

CV



- A) - **Name of the researcher:** Yahia CHERGUI
- Date of Birth: 18/10/1967
- ORCHID ID: <https://orcid.org/0000-0003-3961-028X>

Research

My research field is condensed matter using molecular dynamics, and DL_poly_4 software; where the title of my Magister was the structure of TiO₂SiO₂ using molecular dynamics, and my PhD title was the properties of ZnO using molecular dynamics. My new research field is the soft matter using molecular dynamics method for bacteriophages.

B) - Professional experience

- **Adjunct Instructor:** University of Tebessa, Algeria 1992-1994 and 2009-2011 teaching courses in mechanics, electricity, and didactics.
- **Supervisor:** more than 32 of license students 2009-2020.
- **English Language Tutor:** 1992-1996
- **Business:** personal Para Pharmaceutical Company 1997-2003.
- **Business:** partner in Pharmacy 1997-2000.
- **Business:** personal shop for clothes 1998-2005
- **High School Physics Tutor:** 2008-2012
- **Summer School:** Queen's University of Belfast, United Kingdom 2010.
- **Assistant professor:** Feb.27, 2012 to 27/02/2019, Electrical & Electronics Engineering Institute, M'hamed Bougara University, Boumerdès, Algeria; , Permanent faculty member:, teaching courses in mechanics, electricity, vibrations and waves.
- **Visiting postgraduate Student Researcher:** University of Cardiff, United Kingdom 2015(Jan-Jul).
- **Current Position; Lecurer:** 28/02/2019 till today Electrical & Electronics Engineering Institute, M'hamed Bougara University, Boumerdès, Algeria; Permanent faculty member:, teaching courses in mechanics, electricity, Electromagnetism.
- **Referee:** Journal of Energy (Elsevier), Condensed Matter, Material Research Express (IOP), ACS, and Advanced Materials.

C) – Education

- **Bachelor:** 1986, Science, Fares Tahar High School, Tebessa, Algeria
- **Diplome of Higher Education:** 1986-1991, Solid Physics, Badji Mokhtar *University, Annaba, Algeria*
- **Magister:** Physics, condensed matter surfaces & interfaces, Badji Mokhtar *University, Annaba, Algeria*, 2008.
- **PhD:** 2008-2019 Badji Mokhtar *University Annaba Algeria*, Feb.28, 2019.
- **License:** Law, Badji Mokhtar *University* (fourth year level) 2008

D) – Publications

- 1) - **Y. CHERGUI**, N. Nehaoua and D. E. Mekki. The structural properties of PbF₂ by Molecular Dynamics *Eur. Phys. J. Appl. Phys.* 51, 20502 (2010). *DIO:10.1051/epjap/2010096*
- 2) - N. Nehaoua, **Y. CHERGUI** and D. E. Mekki. Determination of organic solar cell parameters based on single or multiple pin structures, *Vacuum* 84 (2010) 326-329.
- 3) - N. Nehaoua, **Y. CHERGUI** and D. E. Mekki Tandem and single organic solar cells parameters evaluation from illumination I-V plot *Journal of Electron Devices*, Vol. 11, 2011, pp. 515-520
- 4) - **Y. CHERGUI**, N. Nehaoua and D. E. Mekki *Chapitre Solar Cells / Book 2 (first editin July 2011, InTec)*, ISBN979-953-307-191-5. Comparative study of dye-sensitized solar cell based on ZnO and TiO₂: parameters evaluation, Edited by Prof. Leonid Kosyachenko Yuriy Fedkovych Chernivtsi National University, Optoelectronics Department, Ukraine.
- 5) - N. Nehaoua, **Y. CHERGUI** and D. E. MEKKI *Chapitre Solar Cells / Book 3 (first edition July2011, InTec)*, ISBN 9-953-307-192-2 A New Model for Extracting the Physical Parameters from I-V Curves of Organic and Inorganic Solar Cells Edited by Prof. Leonid Kosyachenko Yuriy Fedkovych Chernivtsi National University
- 6) - **Y. CHERGUI**, N. Nehaoua and D. E. Mekki, Low and wide gap organic solar cells parameters extraction from illumination current-voltage. *Materials Science, Trade Science, MSAIJ*, 8(4), 2012 [174-178]
- 7) - **Y. CHERGUI**, N. Nehaoua et D. E. Mekki, Photovoltaic characteristics of ZnO Nanotube Dye-Sensitized Solar Cells and TiO₂ Nanostructure, *Journal of Material Sciences, Issue 2321-6212*, Page 2347-2278. 2/10/2013
- 8) - **Y. CHERGUI** et al Molecular Dynamics Prediction of Wurtzite ZnO Phase under High and Low Pressures and Temperatures, *2017 Mater. Res. Express* 4 115016.

