Curriculum Vitae

Kais Daoudi, **Ph.D.**
Department of Applied Physics and Astronomy
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Name :	**Kais Daoudi**
Academic Rank	Professor
University	University of Sharjah
College	Sciences
Department	Applied Physics and Astronomy
Specialisation	Experimental Condensed Matter Physics

Scopus: (https://www.scopus.com/authid/detail.uri?authorId=8592527200) ID: 8592527200
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Research Gate: https://www.researchgate.net/profile/Kais_Daoudi

Academic Qualifications

- **Habilitation in Physics**

January 2019: Faculty of Sciences of Tunis – Tunis El-Manar University, **TUNISIA**.
Research theme: Growth, structural and physical properties of perovskite type functional oxides thin films using metal organic deposition technique.

- **PhD. in Physics - Optoelectronics**

May 2003: Claude Bernard University. Lyon **FRANCE** and Tunis El-Manar University, **TUNISIA.**
Research theme: "Preparation and characterization of tin-doped indium oxide thin films obtained by sol-gel route - Potentiality to obtain transparent electrode on porous silicon"
Supervisor: Professor Jean Alain Roger and Professor Meherzi Oueslati

- **Master of Science in Physics - Quantum Physics**

October 1999: Faculty of Sciences of Tunis - Tunis El-Manar University, **TUNISIA.**
Research theme: "Photoluminescence and Raman Spectrometry characterization of porous silicon prepared by Vapor-etching method"
Supervisor: Professor: Meherzi Oueslati

- **Bachelor of Science in Physics**

June 1997: Faculty of Sciences of Tunis - Tunis El-Manar University, **TUNISIA.**

Employment History

- University of Sharjah, College of Sciences, Department of Applied Physics and Astronomy, Sharjah, UAE. June 2023 - Present.
  Academic Rank: Professor
- University of Sharjah, College of Sciences, Department of Applied Physics and Astronomy, Sharjah, UAE. January 2018 – June 2023.
  Academic Rank: Associate Professor
- University of Sharjah, College of Sciences, Department of Applied Physics and Astronomy, Sharjah, UAE. September 2014 – 2018.
  Academic Rank: Assistant Professor
- United Arab Emirates University, College of Sciences, Department of Physics, Al-Ain, UAE, 2012-2014. *Academic Rank*: College Instructor
- Sultan Qaboos University, College of Sciences, Physics Department, Muscat, OMAN, Spring Semester 2012, Academic Rank: Visiting Assistant Professor.
- Faculty of Sciences, University of Monastir, Physics Department, Monastir, TUNISIA, 2007-2012. Academic Rank: Assistant Professor.
- National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, JAPAN. September 2003 – July 2007. Academic Rank: Postdoctoral Research Fellow.
- University of Blaise Pascal, Clermont-Ferrand – FRANCE. 2002-2003. Academic Rank: Research & Teaching Assistant (Attaché Temporaire d'Enseignement et de Recherche: ATER).
- Institut National de la Recherche Scientifique et Technique (INRST), Tunis – TUNISIA. January 2000 – September 2000. Academic Rank: Assistant Researcher.

Research Interests:

My research interests are on the synthesis, characterization, and device applications of thin films oxides materials such as indium tin oxide (ITO), tin oxide (SnO_2), manganites (LCMO) and cobaltites (LSCO) materials. Such oxides thin films can be easily prepared in polycrystalline or monocrystalline forms on various substrates using chemical processes like Sol-Gel or Metal Organic Deposition (MOD). I am mainly focused on the study of the strain effects on the physical properties of epitaxial thin films. The strain in film can be easily manipulated by varying the thickness or the substrate material in view of tuning some physical properties for several interesting technological applications. In order to quantify the strain states in thin film, I am conducting some structural investigations using high resolution X-ray diffraction (HRXRD) and micro-Raman spectroscopy. Another important research area that I am interested in is the epitaxial growth mechanism of oxides thin films using excimer laser irradiations.

Recently, I am involved in the fabrication and characterization of nanocomposite structures based on silicon nanowires (SiNWs) for various applications such as optical sensors (SERS) and photocatalytic materials.

Recent research projects

- Principal Investigator: Seed Research Grant (New Faculty): 20.000 AED, Project title: Study and Fabrication of Functional Oxides Thin Films.
- Co-investigator: Competitive Research Grant: 80.000 AED, Project title: Novel metal oxide/nanoporous composite coatings for enhancing silicon solar cells photo-conversion and for high sensitivity gas sensors.
- Co-investigator: Competitive Research Grant: 75.000 AED, Project title: Investigation of the thermal properties of the Aluminum Cladding façades in the construction of towers in the United Arab Emirates.
- Co-investigator: Collaborative research grant (UOS and Sharjah Research Academy): 200,000 AED, Project title: Development of Graphene-doped Silicon Nanowires for room temperature polluting gas sensors and air quality control.
- Co-Investigator: Research grant 190 k AED, Project title: Development of Copper-Silver Nanoparticles decorated Silicon Nanowires/TiO2 nanocomposite for high sensitive and fast gas/bio-sensing and water treatment applications.

Research skills

- Thin films preparation (Sol-Gel, Metal organic Deposition (MOD), ...)
- Optoelectronics
- Transparent conducting oxides (ITO, SnO_2…),
- Magnetism
- Manganite thin films for bolometric and spintronic applications,
- Cobaltites thin films,
- Nanoporous Silicon and nanostructured oxide materials,
- Pulsed-laser processing,
- Transmission Electron Microscopic (TEM),
- Spectroscopic investigation of semiconductors (Photoluminescence and Raman Spectroscopy).
- Silicon nanowires preparation using metal assisted chemical etching (MACE).
- Surface enhanced Raman spectroscopy (SERS) sensors.
- Photocatalytic materials.

Supervisory on research

M.Sc. Thesis

2022-2023:

- Rania Ziad: Master of Chemistry at the College of Sciences, University of Sharjah
  Research Theme: Efficient Surface Enhanced Raman Spectroscopy Sensing of Bovine Serum Albumin using Green Synthesized Silver Nanoparticles

2009-2010:

- **Imen Chermiti,** Master of Quantum Physics at the Faculty of Sciences of Tunis.
  Research theme: Raman Spectroscopy study of the $La_{1-x}Ca_xMnO_3$ thin films.
- **Saoussen El Helali,** Master of Physics at the Faculty of Sciences of Monastir.
  Research Theme: Study of the structural and electrical properties of manganites thin films obtained by metal organic deposition.

