https://scholar.google.com/citations?user=Arwx5q0AAAAJ&amp;hl=ar">https://scholar.google.com/citations?user=Arwx5q0AAAAJ&amp;hl=ar</a>
ORCID	<a href="https://orcid.org/0000-0003-1651-3591">https://orcid.org/0000-0003-1651-3591</a>
Web of Science	<a href="https://www.webofscience.com/wos/author/record/A-3325-2015">https://www.webofscience.com/wos/author/record/A-3325-2015</a>

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
April 2022	Full Professor	Imam Abdulrahman Bin Faisal University	Dammam
April 2018	Associate Prof.	Imam Abdulrahman Bin Faisal University	Dammam
July 2010	PhD in Physics	King Faisal University	Dammam
March 2003	MS in Physics	College Of Science	Dammam
June 1997	Bachelors in physics	College Of Science	Dammam

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

<b>PhD</b>	Laser – Induced Fluorescence Reemission-Absorption of Petroleum Fuels
<b>Master</b>	Some studies and application on phase objects using laser speckle
<b>Fellowship</b>	-

Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work			Date
Chairman	Physics Department - College of science	Imam Abdulrahman Bin Faisal University	Dammam	2014-2018
Chairman	Biophysics Department- Institute for Research and Medical Consultations	Imam Abdulrahman Bin Faisal University	Dammam	2018- until now

Honors and Awards

No.	Honors and Awards	Date
1	“Top 10 Highly Published Faculty in IAU - 2020” in the University President’s List of Distinguished Researchers – 2020. Imam Abdulrahman Bin Faisal University, Dammam - Saudi Arabia.	5th May 2021
2	“Top 10 Highly Cited Faculty in IAU - 2020” in the University President’s List of Distinguished Researchers – 2020. Imam Abdulrahman Bin Faisal University, Dammam - Saudi Arabia.	5th May 2021
3	“ Highly Published Faculty in Science and Management Trak IAU - 2020” in the University President’s List of Distinguished Researchers – 2020. Imam Abdulrahman Bin Faisal University, Dammam - Saudi Arabia.	5th May 2021
4	“ Highly Published Faculty in College of Science in IAU - 2020” in the University President’s List of Distinguished Researchers – 2020. Imam Abdulrahman Bin Faisal University, Dammam - Saudi Arabia.	5th May 2021
5	“WORLD’S TOP 2% RANKING SCIENTISTS for the Year 2019” - 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>	November 2020
6	"Updated science-wide author databases of standardized citation indicators" <a href="https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/6?fbclid=IwAR291rMquv5w-MgGgP-wnYIYT9mVF3uHkUY3bed-mgdYwDuU3rDqNbSDovl">https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/6?fbclid=IwAR291rMquv5w-MgGgP-wnYIYT9mVF3uHkUY3bed-mgdYwDuU3rDqNbSDovl</a>	October 2023



## Scientific Achievements

### Published Refereed Scientific Research

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	Taher Ghrib, Rawdha Brin, Amel Lafi Al-otaibi, <b>Munirah Abdullah Al-messiere</b>	Thermal and Structural Study of Mono- and Multi-Layered Thin Films Composed of CuAlS <sub>2</sub> Chalcogenide	Chinese Physical Society 30 ,2013, 108503 <a href="https://doi.org/10.1088/0256-307X/30/10/108503">https://doi.org/10.1088/0256-307X/30/10/108503</a>
2	Taher Ghrib, <b>Munirah Abdullah Al-Messiere</b> , and Amal Lafi Al- Otaibi	Synthesis and Characterization of ZnO/ZnS Core/Shell Nanowires	Journal of Nanomaterial 82014, 8 <a href="https://doi.org/10.1155/2014/989632">https://doi.org/10.1155/2014/989632</a>
3	Ibtissem Ben Assaker, Mounir Gannouni, Jamila Ben Naceur, <b>Munirah Abdullah Almessiere</b> , Amal Lafy Al-Otaibi, Taher Ghrib, Shouwen Shen, Radhouane Chtourou	Electrodeposited ZnIn <sub>2</sub> S <sub>4</sub> onto TiO <sub>2</sub> thin films for semiconductor-sensitized photocatalytic and photoelectrochemical applications	Applied Surface Science 351 ,2015, 927–934 . <a href="https://doi.org/10.1016/j.apsusc.2015.06.038">https://doi.org/10.1016/j.apsusc.2015.06.038</a>
4	<b>Munirah Abdullah Almessiere</b> , Amal Lafy Al-Otaibia , Ibtissem Ben Assakerb, Taher Ghriba, Radhouane Chtouroub	Electrodeposited and characterization of Ag-Sn-S semiconductor thin films	Materials Science in Semiconductor Processing 40 ,2015),267–275. <a href="https://doi.org/10.1016/j.mssp.2015.07.003">https://doi.org/10.1016/j.mssp.2015.07.003</a>
5	M.K. Ben Salem, <b>M. A. Almessiere</b> , A. L. Al-Otaibi, M. Ben Salem, F. Ben Azzouz	Effect of SiO <sub>2</sub> nano-particles and nano-wires on microstructure and pinning properties of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-d</sub>	Journal of Alloys and Compounds 657,2016,286-295 <a href="https://doi.org/10.1016/j.jallcom.2015.10.077">https://doi.org/10.1016/j.jallcom.2015.10.077</a>
6	Taher Ghrib, Amal Lafy Al-Otaibi, <b>Munirah Abdullah Almessiere</b> , Ibtissem Ben Assaker	High Thermoelectric Figure of Merit of Ag <sub>8</sub> Sn <sub>5</sub> S <sub>6</sub> Component Prepared by Electrodeposition Technique	Chinese Physics Letters 32 ,2015, 127402 <a href="https://doi.org/10.1088/0256-307X/32/12/127402">https://doi.org/10.1088/0256-307X/32/12/127402</a>
7	E. Hannachi , Y. Slimani , M. K. Ben Salem , A. Hamrita , A. L. Al-Otaibi , <b>M. A. Almessiere</b> , M. Ben Salem , F. Ben Azzouz	Fluctuation induced conductivity studies in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> compound embedded by superconducting	Indian Journal of Physics 90 ,2016, 016-0839-4 <a href="https://doi.org/10.1007/s12648-016-0839-4">https://doi.org/10.1007/s12648-016-0839-4</a>
8	A. L. Al-Otaibi, <b>M. A. Almessiere</b> , M. Ben Salem, F. Ben Azzouz	Excess conductivity analysis in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-d</sub> added with SiO <sub>2</sub> nano-particles and nano-wires: Comparative study	Modern Physics Letters 30 ,2016 ,1650242 DOI: 10.1142/S0217984916502420
9	Fayroz A. Sabah, Naser M. Ahmed, Z. Hassan, <b>Munirah Abdullah Almessiere</b>	Effect of Light on the Sensitivity of CuS Thin Film EGFET Implemented as pH Sensor	International Journal of Electrochemical Science 11 ,2016, 4380 – 4388

			doi: 10.20964/2016.06.51
10	F. A. Sabah , N. M. Ahmedz. Hassan, <b>M. A. Almessiere</b>	Study Effects Of Thin Film Thickness On The Behavior Of Cus Egfet Implemented As Ph Sensor	Digest Journal of Nanomaterials and Biostructures 11, 2016, 787 – 793
11	Q.N. Abdullah, F.K.Yam , K.H.Mohmood, Z.Hassan, M.A.Qaeed, M.Bououdina , <b>M.A.Almessiere</b> , A.L.Al-Otaibi , S.A.Abdulateef	Free growth of one-dimensional $\beta$ -Ga2O3 Nanostructures including nanowires, nanobelts and nanosheets using a thermal evaporation method	Ceramics International 42,2016,13343–13349 <a href="https://doi.org/10.1016/j.ceramint.2016.04.165">https://doi.org/10.1016/j.ceramint.2016.04.165</a>
12	N. M. Abd-Alghafour ,Naser M. Ahmed ,Z. Hassan , <b>Munirah Abdullah Almessiere</b> , M. Bououdina, Naif H. Al-Hardan	High sensitivity extended gate effect transistor based on V2O5 nanorods	Journal of Materials Science: Materials in Electronics 28,2016, 1364-1369 <a href="https://doi.org/10.1007/s10854-016-5669-9">https://doi.org/10.1007/s10854-016-5669-9</a>
13	Ahmed F. Abdulrahmna, Sabah M. Ahmed, Naser M. Ahmed, <b>Munirah A. Almessiere</b>	Different Substrates Effects On The Topography And The Structure Of The ZnO Nanorods Grown By Chemical Bath Deposition Method	Digest Journal of Nanomaterials and Biostructures 11,2016 ,1007 - 1016
14	A. F. Abdulrahmana, S. M. Ahmedb, N. M. Ahmed , <b>M. A.Almessiere</b>	Novel Process Using Oxygen And Air Bubbling In Chemical Bath Deposition Method For Vertically Well Aligned Arrays Of ZnO Nanorods	Digest Journal of Nanomaterials and Biostructures 11,2016, 1073-1082
15	Fayroz A. Sabah, Naser M. Ahmed, Z. Hassan, <b>Munirah Abdullah Almessiere</b> , Naif H. Al-Hardan	Sensitivity of CuS Membrane pH Sensor With and Without MOSFET	JOM 69,2017, 1134-1142 DOI: 10.1007/s11837-016-2165-x
16	Fayroz A. Sabah, Naser M. Ahmed, Z. Hassan and <b>Munirah Abdullah Almessiere</b>	Using Deionized Water with Ethanol as a Solvent of CuS EGFET as pH Sensor	Materials Science Forum 886 ,2016,37-41 <a href="https://doi.org/10.4028/www.scientific.net/MSF.886.37">https://doi.org/10.4028/www.scientific.net/MSF.886.37</a>
17	A. N. J. Al-Daghmana, K. Ibrahima, N. M. Ahmeda, <b>M. A. Al Messiere</b>	Effect Of Doping By Stronger Ions Salt On The Microstructure Of Conductive Polyaniline-Es: Structure And Properties	journal of Optoelectronics and Biomedical Materials 8,2016, 175-183
18	Forat H. Alsultany, Z. Hassan, Naser M. Ahmed, <b>Munirah Abdullah Almessiere</b>	Catalytic growth of one-dimensional single-crystalline ZnO nanostructures on glass substrate by vapor transport	Ceramics International 43,2017, 610-616 <a href="https://doi.org/10.1016/j.ceramint.2016.09.202">https://doi.org/10.1016/j.ceramint.2016.09.202</a>
19	<b>Munirah Abdullah Almessiere</b> , Amal lafy Al-Otaibi ,Faten ben Azzouz	Superconducting properties of nano-sized SiO2 added YBCO thick film on Ag substrate	Journal Of Indian Physics Indian 91,2017 ,1-10 DOI: 10.1007/s12648-017-1008-0
20	Taher Ghrib, <b>Munirah Abdullah Almessiere</b> , Amal Lafy Al-Otaibi, Sami Brini ,Radhouane Chtourou	Theoretical Adjustment of Necessary Conditions for Enhancing Figure of Merit of Thin Thermoelectric Layers	J. Heat Transfer 139, 2017, 1-8 <a href="https://doi.org/10.1115/1.4036039">https://doi.org/10.1115/1.4036039</a>
21	Fayroz A. Sabaha, Naser M. Ahmeda, Z. Hassanc, <b>Munirah Abdullah Almessiere</b>	A novel CuS thin film deposition method by laser-assisted sprayphotolysis deposition and its application to EGFET	Sensors and Actuators B 247 ,2017, 197–215 <a href="https://doi.org/10.1016/j.snb.2017.03.020">https://doi.org/10.1016/j.snb.2017.03.020</a>
22	Fayroz A. Sabaha, Naser M. Ahmeda, Z. Hassanc, <b>Munirah Abdullah Almessiere</b>	Influences of substrate type on the pH sensitivity of CuS thin films EGFET prepared by spray pyrolysis deposition	Materials Science in Semiconductor Processing 63 (2017) 269–278.

