CV: KASSMI Khalil

Last Name	Khalil
First Name	KASSMI
Institution	Mohamed Premier University **MPU**, Faculty of Sciences, Dept of Physics, Oujda, **Morocco**
Short CV	

Formation

1987-1991 PhD, Paul Sabatier University (Toulouse**, France**), mention: "Très Honorable". Electronic
1986-1987 Diploma of Advanced Studies (DEA), Paul Sabatier University (Toulouse**, France**), Electronics
1985-1986 Masters of Electronics, Paul Sabatier University (Toulouse, **France**), Electronics
1984-1985 License, Paul Sabatier University (Toulouse, **France**), Electronics
1982-1984 DEUGS, Paul Sabatier University (Toulouse, **France**), Electronics
1981-1982 Baccalaureate, series: Experimental Sciences (D) in Berkane **(Morocco**)

Activities

- **Lecturer-Researcher** at the University of Oujda **MPU** (Morocco) : Electronics, Renewable Energies
- **Coordinator** of the Renewable Energies Research Team, LETSER Laboratory, **MPU**, Oujda, Morocco
- **Vice-President** of the Association Homme et Environnement de Berkane (**AHEB**), Morocco :
  Development of the Oujda Region: Expertise, Study and Support of Projects (Renewable Energies)

Expert

- **Expert- Evaluator, 2019- 2023**, **2023-2026**, National Center for Scientific and Technical Research CNRST, Rabat, Morocco: **Scientific research projects (Africa-Europe), Renewable energies.**
- **Expert- Evaluator** of indexed scientific journals: IEEE Eccess, Solar Energy, Journal of Energy Storage,….

Responsible for development projects in the rural world (International Cooperation)

- Project 2017/29, **2017-2020,** in partnership between University of Oujda **MPU** (Morocco), National Initiative for Human Development INDH (Morocco), AHEB Association (Morocco):
  Innovative solar cookers for the inhabitants of forest areas
- Qualifying training, **2018 - 2019**, 'Energy and Photovoltaic Installations EPI', **35 young migrants**, in partnership between University of Oujda **MPU** (Morocco), AHEB Associations (Morocco) and Asamblea de Cooperación por la Paz ACPP (Spain).
- Belgian Development Agency in Morocco CTB, **2012-2013**, Project MIP/12/10, in partnership between University of Oujda **MPU**, Association for Cooperatio, Development and Culture ACODEC (Oujda):
  Photovoltaic Energy in the rural world
- **Promotion of Renewable Energy in Rural Municipalities of Oujda, 2010 - 2010**, in partnership between University of Oujda **MPU**, UNDP Art Gold Maroc, Wilya of Oujda, Rural Municipality of Issly (Oujda).
- Moroccan-Belgian Cooperation, "**Solar Energy** Project, OUJ 03 activity, **2003-2012**, University Commission for Development CUD, partners: University of Oujda **MPU**, University of Mons (Belgium). Programs P1 and P3: **Application of Photovoltaic Solar energy**.

Responsible of Applied Research Projects (International cooperation: Morocco, Europe, Africa)

- Maroco-Wallon Cooperation, **2023-2027**, Wallonia - Brussels International WBI, project n°3.3, in partnership between University of Oujda **MPU,** University of Mons (Belgium) and Association AHEB**: Design and realisation of an autonomous, flexible photovoltaic solar cooker with battery storage.**
- **Solar Indoor Cooking Systems of the Next Generation SoCoNexGen** project (**2022-2025**) is part of the Long-term Europe Africa Partnership on Renewable Energy LEAP-RE program. LEAP-RE has received funding from the European Union's Horizon 2020 Research and Innovation Program under Grant Agreement 963530. In collaboration with:
  Mohammed Premier Oujda University (UMP) (Morocco), Solar-Institut Jülich (SIJ) (Germany), Ingenieurbüro für Energie- und Umwelttechnik (IBEU) (Germany), Low-tec gGmbH (lowtec) (Germany), Universidade de Évora (UdE) (Portugal), University of Tunis El Manar (UTM) (Tunisia), Renewable Energy Development Center (CDER) (Algeria).

