



AFIF NEJI FOUZRI

Associated Professor

Personal Data

Nationality | Tunisian

Date of Birth | 11/12/1972

Department | Physics

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Mobile Number | 0507269178

Language Proficiency

Language	Read	Write	Speak
Arabic	Excellent	Excellent	Excellent
English	Good	Good	Good
Others=French	Excellent	Excellent	Excellent

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2012	Habilitation (HDR)	Faculty of sciences	Monastir-Tunisia
2002	PhD	Faculty of sciences	Monastir-Tunisia
1997	Master	Faculty of sciences	Monastir-Tunisia

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

HDR	Structural, morphology and optical properties of thin layers grown on different substrates nature and orientations.
PhD	Structural study, by X-ray scattering of water confined in amorphous silica gel. Structural study contribution of water-alcohol mixture.
Master	Structural study of water by X-rays scattering.

Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work	Date
Associate Professor	College of Science, Imam Abdulrahman Bin Faisal University	2016-present
Associate Professor	Higher Institute of Applied Science and Technology of Sousse, Tunisia.	2013-2016
Assistant Professor	Sciences Faculty of Monastir, Tunisia	1997-2013

Scientific Achievements

Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	Wided Chebil, Anisha Gokarna, Afif Fouzri , Najeh Hamdaoui, Komla Nomenyo and Gilles Lerondel.	Study of the growth time effect on the structural, morphological and electrical characteristics of ZnO/p-Si heterojunction diodes grown by Sol-gel assisted chemical bath deposition method	Journal of Alloys and Compounds 771 (2019) 448-455
2	Chebaane, M., Bellouz, R., Oumezzine, M., Hlil, E.K., Fouzri, A.	Copper-doped lanthanum manganite $\text{La}_{0.65}\text{Ce}_{0.05}\text{Sr}_{0.3}\text{Mn}_{1-x}\text{Cu}_x\text{O}_3$ influence on structural, magnetic and magnetocaloric effects	RSC Advances 8(13) (2018) 7186-7195.
3	W. Chebil, M.A. Boukadhaba, I. Madhi, A. Fouzri , A. Lusson, C. Vilar and V. Sallet,	Structural, optical and NO ₂ gas sensing properties of ZnMgO thin films prepared by the sol gel method.	Physica B 505 (2017) 9-16
4	W. Chebil, M.A. Boukadhaba, A. Fouzri	Epitaxial growth of ZnO on quartz substrate by sol-gel spin-coating method.	Superlattices and microstructures 95 (2016) 48-55.
5	M.A. Boukadhaba, W. Chebil, A. Fouzri , V. Sallet, A. Lusson, G. Amiri, C. Vilar and M. Oumezzine.	Effect of sapphire substrate orientations on the microstructural, optical and NO ₂ gas sensing properties of Zn(1-x)Cd _x O thin films synthesized by sol gel spin-coating method.	Superlattices and microstructures 94 (2016) 158-177.
6	Bilel Azeza, Ridha M'ghaieth, M.Helmi Hadj Alouanea, Bouraoui Ilahi, Larbi Sfaxi, Afif Fouzri , Bruno Masenelli, Hassen Maaref.	Initial assessment of InAs/GaAs QDs solar cell directly grown on Si substrate by molecular beam epitaxy	Materials 8(7) (2015) 4544-4552
7	M. A. Boukadhaba, A. Fouzri , V. Sallet, S. S. Hassani, G. Amiri, A. Lusson, and M. Oumezzine	Characterization of ZnO thin film grown on c-plane substrates by MO-CVD: Effect of substrate annealing temperature, vicinal-cut angle and miscut direction	Superlattices and microstructures 85 (2015) 820-834.
8	M. Souissi, A. Fouzri and G. Schmerber	Highlighting of ferromagnetism above room temperature in Cd-doped ZnO thin films grown by MOCVD	Solid State Communications 218 (2015) 40-44
9	M. A. Boukadhaba, A. Fouzri , V. Sallet, S. S. Hassani, G. Amiri, A. Lusson, and M. Oumezzine.	High-temperature annealing effect on $\alpha\text{-Al}_2\text{O}_3$ (0001) substrates with nominally 0.25° miscut toward the	Applied Physics A: Materials Science and Processing 120(3) (2015) 991-1000.