			<a href="https://doi.org/10.1016/j.mssp.2017.02.032">https://doi.org/10.1016/j.mssp.2017.02.032</a>
23	Ahmed F. Abdulrahman, Ahmed, Sabah M. Ahmed, Naser Alrawi <b>Munirah Abdullah Almessiere</b>	Fabrication, characterization of ZnO nanorods on the flexible substrate (Kapton tape) via chemical bath deposition for UV photodetector applications	American Institute of Physics 1875, 2017, 020004
24	A. F. Abdulrahman, S. M. Ahmed, <b>M. A. Almessiere</b>	Effect Of The Growth Time On The Optical Properties Of Zno Nanorods Grown By Low Temperature Method	Digest Journal of Nanomaterials and Biostructures 12, 2017, 1001-1009
25	Taher Ghrib, Amal Lafy Al-Otaibi, <b>Munirah Abdullah Almessiere</b> , Amel Ashahri, Imen Masoudi	Structural, optical and thermal properties of the Ce doped YAG synthesized by solid state reaction method	Thermochimica Acta 654(2017) 35-39. <a href="https://doi.org/10.1016/j.tca.2017.04.010">https://doi.org/10.1016/j.tca.2017.04.010</a>
26	Hiba S. Rasheed, Naser M. Ahmed, M.Z. Matjafri, Naif H. Al-Hardan, Munirah Abdullah Almessiere, Fayroz A. Sabah, Nabeel Z. Al-Hazeem	Multilayer ZnO/Pd/ZnO Structure as Sensing Membrane for Extended-Gate Field-Effect Transistor (EGFET) with High pH Sensitivity	Journal of Electronic Materials 46, 2017, 5901-5908 <a href="https://doi.org/10.1007/s11664-017-5580-z">https://doi.org/10.1007/s11664-017-5580-z</a>
27	Fayroz A. Sabaha, Naser M. Ahmeda, Z. Hassanc, <b>Munirah Abdullah Almessiere</b>	Influence of CuS membrane annealing time on the sensitivity of EGFET pH sensor	Materials Science in Semiconductor Processing, 71, 2017, 217–225. <a href="https://doi.org/10.1016/j.mssp.2017.07.001">https://doi.org/10.1016/j.mssp.2017.07.001</a>
28	M. Salem, I. Massoudi, <b>Munirah A. Almessiere</b> , Amal L. Al-Otaibi, Nada M. Alghamdi, M. Gaidi, M. A. El Khakani, K. Khirouni,	Structural, morphological and optoelectronic properties of porous silicon combined alumina coating film deposited by PLD	Journal of Materials Science: Materials in Electronics 28, 2017, 15768-15774 <a href="https://doi.org/10.1007/s10854-017-7470-9">https://doi.org/10.1007/s10854-017-7470-9</a>
29	<b>M.A. Almessiere</b> , Y. Slimani, A. Baykal	Structural and magnetic properties of Ce-doped strontium hexaferrite	Ceramics International 44, 2018, 9000-9008 <a href="https://doi.org/10.1016/j.ceramint.2018.02.101">https://doi.org/10.1016/j.ceramint.2018.02.101</a>
30	Y. Slimani, H. Güngüneş, M. Nawac, A. Manikandan, H.S. El Sayed, <b>M.A. Almessiere</b> , H. Sözeri, S.E. Shirsath, I. Ercan, A. Baykal	Magneto-optical and microstructural properties of spinel cubic copper ferrites with Li-Al co-substitution	Ceramics International 44, 2018, 14242-14250 <a href="https://doi.org/10.1016/j.ceramint.2018.05.028">https://doi.org/10.1016/j.ceramint.2018.05.028</a>
31	<b>M.A. Almessiere</b> , Y. Slimani, H. Güngüneş, H.S. El Sayed, A. Baykal	AC susceptibility and Mossbauer study of Ce <sup>3+</sup> ion substituted SrFe <sub>12</sub> O <sub>19</sub> nano-hexaferrites	Ceramics International 44, 2018, 10470-10477 <a href="https://doi.org/10.1016/j.ceramint.2018.03.064">https://doi.org/10.1016/j.ceramint.2018.03.064</a>
32	<b>M.A. Almessiere</b> , Y. Slimani, H.S. El Sayed, A. Baykal	Ce-Y co-substituted strontium nano-hexaferrites : AC susceptibility and Mossbauer studies	Ceramics International 44, 2018, 12520-12527 <a href="https://doi.org/10.1016/j.ceramint.2018.04.046">https://doi.org/10.1016/j.ceramint.2018.04.046</a>
33	<b>M.A. Almessiere</b> , S. Dabagh, Y. Slimani, K. Chaudhary, J. Ali, A. Baykal	Investigation of structural and magnetic properties on Mg <sub>1-x</sub> Zn <sub>x</sub> Fe <sub>2-x</sub> Al <sub>x</sub> O <sub>4</sub> (0.0 ≤ x ≤ 0.8) nanoparticles	Journal of Inorganic and Organometallic Polymers and Materials 28, 2018, 1-12 DOI: 10.1007/s10904-017-

			0764-9
34	S. Asiri, S.Guner, A. D. Korkmaz, Md Amir, K. M. Batoo, <b>M.A. Almessiere</b> , H. Gungunes, H. Sozeri, A.Baykal,	Magneto-optical properties of BaCryFe <sub>12-y</sub> O <sub>19</sub> (0.0 ≤ y ≤ 1.0) Hexaferrites	Journal of Magnetism and Magnetic Materials 451,2018, 463-472 <a href="https://doi.org/10.1016/j.jmmm.2017.11.100">https://doi.org/10.1016/j.jmmm.2017.11.100</a>
35	<b>Munirah A. Almessiere</b> , Naser M. Ahmed, I. Massoudi, Amal L. Al-Otaibi, Amal A. Al-shehri, M.Al Shafouri,	Study of the structural and luminescent properties of Ce <sup>3+</sup> and Eu <sup>3+</sup> co-doped YAG synthesized by solid state reaction	Optik 158,2018, 152-163 <a href="https://doi.org/10.1016/j.ijleo.2017.12.031">https://doi.org/10.1016/j.ijleo.2017.12.031</a>
36	S. Asiri, M. Sertkol, S. Guner,H. Gungune, K.M. Batoo, T.A.Saleh, H. Sozeri, <b>M.A.Almessiere</b> , A.Manikandan, A. Baykal	Hydrothermal synthesis of CoyZnyMn <sub>1-2y</sub> Fe <sub>2</sub> O <sub>4</sub> nanoferrites: Magneto-optical investigation	Ceramic international 44,2018, 5751-5759 <a href="https://doi.org/10.1016/j.ceramint.2017.12.233">https://doi.org/10.1016/j.ceramint.2017.12.233</a>
37	<b>M.A. Almessiere</b> , Y. Slimani, H.S. El Sayed, A. Baykal	Structural and magnetic properties of Ce-Y substituted strontium nanohexaferrites	Ceramic international 44,2018, 12511-12519 <a href="https://doi.org/10.1016/j.ceramint.2018.04.045">https://doi.org/10.1016/j.ceramint.2018.04.045</a>
38	Y. Slimania, <b>M.A. Almessiere</b> , A. Baykal	AC susceptibility study of Cu substituted BaFe <sub>12</sub> O <sub>19</sub> nanohexaferrites	Ceramics International 44 (2018) 13097–13105 <a href="https://doi.org/10.1016/j.ceramint.2018.04.130">https://doi.org/10.1016/j.ceramint.2018.04.130</a>
39	Q.N. Abdullah, A.R. Ahmed, A.M. Ali, F.K. Yam, Z. Hassan, M. Bououdina, <b>M.A. Almessiere</b>	Growth and characterization of GaN nanostructures under various ammoniating time with fabricated Schottky gas sensor based on Si substrate	Superlattices and Microstructures 117,2018, 92-104 <a href="https://doi.org/10.1016/j.spmi.2018.02.011">https://doi.org/10.1016/j.spmi.2018.02.011</a>
40	<b>M.A. Almessiere</b> , Y. Slimani, A. Baykal	Exchange spring magnetic behavior of Sr <sub>0.3</sub> Ba <sub>0.4</sub> Pb <sub>0.3</sub> Fe <sub>12</sub> O <sub>19</sub> /(CuFe <sub>2</sub> O <sub>4</sub> ) <sub>x</sub> nanocomposites fabricated by a one-pot citrate sol-gel combustion method	Journal of Alloys and Compounds 762,2018, 389-397 <a href="https://doi.org/10.1016/j.jallcom.2018.05.232">https://doi.org/10.1016/j.jallcom.2018.05.232</a>
41	<b>M.A. Almessiere</b> , Y. Slimani,A. Baykal	Structural, morphological and magnetic properties of hard/soft SrFe <sub>12-x</sub> V <sub>x</sub> O <sub>19</sub> /(Ni <sub>0.5</sub> Mn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> ) <sub>y</sub> nanocomposites: Effect of vanadium substitution	Journal of Alloys and Compounds.767,2018, 966-975 <a href="https://doi.org/10.1016/j.jallcom.2018.07.212">https://doi.org/10.1016/j.jallcom.2018.07.212</a>
42	R. A. Al-Mohsin, A. L. Al-Otaibi, <b>M. A. Almessiere</b> ,H. Al-badairy, Y. Slimani, F. Ben Azzouz	Comparison of the Microstructure and Flux Pinning Properties of Polycrystalline YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-d</sub> Containing Zn <sub>0.95</sub> Mn <sub>0.05</sub> O or Al <sub>2</sub> O <sub>3</sub> Nanoparticles	Journal of Low Temperature Physics 192,2018, 100-116 DOI: 10.1007/s10909-018-1895-2
43	<b>Munirah Abdullah Almessiere</b>	Study of Temperature Dependence of Photoluminescence and Raman Scattering of (Zn, Al) Substituted Magnesium Spinel Ferrite	Current Nanoscience 14, 2018, 1-10 doi.10.2174/1573413714666180726144510
44	Md. Amir, H. Gungunes, A. Baykal, <b>M. A. Almessiere</b> , H.S. ozeri, I. Ercan, M. Sertkol, S. Asiri, A. Manikandan	Effect of Annealing Temperature on Magnetic and Muossbauer Properties of ZnFe <sub>2</sub> O <sub>4</sub> Nanoparticles by Sol-gel Approach	Journal of Superconductivity and Novel Magnetism 31,2018, 3347-3356. <a href="https://doi.org/10.1007/s10948-018-4610-2">https://doi.org/10.1007/s10948-018-4610-2</a>