2011-2012:

- **Zied Othmen:** Master of Condensed Mater Physics, Faculty of Sciences of Tunis.
  Research theme: Raman Spectroscopy investigations of the Jahn-Teller distortions in the perovskite oxides thin films.

PhD. Thesis

- Co-supervisor with Professor Mohamed Oumezzine of the PhD. thesis of Saoussen El Helali, Faculty of Sciences of Monastir, 2010-2016 (defended on April 2016).
- Co-supervisor with Professor Meherzi Oueslati of the PhD. thesis of Zied Othmen, Faculty of Sciences of Tunis, Tunis El-Manar University, Tunis, Tunisia, (defended on October 2016).

Research at the University of Sharjah:

- Member of Functional Materials Research Group, University of Sharjah, Sharjah, United Arab Emirates since Jan. 2015.
- Member of the Center of Advanced Materials Research (CAMR) since Oct. 2015.
- Member of the Research Unite of Photonics and Nanomaterials at the University of Tunis El-Manar, Tunis, Tunisia, since Sept. 2007.

International Collaborations:

- **Dr. Tetsuo Tsuchiya:** National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, JAPAN.
- **Prof. Brahim Dkhil :** Laboratoire Structures, Propriétés et Modélisation des Solides, CNRS-UMR 8580, Ecole Centrale Paris, France.
- **Dr. Michel Boudard :** Laboratoire des Matériaux et du Génie Physique, CNRS-UDG-Grenoble INP, Minatec 3, Parvis Louis Néel, CNRS 50257, Grenoble, France.
- **Prof. Meherzi Oueslati:** Research Unit of Nanomaterials and Photonics, faculty of Sciences of Tunis, Tunis El Manar University, Tunis, Tunisia.
- **Prof. Mohamed Oumezzine:** Physics Department, Faculty of Sciences, University of Monastir, Tunisia.
- **Dr. Rui Pereira**: Department of Physics and I3N, University of Aveiro, Aveiro, Portugal

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ORCID ID : https://orcid.org/0000-0002-1745-3140
Google Scholar: Kais Daoudi

Research Gate: https://www.researchgate.net/profile/Kais_Daoudi

Courses Taught at the University of Sharjah

- Electromagnetic Theory
- Electricity and Magnetism 1
- Electricity and Magnetism 2
- Physics 1
- Physics 2
- Physics for Health Sciences
- Physics for Medical Sciences
- Remedial Physics

Contribution to University and the Community Services

- Chair and member of the **Seminars Committee** of the Department of Applied Physics and Astronomy.
- Representing the College of Sciences at the **University of Sharjah Open day**.
- Representing the College of Sciences at **Sharjah Innovation Week**.
- Representing UOS at the "**Think Science**" Fair and Connect Platform.
- Member of the **Organizing Committee** of the First Sharjah International Conference on Particle Physics, Astronomy and Cosmology (FISICPAC) - 2018.
- Member of the **Scientific Committee** of the Sharjah International Conference on Physics of Advanced Materials (SICPAM).
- Regular **reviewer** for several Elsevier, Springer and IOP Journals (Surfaces and Interfaces, Materials Sciences and Engineering B, Nanotechnology, Journal of Materiomics…).
- Participating at the **Jury** of three Master student at the United Arab Emirates University.
- Member of the **Webpage Committee** of the College of Sciences.
- Member of the **Advising and Student Success Committee** of the Colleges of Sciences.
- Chair of the **Outreach Committee** of the Department of Applied Physics and Astronomy.
- Member of the **Library Committee** of the Department of Applied Physics and Astronomy.
- Member of the **Research Committee** of the Department of Applied Physics and Astronomy.

PUBLICATIONS

A) Articles in Referred International Journals

1) Confined assembly of size-tunable silver nanoprisms on flexible Teflon tapes as highly active SERS hotspots for ultralow-level sensing of DNA and glucose
Soumya Columbus, Kais Daoudi, Krithikadevi Ramachandran, Mohamed Shameer, Hassen Hadj Kacem, Hussain Alawadhi, Mounir Gaidi.
Sensors and Actuators B: Chemical 398, (2024) 134780.

2) Multi-functional silver nanoprism-titanium dioxide hybrid nanoarrays for trace-level SERS sensing and photocatalytic removal of hazardous organic pollutants
Rania Ziad, Soumya Columbus, Abdelaziz Elgamouz, Kais Daoudi, Abdel-Nasser Kawde, Krithikadevi Ramachandran, Mounir Gaidi
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 297 (2023) 122701

3) Highly efficient, multiplexed SERS sensing of para-aminobenzoic acid using reusable silver nanoarrays for environmental monitoring
Mohmmed Sharmee, K Vijai Anand, Soumya Columbus, Hussain Alawadhi, Kais Daoudi, Mounir Gaidi, K Govindaraju
Materials Science and Engineering: B 295 (2023) 116576

4) Rapid screening of Turkey DNA fingerprint using highly sensitive label free plasmonic SERS biosensor
Hassen Hadj Kacem, Krithikadevi Ramachandran, Gurukaelaiarasu Tamilarasi Mani, Soumya Columbus, Kais Daoudi, Siva Chidambaram, Bashir Suleiman, My Ali El Khakani, Mounir Gaidi, Surfaces and Interfaces, in press (2023).

5) Trace-level sensing of food toxins by flexible and cost-effective SERS sensors fabricated by pulsed-laser-deposition of gold nanoparticles on polycarbonate matrix
Hussain Alawadhi, Moza Ali Alnaqbi, Krithikadevi Ramachandran, Soumya Columbus, Kais Daoudi, Siva Chidambaram, My Ali El Khakani, Mounir Gaidi, Surfaces and Interfaces, 40 (2023) 103016.

6) Highly efficient, multiplexed SERS sensing of para-aminobenzoic acid using reusable silver nanoarrays for environmental monitoring
Mohamed Shameer, K Vijai Anand, Soumya Columbus, Hussain Alawadhi, Kais Daoudi, Mounir Gaidi, K Govindaraju, Materials Science and Engineering: B, 295 (2023) 116576.

7) Multi-functional silver nanoprism-titanium dioxide hybrid nanoarrays for trace-level SERS sensing and photocatalytic removal of hazardous organic pollutants
Rania Ziad, Soumya Columbus, Abdelaziz Elgamouz, Kais Daoudi, Abdel-Nasser Kawde, Krithikadevi Ramachandran, Mounir Gaidi, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 297 (2023) 122701.

