

CURRICULUM VITAE

PERSONAL DATA

Name	Lotfi Hedi Khezami
Nationality	Tunisian
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EDUCATION

Year	Academic Degree	Institution
February 2005	PhD Chemistry	University of Technology of Compiègne, France
October 2000	Master Chemistry	University of Technology of Compiègne, France
June 1998	BsC Chemistry	National school of engineers of Gabes (ENIG), Tunisia.

WORK EXPERIENCE

Period	Position	Address
Since May 2019	Associate Professor	Department of Chemistry, College of Science, Imam Muhammad Ibn Saud Islamic University
Aug 2006-April 2019	Assistant Professor	Department of Chemistry, College of Science, Imam Muhammad Ibn Saud Islamic University
Sept 2003- July 2006	Teaching Assistant (ATER)	University of Technology of Compiègne, France

RESEARCH INTERESTS

I am passionate about exploring ways to manage and preserve our environment. I am particularly interested in wastewater and air treatment, nanoscience, solar cells, and innovative techniques such as osmotic dehydration and pulsed electric field for drying and conserving food. I also specialize in removing heavy metals, dyes, and phenolic compounds to promote a cleaner and safer world.

PUBLICATIONS

1. Khalid Althumayri, Ahlem Guesmi, Wesam Abd El-Fattah, **Lotfi Khezami**, Taoufik Soltani, Naoufel Ben Hamadi, and Ahmed Shahat, (2023), Effective Adsorption and Removal of Doxorubicin from Aqueous Solutions Using Mesoporous Silica Nanospheres: Box–Behnken Design Optimization and Adsorption Performance Evaluation, ACS Omega, <https://doi.org/10.1021/acsomega.3c00829>
2. Mary, B.C.J., Vijaya, J.J., Bououdina, M., L. John Kennedy, **L. Khezami** & A. Modwi , (2023), Adsorption ability of aqueous lead (II) by NiFe₂O₄ and 2D- rGO decorated NiFe₂O₄ nanocomposite. J Mater Sci: Mater Electron 34, 845. <https://doi.org/10.1007/s10854-023-10237-9>
3. **Khezami, L.**; Modwi, A.; Taha, K.K.; Bououdina, M.; Ben Hamadi, N.; Assadi, A.A., (2023), Mesoporous Zr-G-C3N4 Sorbent as an Exceptional Cu (II) Ion Adsorbent in Aquatic Solution: Equilibrium, Kinetics, and Mechanisms Study. *Water*, 15, 1202. <https://doi.org/10.3390/w15061202>
4. Modwi, A.; Idriss, H.; **Khezami, L.**; Albadri, A.; Ismail, M.; Assadi, A.A.; Nguyen-Tri, P., (2023), Stripping of Cu Ion from Aquatic Media by Means of MgY2O4@g-C3N4 Nanomaterials. *Water*, 15, 1188. <https://doi.org/10.3390/w15061188>.
5. Assadi, A.A.; Baaloudj, O.; **Khezami, L.**; Ben Hamadi, N.; Mouni, L.; Assadi, A.A.; Ghorbal, A., (2023), An Overview of Recent Developments in Improving the Photocatalytic Activity of TiO₂-Based Materials for the Treatment of Indoor Air and Bacterial Inactivation. *Materials*, 16, 2246. <https://doi.org/10.3390/ma16062246>
6. Jemai, S.; **Khezami, L.**; Gueddana, K.; Trabelsi, K.; Hajjaji, A.; Amlouk, M.; Soucase, B.M.; Bessais, B.; Rtimi, S. (2023), Impact of Annealing on ZrO₂ Nanotubes for Photocatalytic Application. *Catalysts*, 13, 558. <https://doi.org/10.3390/catal13030558>
7. A. Modwi, Hajo Idriss, **Lotfi Khezami**, Abuzar Albadri, Mokhtar Ismail, Aymen Amine Assadi, Phuong Nguyen-Tri, (2023), Ba²⁺ removal from aquatic medium via TiY2O5@g-C3N4 nanocomposites, Diamond and Related Materials, 135, 109830. <https://doi.org/10.1016/j.diamond.2023.109830>.
8. Abdelbasset Bessadok-Jemai, **Lotfi Khezami**, A. Modwi, Mohamed Ali Ben Aissa, Salim Mokraoui, Mohamed Bououdina, (2023), Hybrid CaO@MgO@g-C3N4 nanostructure as a cost-effective sorbent for hazardous organic dyes activated by additives, Diamond and Related Materials, 133, 109757, <https://doi.org/10.1016/j.diamond.2023.109757>.