45	<b>M.A. Almessiere</b> , Y. Slimani, N.A. Tashkandi, A. Baykal, M.F. Saraç, A.V. Trukhanove, İ. Ercan, İ. Belenli, B. Özçelik	The effect of Nb substitution on magnetic properties of BaFe <sub>12</sub> O <sub>19</sub> nanohexaferrites	Ceramics International 45 ,2019, 1691–1697 <a href="https://doi.org/10.1016/j.ceramint.2018.10.048">https://doi.org/10.1016/j.ceramint.2018.10.048</a>
46	<b>M.A. Almessiere</b> , R. Altuwiriqi, M.A. Gondal, R.K. Aldakheel, H.F. Alotaibi	Qualitative and quantitative analysis of human nails to find correlation between nutrients and vitamin D deficiency using LIBS and ICP-AES	Talanta 185 ,2018, 61–70 <a href="https://doi.org/10.1016/j.talanta.2018.03.057">https://doi.org/10.1016/j.talanta.2018.03.057</a>
47	<b>M.A. Almessiere</b> , Y. Slimani, H. Güngüneş, H.S. El Sayed, A. Baykal	AC susceptibility and hyperfine interactions of vanadium substituted barium nanohexaferrites	Ceramics International 44 ,2018, 17749–17758 <a href="https://doi.org/10.1016/j.ceramint.2018.06.242">https://doi.org/10.1016/j.ceramint.2018.06.242</a>
48	<b>MA Almessiere</b> , Y Slimani, HS El Sayed, A Baykal	Ca 2+ and Mg 2+ incorporated barium hexaferrites: structural and magnetic properties	Journal of Sol-Gel Science and Technology 88,2018, 628-638 <a href="https://doi.org/10.1007/s10971-018-4853-1">https://doi.org/10.1007/s10971-018-4853-1</a>
49	Husnen R Abd, Z Hassan, Naser M Ahmed, <b>Munirah Abdullah Almessiere</b> , AF Omar, Forat H Alsultany, Fayroz A Sabah, Ummu Shuhada Osman	Effect of annealing time of YAG: Ce 3+ phosphor on white light chromaticity values	Journal of Electronic Materials 47,2018, 1638-1646 <a href="https://doi.org/10.1007/s11664-017-5968-9">https://doi.org/10.1007/s11664-017-5968-9</a>
50	<b>M.A. Almessiere</b> , Y. Slimani, A. Baykal	Impact of Nd-Zn co-substitution on microstructure and magnetic properties of SrFe <sub>12</sub> O <sub>19</sub> nanohexaferrite	Ceramics International 45 ,2019, 963–969 <a href="https://doi.org/10.1016/j.ceramint.2018.09.272">https://doi.org/10.1016/j.ceramint.2018.09.272</a>
51	Y. Slimani, <b>M.A. Almessiere</b> , E.Hannachi, A. Baykal, A. Manikandan, M. Mumtaz, F. Ben Azzouz	Influence of WO <sub>3</sub> nanowires on structural, morphological and flux pinning ability of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> superconductor	Ceramics International 45 ,2019, 2621–2628 <a href="https://doi.org/10.1016/j.ceramint.2018.10.201">https://doi.org/10.1016/j.ceramint.2018.10.201</a>
52	<b>M.A. Almessiere</b> , A. Demir Korkmaz, Y. Slimani, M. Nawa, S. Ali, A. Baykal	Magneto-optical properties of rare earth metals substituted Co-Zn spinel nanoferrites	Ceramics International 45 (2019) 3449–3458 DOI: 10.1016/j.ceramint.2018.10.260
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160	RK Aldakheel, MA Gondal, MM Nasr, <b>M.A. Almessiere</b> , N Idris	Spectral analysis of Miracle Moringa tree leaves using X-ray photoelectron, laser induced breakdown	Talanta 217,2020, 121062 <a href="https://doi.org/10.1016/j.talanta.2020.121062">https://doi.org/10.1016/j.talanta.2020.121062</a>
161	Y Slimani, <b>M.A. Almessiere</b> , Sagar E Shirsath, E Hannachi, Ghulam Yasin, A Baykal, B Ozçelik, I Ercan	Investigation of structural, morphological, optical, magnetic and dielectric properties of (1-x) BaTiO <sub>3</sub> /xSr <sub>0.92</sub> Ca <sub>0.04</sub> Mg <sub>0.04</sub> Fe <sub>12</sub> O <sub>19</sub> composites	Journal of Magnetism and Magnetic Materials,2020, 166933 <a href="https://doi.org/10.1016/j.jmmm.2020.166933">https://doi.org/10.1016/j.jmmm.2020.166933</a>
162	<b>M.A. Almessiere</b> , AV Trukhanov, FA Khan, Y Slimani, N Tashkandi, VA Turchenko, TI Zubar, DI Tishkevich, SV Trukhanov, LV Panina, A Baykal	Correlation between microstructure parameters and anti-cancer activity of the [Mn <sub>0.5</sub> Zn <sub>0.5</sub> ](Eu <sub>x</sub> Nd <sub>x</sub> Fe <sub>2-2x</sub> )O <sub>4</sub> nanoferrites produced by modified sol-gel and ultrasonic methods	Ceramics International 46, 2020, 7346-7354 <a href="https://doi.org/10.1016/j.ceramint.2019.11.230">https://doi.org/10.1016/j.ceramint.2019.11.230</a>
163	NA Algarou, Y Slimani, <b>M.A. Almessiere</b> , S Güner, A Baykal, I Ercan, P Kögerler	Exchange-coupling effect in hard/soft SrTb <sub>0.01</sub> Tm <sub>0.01</sub> Fe <sub>11.98</sub> O <sub>19</sub> /AFe <sub>2</sub> O <sub>4</sub> (where A= Co, Ni, Zn, Cu and Mn) composites	Ceramics International 46, 2020, 7089-7098 <a href="https://doi.org/10.1016/j.ceramint.2019.11.201">https://doi.org/10.1016/j.ceramint.2019.11.201</a>
164	NA Algarou, Y Slimani, <b>M.A. Almessiere</b> , A Baykal	Exchange-coupling behavior in SrTb <sub>0.01</sub> Tm <sub>0.01</sub> Fe <sub>11.98</sub> O <sub>19</sub> /(CoFe <sub>2</sub> O <sub>4</sub> ) <sub>x</sub> hard/soft nanocomposites	New Journal of Chemistry 44,2020, 5800-5808 <a href="https://doi.org/10.1039/D0NJ00109K">https://doi.org/10.1039/D0NJ00109K</a>
165	H Tombuloglu, FA Khan, <b>M.A. Almessiere</b> , S Aldakheel, A Baykal	Synthesis of niobium substituted cobalt-nickel nano-ferrite (Co <sub>0.5</sub> Ni <sub>0.5</sub> Nb <sub>x</sub> Fe <sub>2-x</sub> O <sub>4</sub> (x ≤ 0.1) by hydrothermal approach show strong anti-cancer activities	Journal Of Biomolecular Structure And Dynamics 39, 2020, 1-9 <a href="https://doi.org/10.1080/07391102.2020.1748719">https://doi.org/10.1080/07391102.2020.1748719</a>
166	NA Algarou, Y Slimani, <b>M.A. Almessiere</b> , A Baykal, S Guner, A Manikandan, I Ercan	Enhancement on the exchange coupling behavior of SrCo <sub>0.02</sub> Zr <sub>0.02</sub> Fe <sub>11.96</sub> O <sub>19</sub> /MFe <sub>2</sub> O <sub>4</sub> (M= Co, Ni, Cu, Mn and Zn) as hard/soft magnetic nanocomposites	Journal of Magnetism and Magnetic Materials 499, 2020, 166308 <a href="https://doi.org/10.1016/j.jmmm.2019.166308">https://doi.org/10.1016/j.jmmm.2019.166308</a>
167	S Rehman, <b>M.A. Almessiere</b> , FA Khan, A Demir Korkmaz, N Tashkandi, Y Slimani, A Baykal	Synthesis and biological characterization of Mn <sub>0.5</sub> Zn <sub>0.5</sub> Eu <sub>x</sub> Dy <sub>x</sub> Fe <sub>1.8-2x</sub> O <sub>4</sub> nanoparticles by sonochemical approach	Materials Science and Engineering: C 109, 2020, 110534 <a href="https://doi.org/10.1016/j.msec.2019.110534">https://doi.org/10.1016/j.msec.2019.110534</a>
168	<b>M.A. Almessiere</b> , Y Slimani, A Demir Korkmaz, A Baykal, H Albetran, Tawfik A Saleh, M Sertkol, I Ercan	A study on the spectral, microstructural, and magnetic properties of Eu–Nd double-substituted Ba <sub>0.5</sub> Sr <sub>0.5</sub> Fe <sub>12</sub> O <sub>19</sub> hexaferrites synthesized by an ultrasonic-assisted approach	Ultrasonics Sonochemistry 62, 2020, 104847 <a href="https://doi.org/10.1016/j.ultsonch.2019.104847">https://doi.org/10.1016/j.ultsonch.2019.104847</a>
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	Slimani, H Gungunes, Murat Sertkol, Muhammad Nawaz, NA Algarou, Abdulhadi Baykal, I Ercan	and cation distribution	2020, 402-410 <a href="https://doi.org/10.1016/j.jre.2019.06.007">https://doi.org/10.1016/j.jre.2019.06.007</a>
170	Y Slimani, B Unal, <b>M.A. Almessiere</b> , A Demir Korkmaz, Sagar E Shirsath, Ghulam Yasin, AV Trukhanov, A Baykal	Investigation of structural and physical properties of Eu <sup>3+</sup> ions substituted Ni <sub>0.4</sub> Cu <sub>0.2</sub> Zn <sub>0.4</sub> Fe <sub>2</sub> O <sub>4</sub> spinel ferrite nanoparticles prepared via sonochemical approach	Results in Physics 17, 2020, 103061 <a href="https://doi.org/10.1016/j.rinp.2020.103061">https://doi.org/10.1016/j.rinp.2020.103061</a>
171	M Al Shafouri, Naser M Ahmed, Z Hassan, <b>Munirah Abdullah Almessiere</b>	Chromaticity Properties of Curcuminoids Dye Nanofibers Prepared by Electrospinning for White Light Down-Conversion	Semiconductor Materials and Technology 301,2020, 77-84 <a href="https://doi.org/10.4028/www.scientific.net/SSP.301.77">https://doi.org/10.4028/www.scientific.net/SSP.301.77</a>
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173	<b>M.A. Almessiere</b> , E Hannachi, Y Slimani, Ghulam Yasin, M Mumtaz, MR Koblischka, A Koblischka-Veneva, A Manikandan, A Baykal	Dimensionality and superconducting parameters of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> d/(WO <sub>3</sub> NPs) x composites deduced from excess conductivity analysis	Materials Chemistry and Physics 243, 2020, 122665 <a href="https://doi.org/10.1016/j.materchemphys.2020.122665">https://doi.org/10.1016/j.materchemphys.2020.122665</a>
174	S Güner, <b>M.A. Almessiere</b> , Y Slimani, A Baykal, I Ercan	Microstructure, magnetic and optical properties of Nb <sup>3+</sup> and Y <sup>3+</sup> ions co-substituted Sr hexaferrites	Ceramics International 46, 2020, 4610-4618 <a href="https://doi.org/10.1016/j.ceramint.2019.10.191">https://doi.org/10.1016/j.ceramint.2019.10.191</a>
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180	Asmaa Soheil Najm, Norasikin A Ludin, Mahir Faris Abdullah, <b>Munirah A Almessiere</b> , Naser M	Areca catechu extracted natural new sensitizer for dye-sensitized solar cell: performance evaluation	Journal of Materials Science: Materials in Electronics 31 ,2020, 3564-3575 <a href="https://doi.org/10.1007/s10">https://doi.org/10.1007/s10</a>