8) Label-free DNA detection using Silver nanoprism decorated Silicon nanoparticles: Effect of Silicon nanoparticle size and doping levels

Kais Daoudi, Soumya Columbus, Bruno P. Falcão, Rui N. Pereira, Suzana B. Peripolli, Krithikadevi Ramachandran, Hassen Hadj Kacem, Anis Allagui, Mounir Gaidi

Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 290 (2023) 122262

9) Engineered micro-pyramids functionalized with silver nanoarrays as excellent cost-effective SERS chemosensors for multi-hazardous pollutants detection

José Ferreira de Sousa Junior, Soumya Columbus, Jannat Hammouche, Krithikadevi Ramachandran, Kais Daoudi, Mounir Gaidi, Applied Surface Science 613 (2023) 156092

10) Synergism induced sensitive SERS sensing to detect 2, 6-Di-t-butyl-p-hydroxytoluene (BHT) with silver nanotriangles sensitized ZnO nanorod arrays for food security applications

K. Ramachandran, A. Hamdi, S. Columbus, N. Al Meselmene, E. Dogheche, K. Daoudi, M. Gaidi, *Surfaces and Interfaces 35 (2022) 102407.*

11) Facile, Flexible, Fast': Highly sensitive and Low-cost paper sensor for real time spike protein sensing with SERS

K. Ramachandran, K. Daoudi, M. Gaidi, J. Hammouche, S. Chidambaram, *Materials Science and Engineering: B 286 (2022) 115984*

12) Rapid and ultra-sensitive detection of pork DNA with surface enhanced Raman spectroscopy for onsite food quality inspection

K. Ramachandran, K. Daoudi, H.H. Kacem, S. Columbus, H. Benaoum, M. Gaidi, *Sensing and Bio-Sensing Research 38 (2022) 100524.*

13) Assessing the efficiency of photocatalytic removal of alizarin red using copper doped zinc oxide nanostructures by combining SERS optical detection

S. Columbus, J. Hammouche, K. Ramachandran, K. Daoudi, M. Gaidi, *Journal of Photochemistry and Photobiology A: Chemistry 432 (2022) 114123.*

14) Synergism induced sensitive SERS sensing to detect 2, 6-Di-t-butyl-p-hydroxytoluene (BHT) with silver nanotriangles sensitized ZnO nanorod arrays for food security applications

K. Ramachandran, A. Hamdi, S. Columbus, N. Al Meselmene, E. Dogheche, K. Daoudi, M. Gaidi, *Surfaces and Interfaces 35 (2022) 102407.*

15) Rapid and ultralow level SERS detection of ethylparaben using silver nanoprisms functionalized sea urchin-like Zinc oxide nanorod arrays for food safety analysis

S. Columbus, A. Hamdi, K. Ramachandran, K. Daoudi, E.H. Dogheche, M. Gaidi, *Sensors and Actuators A: Physical 347 (2022) 113962.*

16) Tailoring the optical band gap of In–Sn–Zn–O (ITZO) nanostructures with co-doping process on ZnO crystal system: an experimental and theoretical validation

N. Mastour, K. Ramachandran, S. Ridene, K. Daoudi, M. Gaidi, *The European Physical Journal Plus 137 (10) (2022) 1-11.*

17) Dual phenomenon of surface plasmon and laser optics induced EM enhancement for rapid DNA detection with semiconductor nanostructures (SiNWs/AgNPs)

K. Ramachandran, K. Daoudi, S. Columbus, A. Tlili, M. Gaidi, *Journal of Physics: Conference Series 2327 (1) (2022) 012018.*

18) Green production of self-assembled silver nanoarrays on flexible substrate for direct detection and catalytic degradation of organic water pollutants
K. Ramachandran, K. Daoudi, S. Columbus, S. Chidambaram, M. Gaidi, Environmental Technology & Innovation 27 (2022) 102409.

19) Bio fabrication of 2D MgO/Ag nanocomposite for effective environmental utilization in antibacterial, anti-oxidant and catalytic applications
J Maruthai, K Ramachandran, A Muthukumarasamy, S Chidambaram, M. Gaidi, K. Daoudi.
Surfaces and Interfaces 30 (2022)101921.

20) TiO2/Si nanowires hybrid system for efficient photocatalytic degradation of organic dye.
K. Ramachandran, R. Ziad, S. Columbus, K. Daoudi, J. Hammouche, My Ali El Khakani, S. Chidambaram and M. Gaidi,
J Mater Sci: Mater Electron 33 (2022) 9194.

21) Solution combustion synthesis of iron tungstate nanoparticles for photoelectrochemical water splitting towards oxygen evolution.
S. Chidambaram, K. Ramachandran, M. Gaidi, K. Daoudi and M. Natarajamoorthy,
Journal of Materials Science: Materials in Electronics 33 (2022) 9134.

22) Synthesis, characterization and photo-electrochemical properties of novel Cu (Cr1-x, Alx) 2O4 spinel oxides for enhanced photodegradation of organic dyes under UV light
A. Bahdaouia, S. Amara, L. Adnane, S. Columbus, K. Daoudi, A. Mahieddine
International Journal of Hydrogen Energy 47 (15) (2022) 9301-9318.

23) Hierarchically assembled silver nanoprism-graphene oxide-silicon nanowire arrays for ultrasensitive surface enhanced Raman spectroscopy sensing of atrazine.
K. Daoudi, M. Gaidi, S. Columbus, M. Shameer, H. Alawadhi,
Materials Science in Semiconductor Processing 138 (2022) 106288.

24) Thermal Conduction: Computational Model and Engineering Applications
BM Suleiman, HY Youssef, K Daoudi, Z Aghbari, AA Amani, M Kaidi
Materials Science Forum 1053 (2022) 61-70

25) Ultra-sensitive and fast optical detection of the spike protein of the SARS-CoV-2 using AgNPs/SiNWs nanohybrid based sensors.
K. Daoudi, K. Ramachandran, H. Alawadhi, R. Boukherroub, E. Dogheche, M.A. ElKhakani, M. Gaidi,
Surfaces and Interfaces, 27 (2021) 101454

26) Fabrication of highly oriented 1D SiNW arrays/Au for femto molar level detection of H1N1 protein.
K. Ramachandran, S. Columbus, S. Chidambaram, K. Daoudi, M.A ElKhakani, M. Gaidi, *Materials Letters, 300 (2021) 130184.*

27) Tuning the nanostructural properties of silver nanoparticles for optimised surface enhanced Raman scattering sensing of SARS CoV-2 spike protein.
K. Daoudi, K. Ramachandran, S. Columbus, A. Tlili, M. Mahfood, M.A. ElKhakani, M. Gaidi
Advances in Natural Sciences: Nanoscience and Nanotechnology, 12 (2021) 035011.