		a-plane (11-20) of ZnO films grown by MO-CVD.	
10	W. Chebil, A. Fouzri , A. Fargi, B. Azeza, Z. Zaaboub and V. Sallet	Characterization of ZnO thin films grown on different p-Si substrate elaborated by sol-gel spin-coating method	Materials Recherche Bulletin 70 (2015) 719-727.
11	W. Chebil, A. Fouzri , N. Sakly, A. Lusson and V. Sallet.	Comparison of ZnO thin films on different substrates obtained by sol-gel process and deposited by spin-coating technique	Indian journal of pure and applied physics 53 (8) (2015) 521-529.
12	M. A. Boukadhaba, W. Chebil, A. Fouzri , V. Sallet, A. Lusson, C. Sartel and M. Oumezzine.	Microstructural and optical properties of Zn(1-x)Cd _x O thin films grown on r-plane sapphire substrates: Effect of growth temperature and position of sample in MO-CVD reactor.	Ceramics International, 41 (2015) 1677-1685.
13	A. Fouzri , M. A. Boukadhaba, A. Touré, N. Sakly, A. Bchetnia and V. Sallet	Structural, morphological and optical properties of Cd doped ZnO film grown on a- and r-plane sapphire substrate by MOCVD.	Applied Surface Science, 311 (2014) 648-658.
14	M. A. Boukadhaba, A. Fouzri , C. Saidi, N. Sakly, A. Souissi, A. Bchetnia, V. Sallet and M. Oumezzine.	Characterizations of ZnO and Zn(1-x)Cd _x O thin films grown on Zn- and O-face ZnO substrates by Metal Organic Chemical Vapor Deposition.	Journal of crystal Growth, 395 (2014) 14-21.
15	M. Debbichi, M. Souissi, A. Fouzri , G. Schmerber, M. Said and M. alouani	Room temperature ferromagnetism in Cd-doped ZnO thin films through defect engineering	Journal of Alloys and Compounds, 598 (2014) 120–125
16	I. Halidou, A. Touré, A. Fouzri , M. Ramonda, B. El Jani	Effect of GaN template thickness and morphology on Al _x Ga _{1-x} N (0 < x < 0.2) growth by MOVPE	Applied Surface Science, 280 (2013) 660-665.
17	C. Saidi, N. Chaaben, A. Bchetnia, A. Fouzri , N. Sakly, B. El Jani	Growth of scandium doped GaN by MOVPE	Superlattices and Microstructures, 60 (2013) 120-128
18	S. El Helali, K. Daoudi, A. Fouzri , M. Oumezzine, M. Oueslati, T. Tsuchiya.	Effects of Substrate-Induced-Strain on the Structural and Transport Properties of La _{0.7} Ca _{0.3} MnO ₃ Thin Films	Applied Physics A: Materials Science and Processing 108 (2) (2012), 379-384.
19	A. Touré, I. Halidou, Z. Benzarti, A. Fouzri , A. Bchetnia and B. El Jani	Characterization of low Al content Al _x Ga _{1-x} N epitaxial films grown by atmospheric-pressure MOVPE	Phys. Status Solidi (A) Applications and Materials Sciences, 209 (5) (2012) 977-983.
20	A. Fouzri , M. A. Boukadhaba, V. Sallet and M. Oumezzine.	Structural properties of Zn(1-x)Cd _x O solid solution grown on ZnO and C-plane sapphire substrate	Thin solid films 520 (2012) 2582-2588.
21	A. Fouzri , F. Salah, N. Mtiraoui, B. Harzallah and M. Oumezzine.	Background subtraction practice in X-ray reflectivity reciprocal space mapping and its influence on the structural parameters of thin films	Journal Instruments and Experimental Techniques (Springer) 55 (2012) 96-103.