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185	<b>Munirah A Almessiere</b> , Yassine Slimani, Ismail A Auwal, Sagar E Shirsath, Ayyar Manikandan, Abdulhadi Baykal, Bekir Özçelik, Ismail Ercan, Sergei V Trukhanov, Denis A Vinnik, Alex V Trukhanov	Impact of Tm <sup>3+</sup> and Tb <sup>3+</sup> Rare Earth Cations Substitution on the Structure and Magnetic Parameters of Co–Ni Nanospinel Ferrite	Nanomaterials 10,2020, 2384 <a href="https://doi.org/10.3390/nano10122384">https://doi.org/10.3390/nano10122384</a>
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208	P Annie Vinosha, A Manikandan, A Christy Preetha, A Dinesh, Y Slimani, <b>M.A. Almessiere</b> , A Baykal, Belina Xavier, G Francisco Nirmala	Review on Recent Advances of Synthesis, Magnetic Properties, and Water Treatment Applications of Cobalt Ferrite Nanoparticles and Nanocomposites	Journal of Superconductivity and Novel Magnetism 34,2021, 995–1018 <a href="https://doi.org/10.1007/s109">https://doi.org/10.1007/s109</a>

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210	Omar Alagha, Noureddine Ouerfelli, Hafedh Kochkar, <b>Munirah A Almessiere</b> , Yassine Slimani, Ayyar Manikandan, Abdulhadi Baykal, Ahmed Mostafa, Mukarram Zubair, Mohammad H Barghouthi	Knetic Modeling for Photo-Assisted Penicillin G Degradation of (Mn <sub>0.5</sub> Zn <sub>0.5</sub> ) <sub>x</sub> [Cd <sub>x</sub> Fe <sub>2-x</sub> ]O <sub>4</sub> (x ≤ 0.05) Nanospinel Ferrites	Nanomaterials 11,2021, 970 <a href="https://doi.org/10.3390/nano11040970">https://doi.org/10.3390/nano11040970</a>
211	<b>M.A. Almessiere</b> , Y Slimani, AV Trukhanov, A Sadaqat, A Demir Korkmaz, NA Algarou, H Aydın, A Baykal, Muhammet S Toprak	Review on functional bi-component nanocomposites based on hard/soft ferrites: Structural, magnetic, electrical and microwave absorption properties	Nano-Structures & Nano-Objects 26,2021, 100728 <a href="https://doi.org/10.1016/j.nano.2021.100728">https://doi.org/10.1016/j.nano.2021.100728</a>
212	I Rehan, MA Gondal, S Sultana, MA Dastageer, RK Aldakheel, <b>M.A. Almessiere</b> , R Muhammad, K Rehan, D Domyati	Elemental Compositions of Earthquake-Stricken Soil from the Vicinity of the Epicenter at Eurasian and Indian Tectonic Plates Using Calibration Free Laser Induced Breakdown	Arabian Journal for Science and Engineering 46,2021, 6101–6108 <a href="https://doi.org/10.1007/s13369-021-05503-z">https://doi.org/10.1007/s13369-021-05503-z</a>
213	Naser M Ahmed, Fayroz A Sabah, Naif H Al-Hardan, <b>Munirah A Almessiere</b> , Sabah M Mohammad, Way Foong Lim, Maadh Jumaah, AKM Shafiqul Islam, Z Hassan, Hock Jin Quah, Naveed Afzal	Development of EGFET-based ITO pH sensors using epoxy free membrane	Semiconductor Science and Technology 36,2021, 045027 DOI: 10.1088/1361-6641/abe914
214	YS Wudil, MA Gondal, <b>M.A. Almessiere</b> , AQ Alsayoud	The multi-dimensional approach to synergistically improve the performance of inorganic thermoelectric materials: a critical review	Arabian Journal of Chemistry 14, 2021, 103103 <a href="https://doi.org/10.1016/j.arabjc.2021.103103">https://doi.org/10.1016/j.arabjc.2021.103103</a>
215	Ahmed Fattah Abdulrahman, Sabah Mohammed Ahmed, Azeez Abdullah Barzinjy, Samir Mustafa Hamad, Naser Mahmoud Ahmed, <b>Munirah Abudllah Almessiere</b>	Fabrication and Characterization of High-Quality UV Photodetectors Based ZnO Nanorods Using Traditional and Modified Chemical Bath Deposition Methods	Nanomaterials 11,2021, 677 <a href="https://doi.org/10.3390/nano11030677">https://doi.org/10.3390/nano11030677</a>
216	Suhailah S Aljameel, <b>Munirah A Almessiere</b> ,	Synthesis, Characterization, Anti-Cancer Analysis of Sr <sub>0.5</sub> Ba <sub>0.5</sub> Dy <sub>x</sub> Sm <sub>x</sub> Fe <sub>8-2x</sub> O <sub>19</sub>	Nanomaterials 11,2021,700 <a href="https://doi.org/10.3390/nano11030677">https://doi.org/10.3390/nano11030677</a>