28) Structural and morphological optimization of Ni doped ZnO decorated silicon nanowires for photocatalytic degradation of methylene blue.
J. Hammouche, K. Daoudi, S. Columbus, R. Ziad, K Ramachandran, M. Gaidi
Inorganic Chemistry Communications 131 (2021) 108763

29) Fast, highly sensitive and label free detection of small genetic sequence difference of DNA using novel Surface-Enhanced Raman Spectroscopy nanostructured sensor
M. Gaidi, K. Daoudi, A Tlili, S. Columbus, J. Leblanc-Lavoie, K. Ramachandran, B. Suleiman, A.N. Alhazaa, M.A. El Khakani
Sensing and Bio-Sensing Research 32, 100406

30) Electronic interactions between graphene and cobaltite thin film La0.7Sr0.3CoO3 and its magnetic consequences.
Z. Othmen, R. Othmen, K. Daoudi, M. Boudard, A. Cavanna, A. Madouri, P. Gemeiner, D.C. Lupascu, M. Oueslati, B. Dkhil,
Surfaces and Interfaces, 23 (2021) 100919.

31) Enhanced photocatalytic activities of silicon nanowires/graphene oxide nanocomposite: Effect of etching parameters.
M. Gaidi, K. Daoudi, S. Columbus, A. Hajjaji, M.A. Elkhakani, B. Bessais.
Journal of Environnemental Sciences 101 (2021) 123–134

32) Silver nanoprisms/graphene oxide/silicon nanowires composites for R6G surface-enhanced Raman spectroscopy sensor.
K. Daoudi, M. Gaidi, and S. Columbus,
Biointerface Research in Applied Chemistry 10 (2020) 5670.

33) Modified Clay as Thermal Backfill Material for Buried Electrical Cables
B.M. Suleiman, K Daoudi, A.G. Attaelmanan, M. Al Zaylaie, M. Gustavsson
Thermal Science and Engineering Progress, (2020) 100589.

34) Structural effects of silver-nanoprism-decorated Si nanowires on surface-enhanced Raman scattering.
K. Daoudi, M. Gaidi, H. Alawadhi, S. Columbus, D. Zhang, A. Allagui, M. Shameer and A. Taieb,
Nanotechnology 31 (2020) 255706.

35) Microstructure and electrical transport mechanisms of the Ca-doped LaMnO3 films grown on MgO substrate.
K. Daoudi, S El-Helali, Z Othmen, BM Suleiman, T. Tsuchiya,
Journal of Materiomics 6 (2020) 17-23.

36) Effects of Mn_3O_4 precipitates on the vibrational properties of epitaxial Ca-doped $LaMnO_3$ films

K Daoudi, H Alawadhi, S El Helali, M Boudard, Z Othmen, M Gaidi, M. Oueslati, T. Tsuchiya, *Journal of Physics D: Applied Physics, 50, 395305 (2017).*

37) Electrical transport in epitaxial $La_{0.7}Ca_{0.3}MnO_3$ thin films
S. El Helali, K. Daoudi, M. Oumezzine, M. Oueslati,
Physica B, 506, 12 (2017).

38) Spin transitions in $La_{0.7}Ba_{0.3}CoO_3$ thin films revealed by combining Raman spectroscopy and X-ray diffraction
Z. Othmen, O. Copie. K. Daoudi, M. Boudard, P. Gemeiner, M. Oueslati, B. Dkhil
J. Appl. Phys. 120, 015308 (2016).

39) Transport mechanism through metal-cobaltite interfaces
C. Acha, A. Schulman, M. Boudard, K. Daoudi, and T. Tsuchiya,
Applied Physics Letters 109, 011603 (2016).

40) Fe-doping effect on the photoelectrochemical properties enhancement of ZnO films
M. Salem, S. Akir, T. Ghrib, K. Daoudi, M. Gaidi
Journal of Alloys and Compounds 685, 107 (2016).

41) Strain dependence of the physical properties of epitaxial $La_{0.7}Ca_{0.3}MnO_3$ thin films grown on $LaAlO_3$ substrates
S. El Helali, K. Daoudi, M. Boudard, A. Schulman, H. Roussel, M. Oumezzine, M. Oueslati,
Journal of Alloys and Compounds, 655, 327 (2016).

42) Metal-Organic Deposition of Epitaxial $La_{0.7}Sr_{0.3}CoO_3$ Thin Films on $LaAlO_3$ Substrates
K. Daoudi, Z. Othmen, S. El Helali, M. Oueslati, and T. Tsuchiya
Crystal Structure Theory and Applications, 4, 1 (2015).

43) Structural, electrical and magnetic properties of epitaxial $La_{0.7}Sr_{0.3}CoO_3$ thin films grown on $SrTiO_3$ and $LaAlO_3$ substrates
Z. Othmen, A. Schulman, K. Daoudi, M. Boudard, C. Acha, H. Roussel, M. Oueslati, and T. Tsuchiya
Appl. Surf. Sci. 306, 60 (2014).

44) Effects of substrate-induced-strain on the structural and transport properties of $La_{0.7}Ca_{0.3}MnO_3$ thin films
S. El Helali, K. Daoudi, A. Fouzri, M. Oumezzine, M. Oueslati, and T. Tsuchiya,
Applied Physics A 108, 379 (2012).

45) Epitaxial growth of $La_{0.7}Sr_{0.3}CoO_3$ thin films on $SrTiO_3$ substrates by metal–organic deposition
K. Daoudi, T. Tsuchiya, T. Nakajima, A. Fouzri, and M. Oueslati,
Journal of Alloys and Compounds, 506, 483 (2010).

46) Strain Effect on the Electrical and Magnetic Properties of $La_{0.7}Ba_{0.3}MnO_3$ Thin Films Grown by Metal-Organic Deposition
K. Daoudi, M. Oueslati, T. Tsuchiya, T. Nakajima, and K. Kawaguchi
Journal of Superconductivity and Novel Magnetism 23, 1355 (2010).

47) Epitaxial growth of LSMO film prepared by excimer laser-assisted metal organic deposition (ELAMOD)
T. Tsuchiya, T. Nakajima, K. Daoudi, and T. Kumagai
Key Engineering Materials 388, 133 (2009).