22	Fouzri, A. , Boukadhaba, M.A., Oumezzine, M., Bchetnia, A., Sallet, V.	Structural, morphology and optical properties of Zn _(1-x) Cd _x O solid solution grown on c-plane sapphire substrate	EPJ Web of Conferences 29 (2012) 00019
23	F. Saidi, R. Hamila, B. Ilahi, A. Fouzri , M. Khalfioui, and H. Maaref.	Structural and optical properties of GaAs _{1-x} N _x /GaAs grown by MBE.	Sensor Letters 9 (2011) 1–4.
24	A. Fouzri , V. Sallet and M. Oumezzine.	Structural and morphology study of Zn(1-x)Cd _x O solid solution grown on ZnO and different sapphire orientations	Journal of crystal growth, 331 (2011) 18-24.
25	B. Azeza, L. Sfaxi, R. M'ghaieth, A. Fouzri and H. Maaref.	Growth of n-GaAs layer on a rough surface of p-Si substrate by Molecular Beam Epitaxy (MBE) for photovoltaic applications.	Journal of crystal growth , 371 (2011) 104-109.
26	K. Daoudi, T. Tsuchiya, T. Nakajima, A. Fouzri , M. Oueslati	Epitaxial growth of La _{0.7} Sr _{0.3} CoO ₃ thin films on SrTiO ₃ substrates by metal-organic deposition.	Journal of Alloys and Compounds, 506 (2010) 483-487.
27	R. Hamila, F. Saidi, A. Fouzri , L. Auvray, Y. Monteil and H. Maaref	Clustering effects in optical properties of BGaAs/GaAs epilayers	Journal of Luminescence, 129 (2009) 1010-1014.
28	M. Souissi, H. Touati, A. Fouzri , A. Bchetnia, B. El Jani	Effect of carrier gas on the surface morphology of V-doped GaN layers.	Microelectronics Journal, 39 (2008) 1521-1524
29	L. Beji, A. Missaoui, A. Fouzri , H. Ben Ouada, H. Maaref and A. Bouazizi	Nanostructurale nature of the porous GaAs layer formed on p+-GaAs substrate by electrochemical anodization	Microelectronics Journal, 37 (2006) 783-785.
30	H. Fitouri, I. Moussa, A. Rebey, A. Fouzri and B. El Jani	AP-MOVPE of thin GaAs _{1-x} B _x alloys	Journal of Crystal Growth, 295 (2006) 114-118
31	M. Habchi, A. Rebey, A. Fouzri and B. El Jani.	Laser reflectometry in situ monitoring of InGaAs grown on GaAs by AP-MOVPE	Applied Surface Science, 253 (2006) 241-245.
32	N. Chaaben, T. Boufaden, A. Fouzri , M.S. Bergaoui and B. El Jani	High resolution X-ray diffraction of GaN grown on Si(111) by MOVPE	Applied Surface Science, 253 (2006) 275-278.
33	A. Fouzri , R. Dorbez-Sridi and M. Oumezzine.	Study on structural modification of water confined in silica gel	Journal of Physic IV France, 118 (2004) 85-92.
34	A. Fouzri , R. Dorbez-Sridi and M. Oumezzine.	Differential Scanning Calorimetry and X-ray Diffraction Study of Water Confined in Silica Gel for Several Levels of Hydration	The European Physical Journal Applied Physics, 22 (2003) 21-28.
35	A. Fouzri , R. Dorbez-Sridi and M. Oumezzine.	Water-silica gel interaction, X-ray diffraction study at room and low temperature	Biomolecular Engineering, 19 (2002) 207-210.
36	A. Fouzri , R. Dorbez-Sridi and M. Oumezzine.	Water confined in silica gel and in vycor at low and room temperature, X-ray diffraction	Journal of Chemical Physics, 116 (2002) 791-797.



		study	
37	A. Fouzri , R. Dorbez-Sridi and M. Oumezzine.	Water confined in silica gel at room temperature, X-ray diffraction study	International Journal of Inorganic Materials, 3 (2001) 1315-1317.

Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
1	A. Fouzri , R. Dorbez-Sridi M. C. Bellissent-Funel and M. Oumezzine "Biology and Disordered Systems" group Léon Brillouin Laboratory (LLB) at the Atomic Energy Commissariat (CEA) in Paris (France). Saclay F- 91191, Gif-sur-Yvette, France:"	Scattering study of X-rays and neutrons, aqueous solutions confined in matrices with controlled porosity".	2006
2	A. Fouzri , R. Dorbez-Sridi Hassene Oudadasse Laboratory of Chemistry of Solid and Materials (LCSM) LCSM-UMR 6226 – Crystallo-chemistry and Biomaterials, University of Rennes 1	Elaboration and physico-chemistry of pure and doped bioactive glasses with controlled porosity. Study of the biomaterials-physiological liquid interface	2013
3	A. Fouzri , Vincent Sallet New Semiconductors and Properties Team (NSP) (GEMAC) University of Versailles Saint Quentin Yveline Paris France	Elaboration and structural characterization of ZnO and ZnCdO solid solution grown by MO-CVD on ZnO and sapphire substrates oriented A, R et C	2015
4	Elaboration and characterization of ZnO nano-rod on p-Si substrate by Chemical bath deposition (CVD)	A. Fouzri , W. Chebil, M. A. Boukadhaba, Gilles Léron del	

Current Researches

#	Research Title	Name of Investigator(s)
1	Rare earth doped ZnO (n)/Si (p) junctions for optoelectronic applications.	Afif Fouzri , Faten Kaddour Ben Azzouz, Taher Hcin Ghib, Moayad Husein Alhaj Mahmoud Flaifel, Ridha Hamdi, Amal Lafy Alotiaibi and Tahani Hasan Felemban.



Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	Epitaxial growth of ZnO on quartz substrate by sol-gel spin-coating method	20-24 March 2014, hammamet, TUNISIA.	Participation
2	Structural and morphological study of ZnO thin films prepared on different substrates by sol-gel process and deposited by spin-coating technique	02-05 November 2014, Jerba, TUNISIA.	Participation
3	Structural, morphological and optical properties of a-plane Zn(1-x)Cd _x O thin films grown on r-plane sapphire by metal-organic chemical vapor deposition (MOCVD)	02-04 May 2014 Hammamet, Tunisia	Participation
4	Study of InGaAs/GaAs layers by high resolution X-ray diffraction and in situ monitored by spectral reflectance	E-MRS Meeting Strasbourg France May 2012	Participation
5	Characterization of diluted GaAsBi epitaxied on (111)A GaAs substrates	E-MRS Meeting Strasbourg France May 2012	Participation
6	Scandium incorporation effects on GaN properties	E-MRS Meeting Strasbourg France May 2012	Participation
7	Structural, morphological and optical study of Zn(1-x)Cd _x O solid solution grown on ZnO and different sapphire orientations	International Workshop on ZnO Oxide and Related Materials, 11-14 September 2012 Nice, France.	Participation
8	Structural, optical and surface morphologies, of homoepitaxial Zn(1-x)Cd _x O grown (0001) Zn- and (000 $\bar{1}$) surface ZnO substrates by (MO-CVD).	International Workshop on ZnO Oxide and Related Materials, 11-14 September 2012 Nice, France.	Participation
9	Preparation and characterisation of ZnO	International Workshop on ZnO Oxide and Related Materials, 11-14	Participation