E) – Presentations

- 1) - **Y. CHERGUI** et al. *School of R-X 2006, University of Annaba*
- 2) - **Y. CHERGUI** et al. *5 TH Arab Congress on Materials Science October 23-25, 2007- Gabes-Tunisia*
- 3) - **Y. CHERGUI** et al. International Conference on Modelling and Simulation (*MS'07 Algiers*) July 02-04, 2007
- 4) - **Y. CHERGUI** Methods of Numerical Simulation used in Physics ; *First Summer School of Physics, University of Mouloud Maammeri, Tizi-Ouzou, Faculty of Sciences*
- 5) - **Y. CHERGUI** et al. Physics of Materials and its Applications, *University of Annaba le 25, 26 et 27 novembre 25, 26, 27, 2007.*
- 6) - **Y. CHERGUI**, N. Nehaoua and D. E. MEKKI CCP5/CECAM “Methods in Molecular Simulation Summer School 2010 “at Queen’s university Belfast, UK.
- 7) - **Y. CHERGUI**, N. Nehaoua and D. E. MEKKI ; Comparative study of dye-sensitized solar cell based on ZnO and TiO₂: parameters evaluation *First International Conference on New Materials and Active Devices (NMCA2011)*, May23rd 25th 2011, University Oum EL-Baouaghi (Algeria).
- 8) - N. Nehaoua, **Y. CHERGUI** et D. E. MEKKI, A New Model for Extracting the Physical Parameters from I-V Curves of Organic and Inorganic Solar Cells, First *International*

Conference on New Materials and Active Devices (NMCA2011). May 23rd -25th 2011, University Oum EL-Baouaghi (Algeria)

9) - **Y. CHERGUI**, N. Nehaoua and D. E. MEKKI Photovoltaic characteristics of ZnO Nanotube Dye-Sensitized Solar Cells and TiO₂ Nanostructure. *BIAMS'11 Annaba.2012.*

10) - **Y. CHERGUI**, T. Aouaroun, A. Outzergua, and R. CHEMAM. Effect of temperature and pressure on molar volume of ZnO wurtzite phases under extended pressure and temperature a molecular dynamics prediction. International conferneve on Green energy and recycling December 02-03, 2019 Berlin, Germany.

F) - Organisation of International Conferences

- 1) - International Conference on Physics and Networks, June 08-10, 2020, Seoul, South Korea
- 2)- 3rd International Conference On Atomic, Molecular And Optical Physics

G) – Memberships of Scientific Societies

1)- The Athens Institute for Education and Research belonging to Physics Unit.

2)- EMMC ASBL, European Materials Modelling Council, Silversquare Stéphanie Avenue Louise 54, 1050 Brussels
CBE no: 0731 621 312, contact@emmc.eu

H) - Languages

- Arabic (mother tongue) – French (language of studying) - English (language of teaching).

K) Software

- DL_poly_4: code of research.
- Moldy,dft, Lamps, cristal, VASP, dlpoly_classic, and VMD (summer school and tests).

L) Invited Speaker

1) - Quantum Optics 2020; Innovative in Quantum Optics and Quantum Computing, [March 23-24, 2020 London UK.](#)

2) - International Conference on Nanoscience Nanotechnology and Advanced Materials (IC2NM) Hamburg, [Germany 3rd -4th December 2019.](#)

3) - International Institute for Research in Science and Technology (IIRST),(ICOP-19), International Conference on Physics, [Milan, Italy November 19, 2019.](#)

4) - International Magnetism and Magnetic Materials Conference [November 11-12, 2019 Venice, Italy.](#)

5) - Ettore Majorana Foundation and Centre for Science Culture, International Conference Transport Phenomena in Complex Environments [September 2-6, 2019, Erice\(Sicily\) Italy.](#)

6) - International Conference on Green Energy and Recycling [December 02-03, 2019, Berlin, Germany.](#)