48) Growth and characterization of epitaxial $La_{0.7}Ca_{0.3}MnO_3$ thin films by metal-organic deposition on $(LaAlO_3)_{0.3}$–$(SrAlTaO_6)_{0.7}$ substrates
K. Daoudi, T. Tsuchiya, and T. Kumagai
Thin Solid Films 416, 6325 (2008).

49) Preparation of epitaxial $La_{0.7}Ba_{0.3}MnO_3$ thin films on $SrTiO_3$ substrates by excimer laser-assisted metal organic deposition
K. Daoudi, T. Tsuchiya, T. Nakajima, T. Kumagai
Appl. Surf. Sci. 254, 1283 (2007).

50) Microstructural evolution and electrical properties of the $La_{0.7}Ca_{0.3}MnO_3$ thin films grown on $SrTiO_3$ substrates by excimer-laser assisted metal-organic deposition
K. Daoudi, T. Tsuchiya, and T. Kumagai
Applied Physics A 88, 639 (2007).

51) Epitaxial growth of $La_{0.7}Ba_{0.3}MnO_3$ thin films on $SrTiO_3$ and $LaAlO_3$ substrates by metal-organic deposition process
K. Daoudi, T. Tsuchiya, T. Nakajima, I Yamaguchi, T. Manabe, and T. Kumagai,
Japanese Journal of Applied Physics 46, 2530 (2007).

52) Pulsed-laser crystallization and epitaxial growth of metal-organic films of Ca-doped $LaMnO_3$ on STO and LSAT substrates
K. Daoudi, T. Tsuchiya, and T. Kumagai
Applied Surface Science 253, 6527 (2007).

53) Preparation of the $La_{0.8}Sr_{0.2}MnO_3$ films on STO and LAO substrates by excimer laser metal organic deposition using the KrF laser
T. Tsuchiya, K. Daoudi, T. Manabe, I. Yamaguchi and T. Kumagai
Applied Surface Science 253, 6504 (2007).

54) Epitaxial A-Site Ordered Perovskite Manganite $SmBaMn_2O_6$ Film on $SrTiO_3$ (001): Fabrication, Structure, and Physical Property
T. Nakajima, T. Tsuchiya, K. Daoudi, M. Ichihara, Y. Ueda, and T. Kumagai
Chem. Mater. 19, 5355 (2007).

55) Structural and physical property of A-site ordered perovskite manganite $LaBaMn_2O_6$ thin film on $SrTiO_3$ (001)
T. Nakajima, T. Tsuchiya, K. Daoudi, Y. Uedab, T. Kumagai
Materials Science and Engineering B 144, 104 (2007).

56) Electrical properties of the epitaxial $La_{1-x-y}Sr_xMnO_3$ films grown by excimer laser-assisted metal organic deposition
T. Tsuchiya, T. Nakajima, K. Daoudi, T. Kumagai

Materials Science and Engineering B 144, 89 (2007).

57) Transmission electron microscopy (TEM) studies of the epitaxial and polycrystalline tin oxide films prepared by the excimer laser-assisted metal organic deposition
T. Tsuchiya, K. Daoudi, A. Watanabe, T. Kumagai, and S. Mizuta
Journal of Physics: Conference Series 59, 224 (2007).

58) Substrate effect on the temperature coefficient of resistance of $La_{0.7}Ca_{0.3}MnO_3$ thin films prepared by metal organic deposition
K. Daoudi, T. Tsuchiya, I. Yamaguchi, T. Manabe, A. Watanabe, S. Mizuta and T. Kumagai
Journal of Electroceramics 16, 527 (2006).

59) Microstructural and electrical properties of $La_{0.7}Ca_{0.3}MnO_3$ thin films grown on $SrTiO_3$ and $LaAlO_3$ substrates using metal organic deposition
K. Daoudi, T. Tsuchiya, I. Yamaguchi, T. Manabe, S. Mizuta and T. Kumagai,
Journal of Applied Physics, 98, 013507 (2005).

60) Electrical Properties of $La_{0.7}Ca_{0.3}MnO_3$Thin Films Obtained by Metal-Organic Deposition (MOD) using Excimer Laser and Thermal Annealing
K. Daoudi, T. Tsuchiya, S. Mizuta, I. Yamaguchi, T. Manabe, and T. Kumagai
Japanese Journal of Applied Physics 44, 5129 (2005).

61) Epitaxial growth of $La_{0.7}Ca_{0.3}MnO_3$ thin films by KrF excimer laser assisted metal organic deposition process
K. Daoudi, T. Tsuchiya, I. Yamaguchi, T. Manabe, S. Mizuta, T. Kumagai
Applied Surface Science 247, 89 (2005).

62) Preparation of tin oxide films on various substrates by excimer laser metal organic deposition
T. Tsuchiya, K. Daoudi, I. Yamaguchi, T. Manabe, T. Kumagai and S. Mizuta,
Applied Surface Science 247, 145 (2005).

63) Large temperature coefficient of resistance in $La_{0.7}Ca_{0.3}MnO_3$ thin films obtained by metal organic deposition process
K. Daoudi, T. Tsuchiya, S. Mizuta, I. Yamaguchi, T. Manabe, and T. Kumagai
Japanese Journal of Applied Physics 43, L1054 (2004).

64) Densification of In_2O_3:Sn multilayered films elaborated by the dip-coating sol-gel route
K. Daoudi, B. Canut, M. G. Blanchin, C. S. Sandu, V.S. Teodorescu and J.A. Roger
Thin Solid Films 445, 20 (2003).

65) ITO spin coated porous silicon structures
K. Daoudi, C.S. Sandu, A. Moadhen, C. Ghica, B. Canut, V.S. Teodorescu, M.G. Blanchin, J.A. Roger, M. Oueslati and B. Bessais
Materials Science and Engineering B 101, 262 (2003).

66) Photoluminescence and structural analysis of terbium doped porous silicon
A. Moadhen, H. Elhouichet, M. Ferid, K. Daoudi, B. Canut, C.S. Sandu, M. Oueslati and J.A. Roger
Phys. Stat. Solidi (a) 197, 360 (2003).

67) Rapid thermal annealing procedure for densification of sol-gel indium tin oxide thin films
K. Daoudi, C. S. Sandu, V.S. Teodorescu, C. Ghica, B. Canut, M. G. Blanchin, J. A. Roger, M. Oueslati and B. Bessais
Crystal Engineering 5, 187 (2002).

