CURRICULUM VITAE

PERSONAL DATA

Name	Imed Ghiloufi
Nationality	Tunisian
Position	Professor
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EDUCATION

Year	Academic Degree	Institution
2019	Habilitation to Direct Research (HDR)	Paul Sabatier University, Toulouse, France
2000	Ph.D. in Plasma Physics	Paul Sabatier University, Toulouse, France
1997	M.S. in Plasma Physics	Paul Sabatier University, Toulouse, France
1996	B.S. in Physics	Sfax University, College of Sciences, Tunisia

WORK EXPERIENCE

Period	Position	Address
2017-present	Professor	Al-Imam Muhammed Ibn Saud University, Faculty of Sciences, Department of Physics, Kingdom of Saudi Arabia
2009- 2017	Associate Professor	Al-Imam Muhammed Ibn Saud University, Faculty of Sciences, Department of Physics, Kingdom of Saudi Arabia
2007-2009	Assistant Professor	Al-Imam Muhammed Ibn Saud University, College of Sciences, Department of Physics, Kingdom of Saudi Arabia
2001-2007	Assistant Professor	Al-Imam Muhammed Ibn Saud University, College of Computer Sciences, Kingdom of Saudi Arabia,

RESEARCH INTERESTS

- Synthesis of nanoparticles by plasma
- Synthesis of solar cell using nanoparticles
- Treatment of solid wastes using thermal plasma
- Water treatment

PUBLICATIONS

1-IH Mejri, K Omri, **I Ghiloufi**, JPB Silva, MJM Gomes, L El Mir, Resistive switching behavior in ZnO: Ca thin films deposited by a pulsed laser deposition technique, Applied Physics A 129 (3), 210 (2023).

2-I AlShunaifi, **I Ghiloufi**, A Albeladi, A Alharbi, Toxic Elements Behavior during Plasma Treatment for Waste Collected from Power Plants, Applied Sciences 12 (13), 6564 (2022).

3-F Ghribi, N Khalifi, S Mrabet, **I Ghiloufi**, Ş Ţălu, LM El Mir, H D da F Filho, R M P B Oliveira, R S Matos, Evaluation of the Structure–Micromorphology Relationship of Co10%–Alx Co-doped Zinc Oxide Nanostructured Thin Films Deposited by Pulsed Laser Using XRD, Arabian Journal for Science and Engineering 47 (6), 7717-7728 (2022).

4- **I. Ghiloufi**, M. S. Albishi, A. A. Alharbi, I. A. AlShunaifi, Plasma Technology for Phosphogypsum Treatment, Energies , 14(18), 5813 (2021).

5- S. Elaissi, I. Alshunaifi, H. Alyousef , **I. Ghiloufi**, Magneto-hydrodynamic simulation of Plasma Torch used for waste treatment, journal of Plasma Physics Reports springer; 47, pages704–714 (2021).

6- I. A. AlShunaifi, S. Elaissi, **I. Ghiloufi**, S. S. Alterary, A. A. Alharbi, Modelling of a Non-Transferred Plasma Torch Used for Nano-Silica Powders Production, Applied Sciences, 11, 9842 (2021).

7- S. Jaballah, Y. Alaskar, I. AlShunaifi, **I. Ghiloufi**, G. Neri, C. Bouzidi, H. Dahman, L. El Mir, Effect of Al and Mg Doping on Reducing Gases Detection of ZnO Nanoparticles, Chemosensors, 9, 300 (2021).

8- S. Jaballah, H. Dahman, **I. Ghiloufi**, G. Neri, L. El Mir, Mg co-doped ZnO nanoparticles and their high hydrogen sensing performances, Journal of Hydrogen Energy; Volume 45, Issue 58, 34268-34280 (2020).

9- L. Chouiref, S. Jaballah, M. Erouel, N. Moutia, W. Hzez, **I. Ghiloufi**, L. El Mir, Development and electrical characterization of screen printed electrode based on ZnO nanoparticles, Journal of Materials Science: Materials in Electronics 31 (2020) 13899–13908.

10- L. Khezami, A. Modwi, **I. Ghiloufi**, K. K. Taha, M. Bououdina, , A. ElJery, L. El Mir, Effect of aluminum loading on structural and morphological characteristics of ZnO nanoparticles for heavy metal ion elimination, Environmental Science and Pollution Research, (2020) 27:3086–3099.

11- **I. Ghiloufi**, J. El Ghoul, A. Modwi, I. Alshunaifi, L. El Mir, Removal of Lead (II) Ion from Aqueous Solution Using Ga-Doped ZnO and Ca-Doped ZnO Nanopowder, Zeitschrift fur Naturforschung a, 74, 7, (2019), pp. 573-580.