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217	M Vanitha, G Ramachandran, A Manikandan, Y Slimani, <b>M.A. Almessiere</b> , A Baykal, Chandra Sekhar Dash	Effect of Sr <sup>2+</sup> Ion-Substituted Nickel Ferrite Nanoparticles Prepared by a Simple Microwave Combustion Method	Journal of Superconductivity and Novel Magnetism 34,2021, 971-980 <a href="https://doi.org/10.1007/s10948-020-05777-8">https://doi.org/10.1007/s10948-020-05777-8</a>
218	S Blessi, S Anand, A Manikandan, M Maria Lumina Sonia, V Maria Vinosel, Y Slimani, <b>M.A. Almessiere</b> , A Baykal	Structural, optical, and electrochemical investigations of sb-substituted mesoporous SnO <sub>2</sub> nanoparticles	Journal of Materials Science: Materials in Electronics 32,2021, 4132-4145 <a href="https://doi.org/10.1007/s10854-020-05155-z">https://doi.org/10.1007/s10854-020-05155-z</a>
219	RK Aldakheel, MA Gondal, MM Nasr, MA Dastageer, <b>M.A. Almessiere</b>	Quantitative elemental analysis of nutritional, hazardous and pharmacologically active elements in medicinal Rhatany root using laser induced breakdown spectroscopy	Arabian Journal of Chemistry 14,2021, 102919 <a href="https://doi.org/10.1016/j.arabjc.2020.102919">https://doi.org/10.1016/j.arabjc.2020.102919</a>
220	Huseyin Tombuloglu, Yassine Slimani, Thamer Marhoon AlShammari, Guzin Tombuloglu, <b>Munirah A Almessiere</b> , Huseyin Sozeri, Abdulhadi Baykal, Ismail Ercan	Delivery, fate and physiological effect of engineered cobalt ferrite nanoparticles in barley ( <i>Hordeum vulgare</i> L.)	Chemosphere 256,2021, 129138 DOI: 10.1016/j.chemosphere.2020.129138
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222	Amal Mohamed Ahmed Ali, Naser M Ahmed, Norlaili A Kabir, <b>Munirah A Almessiere</b>	Multilayer ZnO/Pb/G thin film based extended gate field effect transistor for low dose gamma irradiation detection	Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment 987,2021, 164833 <a href="https://doi.org/10.1016/j.nima.2020.164833">https://doi.org/10.1016/j.nima.2020.164833</a>
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224	<b>M. A. Almessiere</b> , B. Unal, I. A. Auwal, Y. Slimani, H. Aydin, A. Manikandan, and A. Baykal	Impact of calcination temperature on electrical and dielectric properties of SrGa <sub>0.02</sub> Fe <sub>11.98</sub> O <sub>19</sub> Zn <sub>0.5</sub> Ni <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> hard/soft nanocomposites	Journal of Materials Science: Materials in Electronics 32, 2021,16589–16600 <a href="https://doi.org/10.1007/s10854-021-06214-9">https://doi.org/10.1007/s10854-021-06214-9</a>
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232	B. Ünal, <b>M.A. Almessiere</b> , Y. Slimani, A. Demir Korkmaz, A. Baykal	A study on the electrical and dielectric properties of SrGdxFe <sub>12-x</sub> O <sub>19</sub> (x = 0.00–0.05) nanosized M-type hexagonal ferrites	Journal of Materials Science: Materials in Electronics 32, 2012,18317–18329 DOI : 10.1007/s10854-021-06373-9
233	Y Slimani, <b>M.A. Almessiere</b> , A Demir Korkmaz, A Baykal, I Ercan	AC susceptibility and FC-ZFC magnetic properties of SrTbxFe <sub>12-x</sub> O <sub>19</sub> and SrTmxFe <sub>12-x</sub> O <sub>19</sub> hexaferrites: Comparative study	Journal of Rare Earths 39,2021, 1003-1009 <a href="https://doi.org/10.1016/j.jre.2020.07.026">https://doi.org/10.1016/j.jre.2020.07.026</a>



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235	I.Rehan, M.A.Gondal, R.K.Aldakheel, K.Rehan, S.Sultana, <b>M.A.Almessiere</b> , Z.Ali	Development of Laser Induced Breakdown Spectroscopy Technique to study Irrigation Water Quality Impact on Nutrients and Toxic Elements Distribution in Cultivated Soil	Saudi Journal of Biological Sciences  <a href="https://doi.org/10.1016/j.sjbs.2021.07.064">https://doi.org/10.1016/j.sjbs.2021.07.064</a>
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250	I. Rehan, M. A. Gondal, R.K. Aldakheel, <b>M. A. Almessiere</b> ,K. Rehan, S. Khan, S. Sultana, M. Z. Khan	Determination of Nutritional and Toxic Metals in Black Tea Leaves Using Calibration Free LIBS and ICP –AES Technique	Arabian Journal for Science and Engineering <a href="https://doi.org/10.1007/s13369-021-06233-y">https://doi.org/10.1007/s13369-021-06233-y</a>
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253	<b>M.A. Almessiere</b> , B. Ünal , A. Baykal , I. Auwal , Y. Slimani , A. Manikandan , A.V. Trukhanov	Investigation on electrical and dielectric properties of hard/soft spinel ferrite nanocomposites of CoFe <sub>2</sub> O <sub>4</sub> /(NiSc <sub>0.03</sub> Fe <sub>1.97</sub> O <sub>4</sub> ) <sub>x</sub>	Vacuum 194, 2021, 110628 <a href="https://doi.org/10.1016/j.vacuum.2021.110628">https://doi.org/10.1016/j.vacuum.2021.110628</a>
254	F. Alahmari,Y. Slimani, <b>M. Almessiere</b> , M. Sertkol, A. Manikandan, A. Baykal	Electrospinning synthesis of Cd-substituted Ni–Co spinel ferrite nanofibers: an investigation into their structural and magnetic features	Applied Physics A 127 ,2021,785 <a href="https://doi.org/10.1007/s00339-021-04936-5">https://doi.org/10.1007/s00339-021-04936-5</a>
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338	Huseyin Tombuloglu, Moneerah Alsaeed, Yassine Slimani , Ayse Demir-Korkmaz, Guzin Tombuloglu , Huseyin Sozeri , <b>Munirah A. Almessiere</b> , Abdulhadi Baykal , Tarek S. Kayed , Ismail Ercan	Formulation of 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	Journal of Soil Science and Plant Nutrition  <a href="https://doi.org/10.1007/s42729-023-01271-x">https://doi.org/10.1007/s42729-023-01271-x</a>
339	S. Caliskan , <b>M.A. Almessiere</b> , A. Baykal , Y. Slimani	A first principles study on electronic structure, magnetic and optical characteristics of Se doped CoNiFe <sub>2</sub> O <sub>4</sub> spinel ferrites	Computational Materials Science 226, 2023, 112243  <a href="https://doi.org/10.1016/j.commatsci.2023.112243">https://doi.org/10.1016/j.commatsci.2023.112243</a>
340	Rahma A. Algarni, Ghadeer M. Alharbi, Tahani M. Alqahtani, Yassine Slimani, Essia Hannachi , <b>Munirah A. Almessiere</b> , Faten Ben Azzouz	Effects of Dy <sub>2</sub> O <sub>3</sub> nanoparticles on intergranular coupling and excess conductivity of low porous YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> superconductor ceramic	Applied Physics A 2023, 129:434  <a href="https://doi.org/10.1007/s00339-023-06709-8">https://doi.org/10.1007/s00339-023-06709-8</a>
341	S. Caliskan , <b>M.A. Almessiere</b> , A. Baykal , H. Gungunes , Y. Slimani , M. Hassan , D.S. Klygach , V.G. Kostishin , S.V. Trukhanov , A.V. Trukhanov , M.A. Gondal	Impact of vanadium substitution on structural, magnetic, microwave absorption features and hyperfine interactions of SrCo hexaferrites	Journal of Alloys and Compounds 960, 2023, 170578  <a href="https://doi.org/10.1016/j.jallcom.2023.170578">https://doi.org/10.1016/j.jallcom.2023.170578</a>
342	Ahmed Fattah Abdulrahman , N.M. Abd-Alghafour , <b>Munirah A. Almessiere</b>	A high responsivity, fast response time of ZnO nanorods UV photodetector with annealing time process	Optical Materials 141, July 2023, 113869  <a href="https://doi.org/10.1016/j.optmat.2023.113869">https://doi.org/10.1016/j.optmat.2023.113869</a>
343	Adnan H. Alrajhi , Naser M. Ahmed , Mohd Mahadi Halim , Abeer S. Altowyan , Mohamad Nurul Azmi and <b>Munirah A. Almessiere</b>	Distinct Optical and Structural (Nanoyarn and Nanomat-Like Structure) Characteristics of Zinc Oxide Nanofilm Derived by Using Salvia Officinalis Leaves Extract Made Without and With PEO Polymer	Materials 16,2023,4510  <a href="https://doi.org/10.3390/ma16134510">https://doi.org/10.3390/ma16134510</a>
344	E. Hannachi , M.I. Sayyed , Y. Slimani , <b>M.A. Almessiere</b> , A. Baykal , M. Elsafi	Experimental study on the radiation protecting ability of composites containing barium titanate and nanospinel ferrite	Radiation Physics and Chemistry 212, 2023, 111126  <a href="https://doi.org/10.1016/j.radphyschem.2023.111126">https://doi.org/10.1016/j.radphyschem.2023.111126</a>
345	B. Ünal, <b>M. A. Almessiere</b> , Y. Slimani, R. Jermy , A. Baykal	The role of Mo <sup>6+</sup> ion substitution on the electrical and dielectric features of SrNi-	Journal of Materials Science: Materials in Electronics 34,