68) Tin-doped indium oxide thin films deposited by Sol-Gel Dip Coating technique
K. Daoudi, B. Canut, M. G. Blanchin, C. S. Sandu, V.S. Teodorescu and J.A. Roger
Materials Science and Engineering: C 21, 309 (2002).

69) Radiation-induced densification of sol–gel SnO_2:Sb
B. Canut, V. Teodorescu, J.A. Roger, M.G. Blanchin, K. Daoudi, C. Sandu,
Nuclear Instruments and Methods in Physics Research B 191, 783 (2002).

70) Vapour-etching-based porous silicon: a new approach
M. Saadoun, N. Mliki, H. Kaabi, K. Daoudi, B. Bessais, H. Ezzaouia, R. Bennaceur
Thin Solid Films 405, 29 (2002).

71) Photoluminescence properties of porous silicon obtained by vapor etching process
K. Daoudi, M. Saadoun, B. Bessais, H. Ezzaouia, M. Oueslati
Phys. Chem. News 4, 33 (2001).

72) Morphological aspects of porous silicon prepared by a non-conventional technique
H. Kaabi, N. Mliki, M. Saadoun, K. Daoudi, B. Bessais, H. Ezzaouia, B. Yangui
Phys. Chem. News 4, 38 (2001).

B)Book Chapters

1) Fabrication of magnetic nanosystems for antimicrobial coatings
Jannat Hammouche, Krithikadevi Ramachandran, Kais Daoudi, Mounir Gaidi
Antimicrobial Nanosystems, Elseveir, 1/1/2023, pages: 327-351

2) Functional magnetic nanomaterials with enhanced antimicrobial activity
G Raam Dheep, Krithikadevi Ramachandran, Mohammed Shameer, Mathan Natarajamoorthy, Mounir Gaidi, Kais Daoudi, Arulmozhi Muthukumarasamy
Antimicrobial Nanosystems, Elseveir, 1/1/2023, pages: 191-211

3) Fabrication of noble metal–based antimicrobial nanosystems
Krithikadevi Ramachandran, Mounir Gaidi, Soumya Columbus, Kais Daoudi, Jannat Hammouche
Antimicrobial Nanosystems, Elseveir, 1/1/2023, pages: 353-375.

4) Antimicrobial nanosystems for environmental remediation applications
Soumya Columbus, Krithikadevi Ramachandran, Mohammed Shameer, Kais Daoudi, Mounir Gaidi
Antimicrobial Nanosystems, Elseveir, 1/1/2023, pages: 417-435

5) Advances of antimicrobial nanosystems and their application in pharmaceuticals

Anitha Jayapalan, Krithikadevi Ramachandran, Siva Chidambaram, Mounir Gaidi, Kais Daoudi Antimicrobial Nanosystems, Elseveir, 1/1/2023, pages: 79-102.

C)Conferences

---------- Recent Conferences ---------

1) Fabrication, physiochemical and optical characterization of SiO2/Ag core–shell nanostructures
Shaikha Albedwawi, Krithikadevi Ramachandran, Soumya Columbus, Kais Daoudi, Mounir Gaidi, SICPAM, 25-27 April 2023, Sharjah, UAE.

2) Semiconductor/plasmonic bicomponent architecture design (TiO2/Ag) for ultra-sensitive SERS detection of textile dye contaminant Rhodamine 6 G
Krithikadevi Ramachandran, Ameni Rebhi, Khaled Trabelsi, Anouar Hajjaji, Bernabé Mari Soucase, Brahim Bessais, Kais Daoudi, Mounir Gaidi, SICPAM, 25-27 April 2023, Sharjah, UAE.

3) Label Free Electrochemical Detection of Bovine Serum Albumin Using Starch-AgNPs and L-Cysteine Modified Glassy Carbon Electrode
Rania Ziad, Abdelaziz Elgamouz, Abdel-Nasser Kawde, Soumya Columbus, Kais Daoudi, Mounir Gaidi, SICPAM, 25-27 April 2023, Sharjah, UAE.

4) Comparative Surface Enhanced Raman scattering properties of flexible copper tapes and glass for detecting environmental pollutants
Mohamed Shameer. P, K. Vijai Anand, Soumya Columbus, Hussain Alawadhi, Kais Daoudi, Mounir Gaidi, K. Govindaraju, SICPAM, 25-27 April 2023, Sharjah, UAE.

5) Tuning properties of gold nanoarrays for effective and rapid sensing of biomarkers using surface-enhanced Raman spectroscopy
Soumya Columbus, Kais Daoudi, Soumya Sheela, Betul Rahman, Hussain Alawadhi, Mounir Gaidi, SICPAM, 25-27 April 2023, Sharjah, UAE.

6) Enhanced photocatalytic activities of silver modified LaCoO3 perovskite nanostructures for degrading cationic and anionic organic dyes
Muhammed Irshad, Soumya Columbus, Javad B. M. Parambath, Krithikadevi Ramachandran, Kais Daoudi, Mounir Gaidi, SICPAM, 25-27 April 2023, Sharjah, UAE.

7) Silicon/Silver nanohybrids based surface-enhanced Raman spectroscopy (SERS) biosensor for ultrasensitive direct detection of deafness mutations in real system
Arwa Al Safadi, Krithikadevi Ramachandran, Abdelaziz Tlili, Kais Daoudi, SICPAM, 25-27 April 2023, Sharjah, UAE.

8) Ultra-sensitive detection of food chemicals using flexible SERS sensor designed with AuNPs on Polycarbonate Substrate
Moza Ali Alnaqbi, Krithikadevi Ramachandran Soumya Columbus, Kais Daoudi, My Ali El Khakani, and Mounir Gaidi, SICPAM, 25-27 April 2023, Sharjah, UAE.

9) Development of highly sensitive Ag-Au bimetallic nanoparticles embedded silicon as excellent SERS sensors for environmental monitoring
Ganna Yehia, Soumya Columbus, Kais Daoudi, Mounir Gaidi, SICPAM, 25-27 April 2023, Sharjah, UAE.

10) Thermal Properties of Backfill Material for Underground Heat Exchange Applications
Bashir M. Suleiman, Daniil Moraitis, Mohamed I. Abdel-Fattah, Kais Daoudi, Atta G. Attaelmanan, Mounir Kaidi1 and Marwan Alzaylaie, SICPAM, 25-27 April 2023, Sharjah, UAE.

---------- Conferences: K Daoudi first author--------

11) K. Daoudi, M. Gaidi, S. Columbus, "Graphene oxide/Silver nanoparticles/Silicon Nanowires composites for Surface-Enhanced Raman Spectroscopy of R6G" International Conference on Materials Engineering and Nanotechnology, ICMEN 2019, 2-5 December 2019.