	thin films deposited by sol-gel spin-coating technique on glass and sapphire (0001) substrate	September 2012 Nice, France.	
10	Structural, morphology and optical properties of Zn(1-x)Cd _x O solid solution grown on c-plane sapphire	First Euro-Mediterranean Meeting on Functionalized Materials, EMM-FM 2011 September 6-10, 2011, Sousse , TUNISIA.	Participation
11	Structural and optical properties of GaAs _{1-x} N _x /GaAs grown by MBE	MADICA 2010 , Mahdia, TUNISIE.	Participation
12	Etude expérimentale par diffusion de rayons X, de la structure de l'eau confinée dans les nanopores du MCM-41	Materials and X-ray 2009, Orsay, France 8-11 December 2009.	Participation
13	Data reduction practice in X-ray reflectivity reciprocal space mapping	E-MRS Meeting Strasbourg France June 2009.	Participation
14	Laser reflectometry in situ monitoring of InGaAs Grown by AP-MOVPE	E-MRS Meeting Strasbourg France 31 may – 3 June 2005.	Participation
15	Etude, par analyse thermique et diffraction des rayons X à basse température, des modifications structurales de l'eau confinée dans divers milieux poreux	7ème Journées Francophones des Jeunes Physico-Chimistes Monastir Tunisie, 19-21 March 2004.	Participation
16	Etude des modifications structurales de l'eau confinée dans le gel de silice	Materials and X-ray 2003, Strasbourg, France 9-11 december 2003.	Participation
17	Etude structural, par diffraction des rayons X, de l'eau confine dans le polyHEMA, dans les gels de silice, dans le charbon actif et à la surface de la myoglobine	6ème Journées Francophones des Jeunes Physico-Chimistes Marseille, 3-5 july 2002.	Participation
18	Water-silica gel interaction, X-ray diffraction study at room and low temperature	E-MRS Meeting Strasbourg France 5 – 8 June 2001.	Participation
19	Water confined in silica	E-MRS Meeting Strasbourg France 30	Participation



	gel at room temperature, X-ray diffraction study.	may – 2 June 2000.	
20	Water confined in silica gel at room temperature, X-ray diffraction study	Sixth International Meeting On Materials Science, M'Sila, Algeria, April 3-5, 2000.	Participation
21	Structural study, by X-ray diffraction, of water confined in Vycor	CEM2C Meeting, Nantes, September 1998.	Participation

Membership of Scientific and Professional Societies and Organizations

- Member of Tunisian Crystallographic Association

Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
	Physics I	Phys 202	Lectures
	Statistical Physics	Phys 405N	Lectures
	Electricity and Magnetism	Phys 301	Lectures
	Electromagnetism 2	Phys 304N	Lectures
	Atomic Physics	Phys 402N	Lectures

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

1	Physics I, (Phys 202)
2	Statistical Physics, (Phys 405N)
3	Electromagnetism 2, (Phys 304N)
4	Atomic Physics, (Phys 402N)

Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
	Advance Quantum Mechanics	Phys 543	Lectures

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

	Fundamental concepts, Quantum dynamics, Approximation methods, Scattering theory
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Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date
	PhD	Elaboration and characterization of undoped	Sciences college of Monastir Tunisia	2017



		and doped zinc oxide thin films prepared by sol-gel process and deposited on different substrates nature		
	PhD	Structural, morphology and optical properties of ZnO and Zn(1-x)Cd _x O thin layers grown by MOCVD on different substrates nature and orientations	Sciences college of Monastir Tunisia	2016
	Master	Optical and structural characterisation of zinc oxide thin films prepared by sol-gel process on glass and sapphire substrate	Sciences college of Monastir Tunisia	2012
	Master	Structural and morphology study of Zn(1-x)Cd _x O solid solution grown on C-plane sapphire substrate by MO-CVD	Sciences college of Monastir Tunisia	2011
	Master	Measurement practice and reduction data in X-ray reflectivity	Sciences college of Monastir Tunisia	2009
	Master	Experimental Study by X-ray scattering, of water and methanol confined in the MCM-41 nanopores	Sciences college of Monastir Tunisia	2009

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

Committee Membership

#	From	To	Position	Organization
	2016	2017	Member of PhD program development committee- Physic Dept.	College of Science, Imam Abdulrahman Bin Faisal University

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

1	X-ray Diffraction, X-ray reflectivity, structural, optic and morphological characterizations of thin films
2	Elaboration of ZnO nano-rod on p-Si substrate by Chemical bath deposition (CVD)

Last Update

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