7) - Issaac Newton Institute for Mathematical Science 20 Clarkson Road Cambridge CB 3, [OEH, C11C WORKSHOP May 13-17, 2019.](#)

8) - 25th International Congress on Glass (ICG2019), the American Ceramic Society, [June 9-14, 2019, Boston Park Plaza Hotel, Boston, Massachusetts USA.](#)

- 9) - International Conference & Exhibition on Materials & Nanotechnology June10-12, 2019 Rome, Italy.
- 10) - 3rd International Conference on Nanotechnology and Materials Science July 22-24, 2019 Rome Italy.
- 11) - 5th International Conference on Materials Science & Technology Vancouver Canada April 18-19, 2019.
- 12) - Nanotech Forum 2019, July 17-18, 2019, Zurich, Switzerland.
- 13) - Advanced Energy Materials 2019, 21th International Conference on Advanced Energy Materials and Research July 11-12, 2019 Zurich Switzerland.
- 14) - 5th World Congress on Environment Science July15-16, 2019, Las Vegas USA.
- 15) - Integrative Approaches to Protein Folding & Aggregation 11-12 June 2019, Workshop.
- 16) - 5th International Conference on Nanotechnology for Renewable Materials, March18-19, 2019, Singapore City, Singapore.
- 17) - 5th International Conference and Expo on Ceramics and Composite Materials June3-4, 2019 London, UK.
- 18) - 3rd European Conference on Plasma Diagnostics (ECPD), 6-10 May 2019, Lisbon , Portugal.
- 19) - The Galileo Institute for Theoretical Physics Arcetri, Plorence Italy Feb.4-15, 2019.
- 20) - International Conference on New Frontiers in Engineering, Science, Law,Mnagement Humanities and Social Science 2019 INFES-2019, IST-GauhatiUniversity Guwahati India 23th February 2019.
- 21) - 2nd International Conference and Expo on Condensed Matter Physics October 15-17, 2019 Amesterdom Netherland.
- 22) - SPINON, Multifunctional Magnetic Materials Lisbon, 13th August 2018 Portugal.
- 23) - 56th European High Pressure Research Group (EHPRG), 2-7-September 2018 Aveiro Portugal.
- 24) - Fnirs 2018, October 5-8, 2018 TOKYO JAPAN
- 25) - 4th International Conference on Crystallography & Novel Materials, Crystallography Congress 2018 November19-20, 2018 Bucharest Romania.
- 26) - The 17th International Conference on Nanostructures, Nanomaterials and Nanoengineering (ICNN2018) SAPPORO HOKKAIDO JAPAN October26-29, 2018.
- 27) - AERO 2020 Global Congress on Aerospace and Aeronautical Engineering May18-19, 2020 Miami USA.
- 28) - 6th Global Summit & Expo on Laser Optics and Photonics April 13-14, 2020, USA.
- 29) - Pharmaceutical Chemistry 2020, May 18-19, 2020, Singapore.
- 30) - **World Congress on NanoScience, Nanotechnology and Advanced Materials during April 20-21 2020 at Dubai, UAE.**
- 31) - International Conference on Biofuels and Bioenergy July 22-23, 202 London,
- 32) - 3rd international conference on Materials Research Nanotechnology, June 22-24,2019 Osaka Japan (Phronesis Researchers World).
- 33) - International conference on Smart Materials and Structures, Hotel NH Berlin Potsdam Conference Center, Berlin, Germany, March 19 & 20, 2020.3
- 34) - 2nd International Conference & Exhibition on Magnetism & Magnetic Materials December 14-15, 2020 at Lisbon, Portugal.

- 35)** - World Congress & Expo on Physics is to be held during September 16-17, 2020 at Barcelona, Spain.
- 36)** - International Conference on Physics and Networks, June 08-10, 2020, Seoul, South Korea.
- 37)** - 10th Global Nanotechnology Congress and ExpoTheme: Future Challenges and Advanced Innovations in Nanotechnology, nano-2020, November 23-24, 2020 Frankfurt Germany.
- 38)** - Euro conference on Catalysis & Chemical Engineering Advancements, March 16-17, 2020 Rome Italy.
- 39)** - 21th Congress on Materials Science & Engineering June 22-23, 2020, Rome Italy.
- 40)** - ELOS 2020 on September 24-25, 2020 held at Paris, France.