12) K. Daoudi, S. El Helali, Z. Othmenc, M. Oueslati "**Epitaxial Growth of Mixed Valences Oxides Thin Films: Fabrication, Structural and Physical Properties**", International Conference on Functional Material ICFM2019, 24-28 March 2019, Hammamed Tunisia.

13) K. Daoudi, "**Epitaxial Growth of Mixed Valences Oxides Thin Films: Fabrication, Structural and Physical Properties**", 6th International Conference on Superconductivity and Magnetism "ICSM2018", 29th April to 4th May, 2018 in Antalya, Turkey.

14) K. Daoudi, Z. Othmen, S. El Helali, M. Gaidi, H. Alawadhi, and M. Oueslati, "**Probing minor oxide phase in perovskite oxide thin films using Raman Spectroscopy**", Frontiers in Theoretical and Applied Physics (FTAPS 2017), American University of Sharjah, U.A.E., 22-25 February 2017.

15) K. Daoudi, "**Metal-organic deposition of epitaxial perovskite functional oxide thin films**", The 1st Canada-UAE-Japan International Workshop on: Functional Materials: Synthesis, Characterizations and Applications, UoS, 29-31 January 2017.

16) K. Daoudi, H. Alawadhi, M. Gaidi, "**Raman spectroscopy study of the $La_{0.7}Ca_{0.3}MnO_3$ thin films epitaxially grown on $LaAlO_3$ substrates by metal organic deposition process**" 7th International Conference on Advanced Materials and Research, HONG KONG (January 20-22, 2017)

17) K. Daoudi, Z. Othmen, R. Othmen, A. Maddouri, H. Alawadhi, M. Oueslati, "**Transfer of CVD-grown graphene on top of epitaxial $La_{0.7}Ca_{0.3}MnO_3$/LaAlO3**", The 2016 E-MRS Spring Meeting, 2-5 Mai 2016.

18) Z. Othmen, K. Daoudi, R. Othmen, A. Madouri, B. Dkhil and M. Oueslati, "**Chemical vapour deposited graphene on epitaxial $La_{0.7}Sr_{0.3}CoO_3$ thin films: Co spin states modifications revealed by Raman spectroscopy**", European Material Research Society Spring Meeting 2015, 11-15 May 2015, Lille, France.

19) S. El Helali, K. Daoudi, M. Boudard, M. Oumezzine, and M. Oueslati, "**Structural and magnetoresistive properties of epitaxial $La_{1-x}Ca_xMnO_3$ thin films**" Fourth Tunisian Crystallographic Meeting (TCM4-2014), November 2 – 5 2014, Djerba, Tunisia.

20) Z. Othmen, K. Daoudi, B. Dkhil, and M. Oueslati, "**Strain-induced anomalous Jahn Teller modes in Raman spectrum of the $La_{0.7}Ba_{0.3}CoO_3$ thin film**" Le 11ème Colloque National de Recherche en Physique, 20-23 December 2014, Sousse, Tunisia.

21) S. El Helali, K. Daoudi, M. Boudard, M. Oumezzine, and M. Oueslati, "**Structural and magnetoresistive properties of epitaxial La1-xCaxMnO3 thin films**" Le 11eme Colloque National de Recherche en Physique, 20-23 December 2014, Sousse, Tunisia.

22) Z. Othmen, K. Daoudi, R. Othmen, A. Madouri, B. Dkhil and M. Oueslati, "**Chemical vapour deposited graphene on epitaxial $La_{0.7}Sr_{0.3}CoO_3$ thin films: Co spin states modifications revealed by Raman spectroscopy**" International Conference Nano-TN 2015 Nano-Materials: theory and experiments, 5-7 February 2015 Hammamet – Tunisia.

23) K. Daoudi, S. El Helali, M. Oueslati, T. Tsuchiya, and M. Oumezzine, "**Structural and electrical properties of epitaxial $La_{0.7}Sr_{0.3}CoO_3$ thin films obtained by metal-organic deposition process**", TJASSST'11: Tunisian Japanese Symposium on Science, Society and Technology, NOVEMBER 11th-13th 2011, Hammamet Tunisia.

24) K. Daoudi, M. Oueslati and T. Tsuchiya, **"Epitaxial Growth of $La_{0.7}Ca_{0.3}MnO_3$ thin films using metal organic deposition",** International meeting on materials for electronic applications, IMMEA2009, Hammamet-Tunisia, 8-10 Mai 2009.

25) K. Daoudi, T. Tsuchiya, T Nakajima, and T. Kumagai, **"Preparation of epitaxial $La_{0.7}Ba_{0.3}MnO_3$ thin films on $SrTiO_3$ substrates by excimer laser-assisted metal organic deposition",** EMRS Spring-Meeting, Strasbourg-France, from May 28 to June 1, 2007.

26) K. Daoudi, T. Tsuchiya, T Nakajima, and T. Kumagai**, "Preparation of epitaxial $La_{0.7}Ba_{0.3}MnO_3$ thin films on $SrTiO_3$ substrates by excimer laser-assisted metal organic deposition",** EMRS Spring-Meeting, Strasbourg-France, from May 28 to June 1, 2007.

27) K. Daoudi, T. Tsuchiya, T. Nakajima, I Yamaguchi, T. Manabe, and T. Kumagai, **"TEM study of the $La_{0.7}Ca_{0.3}MnO_3$ thin films grown on $SrTiO_3$ substrate by ELAMOD process: formation mechanism",** Kyoto Conference on Solid State Chemistry, Kyoto, November 14-18, 2006.

28) K. Daoudi, T. Tsuchiya, T. Nakajima, I Yamaguchi, T. Manabe, and T. Kumagai, **"Epitaxial growth of $La_{0.7}Ba_{0.3}MnO_3$ thin films on $SrTiO_3$ and $LaAlO_3$ substrates by metal-organic deposition process"**, International Conference on Solid State Devices and Materials (SSDM 2006), YOKOHAMA, Japan, September 12-15, 2006.

29) K. Daoudi, T. Tsuchiya, and T. Kumagai, **"Pulsed-laser crystallization and epitaxial growth of metal-organic films of Ca- doped $LaMnO_3$ on $SrTiO_3$ substrates"**, 5th International Conference on Photo-Excited Processes and Applications (5th ICPEPA), Charlottesville, Virginia USA, 3-7 September 2006.