		hexaferrites	2023, 1386 <a href="https://doi.org/10.1007/s10854-023-10744-9">https://doi.org/10.1007/s10854-023-10744-9</a>
346	Y. Slimani , <b>M.A. Almessiere</b> , A. Baykal , R. Jermy , I.A. Auwal , S.E. Shirsath	Ce substituted NiCo microspheres and nanoflakes: Comparison on magnetic features	Nano-Structures & Nano-Objects 35, 2023, 101000 <a href="https://doi.org/10.1016/j.nanos.2023.101000">https://doi.org/10.1016/j.nanos.2023.101000</a>
347	Muidh Alheshibri, Khaled A. Elsayed, Firdos Alam Khan, Shamsuddeen A. Haladu, Filiz Ercan, Emre Çevik, Q. A. Drmosh, T. S. Kayed & <b>M. A. Almessiere</b>	Tuning the Morphology of Au/ZnO Nanocomposite Using Pulsed Laser Ablation for Anticancer Applications	Arabian Journal for Science and Engineering (2023) <a href="https://doi.org/10.1007/s13369-023-08061-8">https://doi.org/10.1007/s13369-023-08061-8</a>
348	Rahmah A. Algarni, Yassine Slimani , Essia Hannachi , <b>Munirah A. Almessiere</b> , Tahani M. Alqahtani, and Faten Ben Azzouz	Efficiency of dysprosium oxide nanoparticles on the intergranular coupling and intragranular properties of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-2δ</sub> ceramics	J Mater Sci: Mater Electron 34, 2023, 1529 <a href="https://doi.org/10.1007/s10854-023-10921-w">https://doi.org/10.1007/s10854-023-10921-w</a>
349	Abbad Al Baroot , Khaled A. Elsayed , Firdos Alam Khan , Shamsuddeen A. Haladu , Filiz Ercan ,Emre Çevik 5 , Q. A. Drmosh , <b>M. A. Almessiere</b>	Anticancer Activity of Au/CNT Nanocomposite Fabricated by Nanosecond Pulsed Laser Ablation Method on Colon and Cervical Cancer	Micromachines 14,2023,1455. <a href="https://doi.org/10.3390/mi14071455">https://doi.org/10.3390/mi14071455</a>
350	S.Caliskan, <b>M.A.Almessiere</b> , A.Baykal, Y.Slimani, H.Gungunes, A.Demir Korkmaz, A.Ul-Hamid, I.A. Auwal	Magnetic properties of Sr <sub>0.5</sub> Ba <sub>0.5</sub> HoxFe <sub>12-x</sub> O <sub>19</sub> (x ≤ 0.10) nano-hexaferrites	Applied Physics A 129 ,2023,616 <a href="https://doi.org/10.1007/s00339-023-06881-x">https://doi.org/10.1007/s00339-023-06881-x</a>
351	Ahmed Fattah Abdulrahman , Amad Nori Abdulqodus , <b>Munirah Abdullah Almessiere</b>	Biosynthesis of Al-doped ZnO nanoparticles with different Al doping ratio for methylene orange dye degradation activity	Ceramics International <a href="https://doi.org/10.1016/j.ceramint.2023.08.165">https://doi.org/10.1016/j.ceramint.2023.08.165</a>
352	Sabiha Sultana, Mohammed A. Gondal , Amir Naveed, Imran Rehan, Kamran Rehan, Noor Ul Amin, Luqman Ali Shah, Shah Khalid, Bassam El Ali, <b>M. A. Almessiere</b>	Copper Nanoparticles Doped on Polyvinyl Alcohol/Polymethyl Methacrylate/Montmorillonite (PVA-PMMA/MMT) as Ecofriendly Polymeric Hybrid Clay Composites: Study of their Bactericidal and Physical Properties	Arabian Journal for Science and Engineering <a href="https://doi.org/10.1007/s13369-023-08164-2">https://doi.org/10.1007/s13369-023-08164-2</a>

353	Mohamed Jaffer Sadiq Mohamed, Mohammed Ashraf Gondal, Muhammad Hassan, <b>Munirah Abdullah Almessiere</b> , Asif Ali Tahir, and Anurag Roy	Effective Hydrogen Production from Alkaline and Natural Sea water using $WO_3-x@CdS_{1-x}$ Nanocomposite-Based Electrocatalysts	ACS Omega  <a href="https://doi.org/10.1021/acso-mega.3c02516">https://doi.org/10.1021/acso-mega.3c02516</a>
354	<b>M.A. Almessiere</b> , Y. Slimani , A. Baykal , H. Gungunes , S. Caliskan , M.G. Vakhitov , D.S. Klygach , T.I. Zubar , S.V. Trukhanov , A.V. Trukhanov , A. Ul-Hamid	Impact of $Sc^{3+}/In^{3+}$ ions co-substitution on structural, magnetic, and microwave features of $SrFe_{12}O_{19}$ hexaferrites	Journal of Alloys and Compounds 968, 2023, 172197  <a href="https://doi.org/10.1016/j.jall-com.2023.172197">https://doi.org/10.1016/j.jall-com.2023.172197</a>
355	Yassine Slimani, Sher Singh Meena, Sagar E. Shirsath, Essia Hannachi, <b>Munirah A. Almessiere</b> , Abdulhadi Baykal, Rengasamy Sivakumar, Khalid M. Bato,oo, Atul Thakur, Ismail Ercan, Bekir Özçelik	Impact of magnetic spinel ferrite content on the structure, morphology, optical, and magneto-dielectric properties of $BaTiO_3$ materials	Zeitschrift für Physikalische Chemie 2023,2023-0215  <a href="https://doi.org/10.1515/zpch-2023-0215">https://doi.org/10.1515/zpch-2023-0215</a>
356	E. Hannachi, M. I. Sayyed, Y. Slimani, <b>M. A. Almessiere</b> , A. Baykal, M. Elsafi	Radiation attenuation attributes of Pb-free titanate-based perovskite modified with M-type hexagonal ferrite addition	Applied Physics A 129 ,2023, 711.  <a href="https://doi.org/10.1007/s00339-023-06984-5">https://doi.org/10.1007/s00339-023-06984-5</a>
357	S. Ahmed , M.A. Gondal, A.S. Alzahrani , <b>M.A. Almessiere</b>	Critical review on transition metal selenides/graphene composite as futuristic electrode material for high performance supercapacitors	Journal of Energy Storage 74, 2023, 109214  <a href="https://doi.org/10.1016/j.est.2023.109214">https://doi.org/10.1016/j.est.2023.109214</a>
358	Suriya Rehman , Balasamy Rabindran Jermy , Irfan A. Rather , Jamal S. M. Sabir , Suhailah S. Aljameel , Munirah A. Almessiere , Yassine Slimani , Firdos A. Khan , Abdulhadi Baykal	$Pr^{3+}$ Ion-Substituted Ni-Co Nano-Spinel Ferrites: Their Synthesis, Characterization, and Biocompatibility for Colorectal Cancer and Candidaemia	Pharmaceuticals 16,2023, 1494. <a href="https://doi.org/10.3390/ph16101494">https://doi.org/10.3390/ph16101494</a>
359	Y. Slimani, M. A. Almessiere , A. Baykal , A. Demir Korkmaz , I. A. Auwal	Impression of partial replacement of $Fe^{3+}$ by $Sn^{4+}$ ion on structural and magnetic features of $NiCuZn$ nanospinel ferrites	Applied Nanoscience (2023) <a href="https://doi.org/10.1007/s13204-023-02974-4">https://doi.org/10.1007/s13204-023-02974-4</a>



## Scientific Achievements - Patents

#	Name of Inventor(s) / Research Title / Publisher	Reference or Application No. / Date
1	<b>Inventor(s):</b> Yassine SLIMANI, <b>Munirah Abdullah ALMESSIERE</b> , Faten Ben Azzouz <b>Title:</b> YTTRIUM-BASED SUPERCONDUCTORS WITH TUNGSTEN NANO-STRUCTURES	Application No.: 16/161,430 Publication No.: US 2020/0119252 A1 Publication Date: 04/16/2020
2	<b>Inventor(s):</b> Muhammad Ashraf GONDAL , <b>Munirah A. ALMESSIERE</b> , Bilal A. GONDAL <b>Title:</b> Method For Detecting And Treating Colon Cancer By Measuring Heavy Metal Concentrations	Application No.: 16 / 662,834 Publication No.: US 11,415,582 B2 Publication Date: August 16 , 2022
3	<b>Inventors :</b> Ayhan BOZKURT , Seyda Tugba Gunday ANIL , <b>Munirah Abdullah ALMESSIERE</b> ,Sultan AKHTAR <b>Title:</b> Multi - Stage Calcination Method For Making Hollow Silica Spheres	Application No.: 15 / 995,904 Publication No.: US 2019/0367376 A1 Publication Date: Dec. 5 , 2019
4	<b>Inventors :</b> Muhammad A. Gondal, R. K. Aldakheel , <b>M.A.almessiere</b> , Firdos A. Khan , S. Rehman, A. Baykal <b>Title:</b> Quantification of the micronutrients profile in Moringa Oleifera tree Leaves Using calibration free laser induce breakdown spectroscopy	Application No.: 17/535,081 Publication No.: US 2022/0163453 A1 Publication Date: May 26 , 2022
5	<b>Inventor(s):</b> Yassine SLIMANI, <b>Munirah Abdullah ALMESSIERE</b> , Faten Ben Azzouz <b>Title:</b> YTTRIUM-BASED SUPERCONDUCTORS WITH TUNGSTEN NANO-STRUCTURES	Application No.: 17 / 320,660 Publication No.: US 2021/0273151 A1 Publication Date: Sep. 2 , 2021
6	<b>Inventor(s):</b> Tahani Mohammed AlFareed, <b>Munirah Abdullah Almessiere</b> , Yassine Abdelhamid Slimani, Firdos Alam Khan, Ebtessam Abdullah Al-Suhaimi, Abdulhadi baykal <b>Title:</b> MAGNETOELECTRIC NANOCOMPOSITES AND METHOD OF PREPARATION THEREOF	Application No.: 17 / 701,110 Publication No.: US 2023/0320997 A1 Publication Date: Oct. 12 , 2023
7	<b>Inventor(s):</b> Emre Cevik , <b>Munirah Abdullah Almessiere</b> , A. Baykal, Ayhan Bozkurt <b>Title:</b> VANADIUM DOPED SPINEL FERRITE NANOCOMPOSITE ELECTRODES	Application No.: 17 / 719,437 Publication No.: US 2023/0335347 A1 Publication Date: Oct. 19 , 2023
8	<b>Inventor(s):</b> Yassine SLIMANI, <b>Munirah Abdullah ALMESSIERE</b> ,A. Baykal <b>Title:</b> Magnetolectric multiferroic nano composite	Application No.: 17 / 314,087 Publication No.: US 2022/0359110 A1 Publication Date: Nov.10 , 2022
9	<b>Inventor(s):</b> Essia hannachi ,Yassine SLIMANI, Muhammad Nwaz , <b>Munirah Abdullah ALMESSIERE</b> ,A. Baykal <b>Title:</b> A Photocatalyst for the Degradation of Methyl Orange Dye	Application No.: 18 / 185,107 Publication No.: 546199US Filling date :03/16/2023
10	<b>Inventor(s):</b> Yassine SLIMANI, <b>Munirah Abdullah ALMESSIERE</b> ,A. Baykal <b>Title:</b> Method For Forming A Magnetolectric Nanocomposite	Application No.: 18 / 351,519 Publication No.: 548991US Filling date :13/7/2023
11	<b>Inventor(s):</b> Yassine SLIMANI, <b>Munirah Abdullah ALMESSIERE</b> , Faten Ben Azzouz <b>Title:</b> Method for making y123 superconducting material.	Application No.: 17 / 320,660 Publication No.: 11,770,983B2 Filling date :Sep. 26 ,2023
12	<b>Inventor(s):</b> Yassine SLIMANI, <b>Munirah Abdullah ALMESSIERE</b> , Essia hannachi ,A. Baykal <b>Title:</b> Composite Ceramic With Low Dielectric Losses	Application No.: 18 / 475,843 Publication No.: 547361US Filling date :27/9/2023
13	<b>Inventor(s):</b> Guzin Tombuloglu ,Hyseyin Tombuloglu , Yassine SLIMANI, <b>Munirah Abdullah ALMESSIERE</b> , A. Baykal <b>Title:</b> Magnetic 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 In Plants	Application No.: 18 / 480,993 Publication No.: 548556US Filling date :4/10/2023