12- **I. Ghiloufi**, Synthesis of nanoporous carbon for fast uptake of Cr(VI) and Ni(II) from aqueous solution, Water Environment Research, 89, 9, (2017), pp. 798-804.
13- S. Al-Mayman, I. AlShunaifi, A. Albeladi, **I. Ghiloufi**, S. Binjuwair, Treatment of fly ash from power plants using thermal plasma, Beilstein J. Nanotechnol. 8, (2017), 1043–1048.
14- J. El Ghoul, **I. Ghiloufi**, , A.S. AL-Hobaib, L. El Mir, Efficiency of polyamide thin-film nanocomposite membrane containing ZnO nanoparticles, Journal of Ovonic Research Vol. 13, No. 3, (2017), p. 83 – 90.
15- L. Khezami, K. K. Taha, E. Amami, **I. Ghiloufi**, L. El Mir, Removal of cadmium (II) from aqueous solution by zinc oxide nanoparticles: kinetic and thermodynamic studies, Desalination and Water treatment, 62 (2017) 1: 346–354.
16- **I. Ghiloufi**, Synthesis of nanoporous carbon for fast uptake of Cr(VI) and Ni(II) from aqueous solution, Water Environment Research, 89 (9), 798-804, (2017).
17- L. Khezami, K. Taha, **I. Ghiloufi**, L. El Mir, Adsorption and photocatalytic degradation of malachite green by vanadium doped zinc oxide nanoparticles, Water Science & Technology, 73, 4 (2016) 881-889.
18- **I. Ghiloufi**, J. El Ghoul, A. Modwi, L. El Mir, Preparation and characterization of Ca-doped zinc oxide nanoparticles for heavy metal removal from aqueous solution. MRS Advances, 1, 53 (2016), pp. 3607-3612.
19- R. Slama, J. El Ghoul, **I. Ghiloufi**, K. Omri, L. El Mir, A. Houas, Synthesis and physico-chemical studies of vanadium doped zinc oxide nanoparticles and its photocatalysis, J Mater Sci: Mater Electron (2016) 27:8146–8153.
20- **I. Ghiloufi**, J. El Ghoul, A. Modwi, L. El Mir, Ga-doped ZnO for adsorption of heavy metals from aqueous solution, Materials Science in Semiconductor Processing, 42 (2016) 102-106.
21- A.S. AL-Hobaib, J. El Ghoul, **I. Ghiloufi,** L. El Mir, Synthesis and characterization of polyamide thin-film nanocomposite membrane reached by aluminum doped ZnO nanoparticles, Materials Science in Semiconductor Processing, 42 (2016) 111–114.
22- J. El Ghoul, **I. Ghiloufi**, L. El Mir, Effect of annealing temperature on the luminescence properties of Zn2SiO4:V nanocomposite, Journal of Luminescence 170 (2016) 288–292.
23- **I. Ghiloufi**, Fast removal of Co2+ and Ni2+ from aqueous solution using partial carbonized nanoporous resin, Curr. World Environ. (2015) 10 (3).
24- **I. Ghiloufi**, A. S. AL-Hobaib, L. El Mir, Partial carbonized nanoporous resin for uptake of lead from aqueous solution, Water Science & Technology, 72, 6 (2015) 974-982.
25- **I. Ghiloufi**, L. El Mir, Preparation and characterization of doped and undoped nanoporous carbon for heavy metal removal from aqueous solution, Phys. Status Solidi C 12, No. 1–2 (2015) 25–29.
26- **I. Ghiloufi**, L. Khezami, L. El Mir, (2014) Preparation and characterization of nanoporous resin for heavy metal removal from aqueous, Journal of Water Supply: Research and Technology—AQUA, 64 (2015) 3; 316-325.
27- **I. Ghiloufi**, L. Khezami, L. El Mir, Nanoporous Activated carbon for fast uptake of heavy metals

from aqueous solution, Desalination and Water treatment, 55 (2015) 4, 935-944.

28- O.M. Lemine, **I. Ghiloufi**, M. Bououdina, L. Khezami, M. M'hamed, A. Taha, Nanocrystalline Ni doped α-Fe2O3 for Adsorption of Metals from Aqueous Solution, Journal of Alloys and Compounds 588 (2014) 592–595.

29- **I. Ghiloufi**, C. Girold, Optical Emission Spectroscopy Measurements and Simulation of Radioelement Volatility During Radioactive Waste Treatment by Plasma, J. Plasma Chemistry and Plasma Processing, (2011) 31:109–125.

30- **I. Ghiloufi**, J. Amouroux, Electrolyses Effects on the Cesium Volatility during Thermal Plasma Vitrification of Radioactive Wastes, J. High Temperature Materials Process, 14, 1, (2010), p. 71-84.

31- **I. Ghiloufi**, Study of 239Pu, 144Ce and 90Sr Behavior During Radioactive Wastes Treatment by Thermal Plasma Technology, J. Plasma Chemistry and Plasma Processing, 29, 4 (2009) 321-331.

32- **I. Ghiloufi**, Simulation of radioelement volatility during the vitrification of radioactive wastes by arc plasma, J. Hazard. Mater. 163 (2009) 136-142.

33- **I. Ghiloufi**, Modeling of Chemical System Vaporization at High Temperatures: Application to the Vitrification of Fly Ashes by Plasma, J. High Temperature Materials Process, 12, n°1, (2008), 1-10.

34- **I. Ghiloufi**, J. M. Baronnet, Simulation of Heavy Metals Volatility during the Vitrification of Fly Ashes by Thermal Plasma, J. High Temperature Materials Process, 10, n°1, (2006), 117-139.

35- I. Ghiloufi, "Experimental Evolution of Radioactive waste treatment by plasma", Journal of King Saud University, Vol. 21, Science (1), pp. (2009)77-83.