30) K. Daoudi, T. Tsuchiya, I. Yamaguchi, T. Manabe, A. Watanabe, S. Mizuta and T. Kumagai, **"Epitaxial growth of $La_{0.7}Ba_{0.3}MnO_3$ thin films on (001) LAO and STO substrates using MOD process"**, The 53rd Spring Meeting of the Japan Society of Applied Physics, Tokyo (Japan), March 22-26, 2006.

31) K. Daoudi, T. Tsuchiya, I Yamaguchi, T. Manabe, S. Mizuta and T. Kumagai, **"Preparation of epitaxial manganite films by excimer-laser MOD process at low temperature for infrared sensors applications"**, 7th AIST International Symposium on Photoreaction Control and Photofunctional Materials (PCPM), Tsukuba (Japan) January 17-19, 2006.

32) K. Daoudi, T. Tsuchiya, I. Yamaguchi, T. Manabe, A. Watanabe, S. Mizuta and T. Kumagai, **"Preparation of epitaxial $La_{0.7}Ca_{0.3}MnO_3$ thin films by excimer-laser metal-organic deposition",** The 1st Asia-Oceania Ceramic Federation (AOCF) Conference, Osaka-Japan September 26-29, 2005.

33) K. Daoudi, T. Tsuchiya, I. Yamaguchi, T. Manabe, A. Watanabe, S. Mizuta and T. Kumagai, **"Epitaxial growth of $La_{0.7}Ca_{0.3}MnO_3$ thin films on (001) LSAT and STO and substrates using excimer-laser metal-organic deposition"**, The 66th Autumn Meeting of the Japan Society of Applied Physics, Tokushima (Japan) September 7-10, 2005.

34) K. Daoudi, T. Tsuchiya, I Yamaguchi, T. Manabe, S. Mizuta and T. Kumagai, **"Substrate effect on the temperature coefficient of resistance of $La_{0.7}Ca_{0.3}MnO_3$ thin films prepared by metal organic deposition"**, 3rd International Conference on Materials for Advanced Technology (ICMAT 2005), Singapore, July 3-8, 2005.

35) K. Daoudi, T. Tsuchiya, I Yamaguchi, T. Manabe, S. Mizuta and T. Kumagai**, "Epitaxial growth of $La_{0.7}Ca_{0.3}MnO_3$ thin films on $SrTiO_3$, $LaAlO_3$ and MgO substrates by metal organic deposition"**,The 52nd Spring Meeting of the Japan Society of Applied Physics, Saitama (Japan) March 29th, 2005.

36) K. Daoudi, T. Tsuchiya, S. Mizuta, I. Yamaguchi, T. Manabe and T. Kumagai, **"High-resolution transmission electron microscopy study of epitaxial $La_{0.7}Ca_{0.3}MnO_3$ thin films prepared by metal organic deposition process"**, The 65th Autumn Meeting of the Japan Society of Applied Physics, Sendai (Japan) September 1-4, 2004.

37) K. Daoudi, T. Tsuchiya, I. Yamaguchi, T. Manabe, T. Kumagai and S. Mizuta, **"Structural and electrical properties of $La_{0.7}Ca_{0.3}MnO_3$ thin films obtained by excimer laser assisted metal organic deposition process"**, International Symposium on Organic and Inorganic Electronic Materials and Related Nanotechnologies (EM-NANO), Niigata, Japan, June 7-10, 2004.

38) K. Daoudi, T. Tsuchiya, I. Yamaguchi, T. Manabe, T. Kumagai and S. Mizuta, **"Epitaxial growth of $La_{0.7}Ca_{0.3}MnO_3$ thin films by KrF excimer laser assisted metal organic deposition process",** Symposium of Laser Interactions in Materials: Nanoscale to Mesoscale - EMRS Spring-Meeting, Strasbourg-France, 24-28 Mai 2004.

39) K. Daoudi, T. Tsuchiya, I. Yamaguchi, T. Manabe, T. Kumagai and S. Mizuta, **"Large temperature coefficient of resistance in $La_{0.7}Ca_{0.3}MnO_3$ thin films obtained by metal organic deposition process"**, 3rd Nanoarchitectonic Workshop, AIST Japan, 3 March 2004.

40) K. Daoudi, B. Canut, J. A. Roger, C.S. Sandu, M. G. Blanchin, V.S. Teodorescu, M. Oueslati and B. Bessais, **"Interest of Rapid Thermal Annealing (RTA) procedure for densification of Sol-Gel Indium Tin Oxide (ITO) thin film"**, Symposium of Crystal Chemistry of Functional Material II, EMRS 2002, Strasbourg -France, 18-21 June 2002.

41) K. Daoudi, A. Moadhen, M. Oueslati, , B. Canut, M. G. Blanchin, J. A. Roger, M. Saadoun, and B. Bessais, **"ITO from sol-gel grown into two differently obtained Porous Silicon: a comparative study of the corresponding nanocomposite"**, Symposium of Micro- and Nano-Structured Semiconductors, EMRS 2002, Strasbourg-France, 18-21 June 2002.

42) K. Daoudi, B. Canut, M. G. Blanchin, B. Bessais, M. Oueslati and J. A. Roger, **"Elaboration and characterization of ITO / Porous Silicon structure used for optoelectronics applications",** Journées Maghrébines des Sciences des Matériaux 2002, Bizerte - Tunisia (25-27 March 2002).

43) K. Daoudi, B. Canut, M.G. Blanchin, M. Oueslati and J. A. Roger, **"Intérêt de la méthode Sol-Gel en vue de la réalisation d'électrodes ITO sur Silicium poreux"**, MADICA 2001, Hammamet 29-31 October 2001.

44) K. Daoudi, B. Canut, M. G. Blanchin, C. S. Sandu, V.S. Teodorescu and J.A. Roger**, "Tin-doped indium oxide thin films deposited by Sol-Gel Dip Coating technique"**, MADICA 2001, Hammamet, 29-31 October 2001.

45) K. Daoudi, M. Saadoun, B. Bessais, H. Ezzaouia, and M. Oueslati, **"Comportement de la photoluminescence dans le silicium poreux préparé par attaque chimique en phase vapeur"**, JMSM2000, Kénitra – Morocco (20-21 September 2000).

46) K. Daoudi, M. Saadoun, B. Bessais, H. Ezzaouia, M. Oueslati, **"Photoluminescence behavior of porous silicon prepared by HNO_3/HF vapour-etching"**, Porous Semiconductors Science and Technology (PSST), Madrid, (12-17 March 2000).