Scientific Research Books

#	Name of Inventor(s) / Research Title / Publisher
1	<ul style="list-style-type: none"> <li>• Author(s): Y. Slimani, E. Hannachi, H. Tombuloglu, S. Güner, <b>M.A. Almessiere</b>, A. Baykal, M.A. Aljafary, E.A. AL-Suhaimi, M. Nawaz, I. Ercan</li> <li>• Chapter 14: “Magnetic nanoparticles based nanocontainers for biomedical application”</li> <li>• Chapter Link: <a href="https://doi.org/10.1016/B978-0-12-816770-0.00014-9">https://doi.org/10.1016/B978-0-12-816770-0.00014-9</a></li> <li>• Publication: Elsevier (2020) Pages 229-250</li> <li>• In Book entitled: “Smart Nanocontainers”.</li> <li>• Book Link: <a href="https://doi.org/10.1016/C2017-0-04794-8">https://doi.org/10.1016/C2017-0-04794-8</a></li> <li>• Published Date: 15th November 2019</li> <li>• ISBN: 9780128167700</li> </ul>
2	<ul style="list-style-type: none"> <li>• Author(s): <b>Munirah Abdullah Almessiere</b>, Kashif Chaudhary, Jalil Ali, Muhammad Sufi Roslan</li> <li>• Chapter 3: Graphene-Based Composite Materials</li> <li>• Chapter Link: <a href="https://doi.org/10.1002/9781119468455.ch55">https://doi.org/10.1002/9781119468455.ch55</a></li> <li>• Publication: Wiley (2019) pages 91-114</li> <li>• In Book entitled: “Handbook of Graphene Set: Growth, Synthesis and Functionalization”.</li> <li>• Book Link: <a href="https://doi.org/10.1002/9781119468455">https://doi.org/10.1002/9781119468455</a></li> <li>• Published Date: 17 June 2019</li> <li>• ISBN: 9781119459903</li> </ul>
3	<p>Author(s): Zayneb Trabelsi, Essia Hannachi, Sarah A. Alotaibi, Yassine Slimani, <b>Munirah A. Almessiere</b> &amp; Abdulhadi Baykal</p> <ul style="list-style-type: none"> <li>• Chapter Superconductivity Phenomenon: Fundamentals and Theories</li> <li>• Chapter Link: <a href="https://doi.org/10.1007/978-981-19-1211-5_1">https://doi.org/10.1007/978-981-19-1211-5_1</a></li> <li>• Publication: Springer (2022)</li> <li>• In Book entitled: “Superconducting Materials.”.</li> <li>• Book Link: <a href="https://doi.org/10.1007/978-981-19-1211-5_1">https://doi.org/10.1007/978-981-19-1211-5_1</a></li> <li>• Published Date: 04 May 2022</li> <li>• ISBN: 978-981-19-1210-8</li> </ul>
4	<ul style="list-style-type: none"> <li>• Author(s): <b>M.A. Almessiere</b>, Y. Slimani, A. Thurkanov, A. Baykal</li> <li>• Chapter 7: Structural and Morphological characterization of Nanomaterials</li> <li>• Publication: Springer (2022)</li> <li>• In Book entitled: “Synthesis and Applications of Nanoparticle”.</li> <li>• Book Link: <a href="https://doi.org/10.1007/978-981-16-6819-7">https://doi.org/10.1007/978-981-16-6819-7</a></li> <li>• ISBN: 978-981-16-6818-0</li> </ul>
5	<ul style="list-style-type: none"> <li>• Author(s): Yassine Slimani, Sadik Guner, <b>Munirah A. Almessiere</b>, Essia Hannachi, Ayyar Manikandan, Abdulhadi Baykal</li> <li>• Chapter 9: Magnetic characterization of Nanomaterials</li> <li>• Publication: Springer (2022)</li> <li>• In Book entitled: “Synthesis and Applications of Nanoparticle”.</li> <li>• Book Link: <a href="https://doi.org/10.1007/978-981-16-6819-7">https://doi.org/10.1007/978-981-16-6819-7</a></li> <li>• ISBN: 978-981-16-6818-0</li> </ul>
6	<ul style="list-style-type: none"> <li>• Author(s): R. K. Aldakheel, M. A. Gondal, <b>M.A. Almessiere</b></li> <li>• Chapter 39: Elemental Analysis of Cultivated Soil using Laser-Induced Breakdown Spectroscopy</li> <li>• Publication: John Wiley &amp; Sons, Ltd (2023)</li> <li>• In Book entitled: “Laser Induced Breakdown Spectroscopy (LIBS): Concepts, Instrumentation, Data Analysis and Applications”.</li> </ul>

	<ul style="list-style-type: none"> <li>• Book Link: <a href="https://doi.org/10.1002/9781119758396.ch39">https://doi.org/10.1002/9781119758396.ch39</a></li> <li>• ISBN: 978-111-97-5840-2</li> </ul>
7	<ul style="list-style-type: none"> <li>• Author(s): R. K. Aldakheel, M. A. Gondal, <b>M.A. Almessiere</b></li> <li>• Chapter 41: Capabilities and Limitations of Laser-Induced Breakdown Spectroscopy for Analyzing Food Products</li> <li>• Publication: John Wiley &amp; Sons, Ltd (2023)</li> <li>• In Book entitled: "Laser Induced Breakdown Spectroscopy (LIBS): Concepts, Instrumentation, Data Analysis and Applications".</li> <li>• Book Link: <a href="https://doi.org/10.1002/9781119758396.ch41">https://doi.org/10.1002/9781119758396.ch41</a></li> <li>• ISBN: 978-111-97-5840-2</li> </ul>
8	<ul style="list-style-type: none"> <li>• Author(s): K. Elaya Kumar , A. Manikandan , A. Dinesh , K. Thanrasu , K. Kanmani Raja , S. Muthulingam, R. Thilak Kumar, <b>M. Almessiere</b> , Y. Slimani , Anish Khan, A. Baykal , S. K. Jaganathan , Abdullah M Asiri</li> <li>• Chapter : BIOMEDICAL APPLICATIONS OF RARE EARTH ELEMENT DOPED MAGNETIC FERRITE NANOCOMPOSITES</li> <li>• Publication: Elsevier (2024)</li> <li>• In Book entitled: "Magnetic Nanoparticles And Polymer Nanocomposites ".</li> <li>• Book Link: <a href="https://shop.elsevier.com/books/magnetic-nanoparticles-and-polymer-nanocomposites/khan/978-0-323-85748-2">https://shop.elsevier.com/books/magnetic-nanoparticles-and-polymer-nanocomposites/khan/978-0-323-85748-2</a></li> <li>• ISBN: 978-032-38-5784-2</li> </ul>
9	<ul style="list-style-type: none"> <li>• Author(s): D. Rani Rosaline , V. Daphne , G. Srividya , P. Nivetha , A. Manikandan , S.S.R. Inbanathan , K.Thanrasu , A.Dinesh , K. Kanmani Raja , <b>M.A. Almessiere</b>, Y. Slimani , A. Baykal , Anish Khan , Abdullah M. Asiri</li> <li>• Chapter : Magnetic Nanocomposites For Biomedical And Environmental Applications</li> <li>• Publication: Elsevier Submitted</li> </ul>
10	<ul style="list-style-type: none"> <li>• Author(s): D. Rani Rosaline , S. Hamsa Rubini , C. Keerthana , S. Stephila Vasthi , A. Manikandan , S.S.R. Inbanathan , A. Dinesh , K. Thanrasu , K. Kanmani Raja , <b>M.A. Almessiere</b> , Y. Slimani , A. Baykal , Anish Khan , Abdullah M. Asiri</li> <li>• Chapter : Magnetic nanoparticles and nanocomposites for the applications of photocatalytic degradation of organic dyes</li> <li>• Publication: Elsevier Submitted</li> </ul>

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
1	M Al Shafouri, Naser M Ahmed, Z Hassan and <b>Munirah Abdullah Almessiere</b>	The Effect of The Wavelength of the LED used to Pump Phosphor Produced from Curcuminoids Dye Extracted from Turmeric ( <i>Curcuma Longa L.</i> ) to Produce White Light	IOP Conf. Series: Materials Science and Engineering 454 (2018) 012048 Malaysia
2	<b>M.A. Almessiere</b> , J. Leblanc-Lavoie , M. Gaidi , M.A. El Khakani	Silver Nanoparticles/Si Nanowires Enabled Efficient Photovoltaic Devices: Role of Silicon Nanowires Length Optimization	12th International Conference on Sustainable Energy & Environmental Protection SEEP 2019 University of Sharjah
3	S. Güner , Norah A. Algarou, Y. Slimani , <b>M. A. Almessiere</b> , A. V. Trukhanov, A. Baykal	Functional Sr <sub>0.5</sub> Ba <sub>0.5</sub> Sm <sub>0.02</sub> Fe <sub>11.98</sub> O <sub>4</sub> /x(Ni <sub>0.8</sub> Zn <sub>0.2</sub> Fe <sub>2</sub> O <sub>4</sub> ) Hard-Soft Ferrite Nanocomposite Material—Structural, Magnetic and Microwave Analyses	2021 VIRTUAL MRS SPRING MEETING April 17 - 23, 2021 Aachen university Germany
4	<b>Munirah A. Almessiere</b>	Bactericidal and in vitro cytotoxicity of moringa oleifera seed extract and its elemental analysis using Laser-Induced Breakdown Spectroscopy	3 <sup>rd</sup> International Conference on Pharmaceutical Science and Vaccine Drug Delivery Systems held during February 05, 2021 in Webina England

## Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
1	Amal Al-Otaibi and <b>Munirah Abdullah Almessiere</b>	Preparation and Study of Nanostructural and Optical properties of Zinc Oxide	2013-2014
2	Taher Ghrib, Amal Al- Otaibi and <b>Munirah Abdullah Almessiere</b>	Preparation of New Nanoparticles Based on ZnO and ZnO/ZnS (Core/Shell) Using the Electrochemical Deposition Technique and Its Characterization with the Photothermal Deflexion Technique	2014-2015
3	F. Ben Azzouz ,Amal Al- Otaibi and <b>Munirah Abdullah Almessiere</b>	Nano-particles addition effect on microstructure, electrical and magnetic transport properties in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-d</sub> thick film on Ag substrate	2014-2015
4	Amal Al-Otaibi , <b>Munirah Abdullah Almessiere</b> Taher Ghrib	Improve Perovskite Based-Solar Cells Performance	2015-2016
5	Nada elzen , faten Azzouz ,Amal Al-Otaibi , <b>Munirah Abdullah Almessiere</b>	Synthesis and characterization of hybrid nano structure metal oxide based thin films	2016-2017
6	Iman Salah massoudi,Taher Ghrib ,Amal Al-Otaibi , <b>Munirah Abdullah Almessiere</b>	Manufacture and characterization of porous and nanoscale capacitors to produce and store electric energy	2016-2017
7	Taher Ghrib , Amal Al- Otaibi , <b>Munirah Abdullah Almessiere</b>	Advances in the Surface Passivation of silicon for efficiency improvement of silicon solar cells	2016-2017
8	<b>Munirah almessiere</b> ,Amira	KAUST Supercomputing Laboratory (KSL): Computer aided drug design for	2017-2018



	Mohammed ali,Noha Ali Salah	Novel Zika virus inhibitors	
9	<b>Munirah almessiere</b> ,Reem aldaheel	Elemental analysis of fingernails using laser-induced breakdown spectroscopy for diagnosis of vitamin-D deficiency and other human tissues	2017-2018
10	Yassine Slimani, <b>Munirah Almessiere</b> ,Faten Azzouz	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	2018-2020
11	Yassine Slimani, <b>Munirah Almessiere</b> ,Abdulhadi baykal	Perovskite-based nanomaterials for (bio)sensors and biological applications	2020-2022

#### Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	Advance Nano Materials And Nanotechnology Conference	Penning – Malaysia (2016)	Attended
2	Frontiers in theoretical and applied physics	UAE (2017)	Attended
3	International conference on materials science and research	UAE(2017)	Attended
4	12th International Conference on Sustainable Energy & Environmental Protection SEEP 2019 University of Sharjah	UAE (2019)	Participated
5	3rd International Conference on Pharmaceutical Science and Vaccine Drug Delivery Systems held during February 05, 2021 in Webinar	England	Participated

6	2 <sup>cd</sup> iiScience international conference (2021)	Pakistan	Participated
7	Functional Nanoparticle Materials—Synthesis, Property and Applications	Germany	Participated

#### Membership of Scientific and Professional Societies and Organizations

- Quality comities
- Advisement comities
- Postgraduate Development comities
- Labs instrumentation comities
- Organize exam comities
- Coordinator of Student conference

#### Teaching Activities

##### Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	General physics(1)	Phys 101n	lectures
2	General physics (2)	Phys132n	lectures
3	Optics	Phys203n	lectures
4	Optics Lab	Phys203n	lab
5	General physics(1)	Phys 101n	lab
6	General physics (2)	Phys132n	lab
7	Seminar	PHYS 412 N	Supervision

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

1	General physics(1):Phys 101n General Physics 1 is designed to present concepts and applications of the following topics: Kinematic in one dimension , force and newton laws, work and energy, linear momentum ,pressure, fluids . There are three hours of lecture and two hours of laboratory each week
2	General physics(2): Phys132n General Physics 2 is designed to present concepts and applications of the following topics:,electric force and electric field , electric potential ,electric circuits, magnetic force and magnetic field ,electromagnetic induction . There are three hours of lecture and two hours of laboratory each week
3	Optics:Phys203n This course provides an introductory in geometrical and physical optics. Topics covered include: The Nature And Propagation Of Light, Reflection and refraction at a Dielectric , lenses and mirrors, prisms, Interface and optical interments ,Light-matter Interaction and lasers. As an application each part ends with a detailed study of various optical apparatus.
4	Seminar PHYS 412 n

This course provides a short research report in different topics of physics .

Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Solid State Defects		13 lectures
2	Advanced Materials Characterization Techniques		13 lectures +lab

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

1	<p><b>Solid State Defects</b> Defects play a critical role in controlling the properties of solids, which are needed for new functionality and reliability of solid-state devices and systems. The defects in solids can be generally classified into thermodynamic equilibrium (mostly point defects) and nonequilibrium defects (such as dislocations, stacking faults, grain boundaries etc.). This course starts with nature and properties of these defects and generation of point defects (by electron, photon and ion irradiation) and their clustering to form dislocation loops with and without faults. The course covers characteristics of defects in metals, ceramics and semiconductors and correlations of defect structures with mobility (diffusion) and annealing processes.</p>
2	<p><b>Advanced Materials Characterization Techniques:</b> Fundamental knowledge related to different characterization tools including diffraction, spectroscopic and microscopic techniques used to examine structural, morphological, compositional, physical.</p>

(mechanical, thermal, electrical, magnetic and optical), and surface (interfacial) properties.

#### Course Coordination

#	Course Title and Code	Coordination	Co-coordination	Undergrad.	Postgrad.	From	to
1	General physics(1)	yes		yes			
2	General physics (2)	Yes		yes			
3	Optics	yes		yes			

#### Student Academic Supervision and Mentoring

#	Level	Number of Students	From	to
1	L 1	14	1426	1432
2	L3	12	1432	1433
2	L5	15	1433	1434

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

#	Degree Type	Title	Institution	Date
1	MS	Effect Of Magnetic Nano-Partical Inclusions on YBCO Polycrystalline Pinning Properties	University of Dammam	2015-2017
2	MS	Synthesis and characterization of YAG phosphor for blue light conversion to white light	University of Dammam	2016-2018
3	MS	Synthesis of Novel Magnetoelectric Nanocomposites as Advanced anti-cancer drug invitro	Imam Abdulrahman bin faisal university	2019-2021
4	MS	Analysis of thermal fluctuation induced conductivity in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> -containing nanoparticles	Imam Abdulrahman bin faisal university	2019-2021
5	MS	Design and Structure of Nano Spinel Ferrite Based Electrodes for High Performance Supercapacitor Applications	Imam Abdulrahman bin faisal university	2020-2022
6	MS	Enhancement of superconducting performances of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> compound with co-addition of nanoparticles of ternary and binary perovskite oxides	Imam Abdulrahman bin faisal university	2020-2022
7	PhD	Curcumin dye extracted from curcuma longa L. used for UV light down conversion for	Universities Sains Malaysia	2017-2020
8	PhD	Magnetic and structural properties of novel hard/soft ferrites	Imam Abdulrahman bin Faisal University	2019-2022

		nanocomposites		
9	PhD	Upgradation of Laser Induced Breakdown Spectrometer for Elemental Analysis of Biological Samples	Imam Abdulrahman bin Faisal University	2019-2022
10	PhD	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-d</sub> polycrystalline	Imam Abdulrahman bin Faisal University	2019-2022
11	MS	Design and Structure of Nano Spinel Ferrite Based Electrodes for High Performance Supercapacitor Applications	Imam Abdulrahman bin Faisal university	2021-2022
12	PhD	Synthesis And Characterizations of Modified Multi-spinel-oxides Nano-Materials for Green Hydrogen Production Supported with DFT Study	Imam Abdulrahman bin Faisal University	2023-2025
13	PhD	Synthesis and Physicochemical Properties of Novel Doped Spinel Nanocomposites and Their Effects on Plants Physiology	Imam Abdulrahman bin Faisal University	2023-2025

**Administrative Responsibilities, Committee and Community Service**  
(Beginning with the most recent)

Scientific Consultations

#	From	To	Institute	Full-time or Part-time
1	2011	2012	Researcher, Research & Development Center - Saudi Aramco	Part time
2	19 July	28 august 2015	USM (Universities Sains Malaysia )	Part time
3	29 July	10 September 2016	Miami University	Part time
4	28 June	30 July 2017	UTM Malaysia	Part time
5	2017	Until now	Department of Nano-Medicine Research, Institute for Research & Medical Consultations (IRMC)	Part time
5	19 June 2018	30 July 2018	Université du Québec Institut national de la recherche scientifique Centre - Énergie,	Part time



			Matériaux et Télécommunications.canada	
6	8 June 2019	30 July 2019	Institute of Inorganic Chemistry, RWTH Aachen University, 52074 Aachen, Germany	Part time

#### Volunteer Work

#	Date	Type of Volunteer	Organization
1	2019	Training Part time researchers	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia
2	2020	Summer Training	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia
3	2020	Volunteer training Program	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia
4	2021	Mawhiba program	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia
5	2022	Mawhiba program	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia
6	2022	Summer Training	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia
7	2023	Mawhiba program	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam - Saudi Arabia

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

1	Match 3!
2	Origin
3	Gaussian G16 . MATLAB

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Last Update

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