	• Maroco-Wallon Cooperation, 2018-2022, Wallonia - Brussels International WBI, project n ° 4.2, in partnership between University of Oujda **MPU,** University of Mons (Belgium), INDH and Association AHEB**: Innovative Solar Furnaces with solar energy** • Moroccan member in two Tunisian projects, Research / Development within and around PAQ technopoles, Collabora PAQ-collabora (PAR & I-Teck), **2019-2022**: "**Energy and Smart Grid**" project 1, "**COVID-19 tracking**" project 2 • Moroccan-German Scientific Research Cooperation - PMARSIII 2015-64 project, **2016-2019**, in partnership between University of Oujda **MPU,** Solar-Institut Jülich, FH Aachen and Société IBEU, Jülich, Germany: **Water quatlity improvement with a solar desalination system** • Morocco-Tunisian Cooperation Project (11/MT/ 38) for Scientific and Technical Research (**2011-2013**): **Renewable Energies in Rural Communes of Eastern Morocco and Tunisia** • Integrated Action MA/09/205 (**2009-2012**), in partnership between University of Oujda **MPU,** HASSAN II University (Casablanca), Paul Sabatier University in Toulouse (France): **New generation of nanometric photovoltaic cell** • Integrated Actions MA/03/78 **(2006-2009**), in partnership between University of Oujda **MPU,** Paul Sabatier University in Toulouse (France): **Design and production of photovoltaic systems** • Scientific Research Support Program (PROTARS III) (D43 / 06) (**2006-2009**), CNRST, Morocco: **Solar energy sytem**. **Innovation Patents (Renewable Energies) (**Moroccan Office for Industrial and Commercial Property **OMPIC)** • **2018, publication =** MA 41222, **System that generates thermal energy from Photovoltaic Renewable Energy (PV)** http://patent.ompic.ma/publication-server/result-list • **2019, publication =** MA 42573, **Power Regulator equipped with an Energy Management System RPSGE of Autonomous Photovoltaic Energy Installations**. http://patent.ompic.ma/publication-server/result-list • Patent on concentrated thermal cookers (Cocote) : **Concentrated Solar Water Vapor Cooker CSCVE** **accepted July 12, 2023** Inventor : Khalil KASSMI; Klemens SCHWARZER; Hamid CHAYEB; MALEK RACHID **Supervision (**Theses and Habilitations, Systems and Renewable Energies**):** PhD students: **11**, Habilitations: **3** **Recognition trophy (Best research projects: renewable energies): 3 (International Congresses)** **Scientific publications indexed (1992-2020): 3** books, **200** articles, **300** communications
Editor of Books	1. Co-Editor of the book Chapters '**Sustainable Entrepreneurship, Renewable Energy Based Projects, and Digitalization'**, Taylor & Francis Group, LLC, eBook ISBN: 9781003097921, eBook Published **28 December 2020**, 344 Pages. https://doi.org/10.1201/9781003097921 2. Editor of the book Chapters '**Solar Water Heating: Fundamentals and Applications**', Nova Science Publishers, Inc, USA. Published in **January 2021** https://novapublishers.com/shop/solar-water-heating-fundamentals-and-applications/
Chapters (Books)	1. Book Chapters '**Solar Water Heating: Fundamentals and Applications**', Nova Science Publishers, Inc, USA. published in January **2021** : 3 chapters (1, 6 and 9) https://novapublishers.com/shop/solar-water-heating-fundamentals-and-applications/ 2. Book Chapters '**Sustainable Entrepreneurship, Renewable Energy Based Projects, and Digitalization**', Taylor & Francis Group, LLC, Published **28 December 2020**. 3 chapters (10 à and 14). https://doi.org/10.1201/9781003097921 3. Book Chapters '**Handbook of Environmental Materials Management**', Springer Nature Switzerland AG 2019, Springer, Cham. Published in 21 May **2019**. 1 chapiter. https://link.springer.com/referenceworkentry/10.1007/978-3-319-73645-7_115 4. Book Chapters '**Photovoltaic Systems: Design, Performance and Applications**', Nova Science Publishers, Inc, USA. Published in **August 2018**. 1 chapter https://novapublishers.com/shop/210photovoltaic-systems-design-performance-and-applications/

List of relevant publications within the last years	**1.** Noureddine El Moussaoui , Ali Lamkaddem , Mohammed Rhiat, Khalil Kassmi, Rachid Malek, Olivier Deblecker, Najib Bachiri, Power system of DC/DC applications: Case of cooking, Materials Today: Proceedings Volume 72, part 7, 2023, Pages 3392–3397, Elsevier, Science Direct, **2023**. (Scopus) https://doi.org/10.1016/j.matpr.2022.07.442 https://www.sciencedirect.com/science/article/pii/S2214785322051410 **2.** A. LAMKADDEM, N. EL MOUSSAOUI, M. RHIAT, R. MALEK, K. KASSMI, O. DEBLECKER, N. BACHIRI, System for powering autonomous solar cookers by batteries, Scientific African 17 (**2022**) e01349, ISSN 2468-2276, (Scopus). https://doi.org/10.1016/j.sciaf.2022.e01349 https://www.sciencedirect.com/science/article/pii/S2468227622002563?via%3Dihub **3.** N. El Moussaoui, A. Lamkaddem, M. Rhiat, **K. Kassmi**, R. Malek, O. Deblecker, N. Bachiri, **Autonomous power system powered by solar batteries: A case of box oven heating**, **August 2022**, International Journal of Renewable Energy Research (IJRER), Vol.12, No.3, pages 1269-1278, September 2022, ISSN: 1309-0127**.** (Scopus) DOI : https://doi.org/10.20508/ijrer.v12i3.13139.g8512 https://www.ijrer.org/ijrer/index.php/ijrer/article/view/13139/pdf **4.** El Moussaoui, M. Rhiat, A. Lamkaddem, R. Malek, K. Kassmi, K. Schwarzer, H. Chayeb, N. Bachiri, Innovative Solar Pressure Cooker with Parabolic Trough Concentrator using Water Vapor InnovSoPre, International Journal of Renewable Energy Research (IJRER), Vol.12, No.3, pages 1216-1224, **September 2022**, ISSN: 1309-0127. (Scopus) DOI : https://doi.org/10.20508/ijrer.v12i3.13089.g8506 https://www.ijrer.org/ijrer/index.php/ijrer/article/view/13089/pdf **5.** I. Atmane, N. El Moussaoui, K. Kassmi, O. Deblecker, N. Bachiri**, DEVELOPMENT OF AN INNOVATIVE COOKER (HOT PLATE) WITH PHOTOVOLTAIC SOLAR ENERGY**, Journal Of Energy. Volume 36, April **2021**, 102399, https://www.sciencedirect.com/science/article/abs/pii/S2352152X21001535 **6.** Ilias Atmane, Noureddine El Moussaoui, Khalil Kassmi, Olivier Deblecker, Najib Bachiri, **Alternating multi-stage maximum power point tracking controlled parallelled photovoltaic system for 'solar cooker'**, International Journal of Circuit Theory and Applications. **2021**;1-14, © John Wiley & Sons Lt https://onlinelibrary.wiley.com/doi/10.1002/cta.3051 **7.** Noureddine El Moussaoui, Sofian Talbi**, Ilyas Atmane, Khalil Kassmi**, Klemens Schwarzer, Hamid Chayeb, Najib Bachiri **, Feasibility of a new design of a Parabolic Trough Solar Thermal Cooker (PSTC)**, Solar Energy, 201 (**2020**) 866-871. https://www.sciencedirect.com/science/article/abs/pii/S0038092X2030325X **8.** Mustapha Melhaoui, Kamal Hirech, Ali Lamkaddem, Khalil Kassmi, Olivier Deblecker, **Multilevel DC/DC converter architectures for high performance PV system**, J. Electrical Systems 15-2 (**2019**) : 264-275 https://journal.esrgroups.org/jes/papers/15_2_8.pdf Talbi S., Kassmi K., Lamkaddem A., Malek R., **Design and realization of a box type solar cooker with thermal storage dedicated to the rural regions of the oriental district**, J. Mater. Environ. Sci. 9 (4) **(2018)** 1266-1284. https://www.jmaterenvironsci.com/Document/vol9/vol9_N4/138-JMES-2938-Talbi.pdf