9. Abdouli, B.; **Khezami, L.**; Guesmi, A.; Assadi, A.A.; Rabha, M.B., (2023), Numerical and Experimental Study of the Front Surface Recombination Velocities and Base Widths Effect in Multi-Crystalline Silicon Solar Cell Quantum Efficiency. *Crystals*, 13, 425. <https://doi.org/10.3390/cryst13030425>
10. Modwi, A. Basith, N.M., Ghoniem, M.G., Ismail, M., Ben Aissa, M.A., **Khezami, L.**, Bououdina, M., (2023), Efficient Pb(II) adsorption in aqueous solution by hierarchical 3D/2D TiO₂/CNNS nanocomposite, Materials Science and Engineering: B, 289, 116191, <https://doi.org/10.1016/j.mseb.2022.116191>.
11. Cherif, M.M.; Assadi, I.; **Khezami, L.**; Ben Hamadi, N.; Assadi, A.A.; Elfalleh, W., (2023), Review on Recent Applications of Cold Plasma for Safe and Sustainable Food Production: Principles, Implementation, and Application Limits. *Appl. Sci.*, 13, 2381. <https://doi.org/10.3390/app13042381>.
12. Sassi, S., Trabelsi, K., El Jery, A., Abidi, M., Hajjaji, A., **Khezami, L.**, Karrech, A., Gaidi, M., Soucase, B.M., Bessais, B., (2023), Synergistic effect of CuxOy-NPs/TiO₂-NTs heterostructure on the photodegradation of amido black staining, Optik, 272, 170234. <https://doi.org/10.1016/j.ijleo.2022.170234>. IF 2.84 Q2
13. Kebir, M.; Tahraoui, H.; Chabani, M.; Trari, M.; Noureddine, N.; Assadi, A.A.; Amrane, A.; Ben Hamadi, N.; **Khezami, L.**, (2023), Water Cleaning by a Continuous Fixed-Bed Column for Cr(VI) Eco-Adsorption with Green Adsorbent-Based Biomass: An Experimental Modeling Study. *Processes*, 11, 363. IF <https://doi.org/10.3390/pr11020363>
14. Nacer Belkessa, Youcef Serhane, Abdelkrim Bouzaza, **Lotfi Khezami** & Aymen Amin Assadi, (2023), Gaseous ethylbenzene removal by photocatalytic TiO₂ nanoparticles immobilized on glass fiber tissue under real conditions: evaluation of reactive oxygen species contribution to the photocatalytic process, Environmental Science and Pollution Research, 30, 35745–35756. IF 5.109, Q1 and Q2 <https://doi.org/10.1007/s11356-022-24636-8>
15. Wesam Abd El-Fattah Naoufel Ben Hamadia, Ahlem Guesmia, Faisal K. Algathami, **Lotfi Khezami**, Wided Nouira, (2023), Synthesis and molecular docking and of new 1,2,3-triazole carbohydrates with COVID-19 proteins, 20(2), 238 – 245. [10.2174/1570179419666220414095602](https://doi.org/10.2174/1570179419666220414095602)
16. Zakaria Zabar, Smail Merabet, Abdul Halim Abdullah, **Lotfi Khezami**, Mohamed Bououdina, (2022), Microwave-assisted synthesis of ag-cu co-modified TiO₂ catalyst for efficient photocatalytic oxidation of m-cresol, Environmental Nanotechnology, Monitoring & Management, 18, 100734.
17. Meriem Tekaya, Olfa Dabbaghi, Ahlem Guesmi, Faouzi Attia, Hechmi Chehab, **Lotfi Khezami**, Faisal K. Algathami, Naoufel Ben Hamadi, Mohamed Hammami, Els Prinsen, Beligh Mechri , (2022), Arbuscular mycorrhizas modulate carbohydrate, phenolic compounds and hormonal metabolism to enhance water deficit tolerance of olive trees (*Olea europaea*), Agricultural water management, 274(1), 107947.

18. Mahdi Gassara, Rawia Msalmi, Xinghui Liu, Fredj Hassen, Anna Moliterni, Naoufel Ben Hamadi, Ahlem Guesmi, **Lotfi Khezami**, Taoufik Soltani and Houcine Naili, (2022), A promising 1D Cd-based hybrid perovskite-type for white-light emission with high-color-rendering index, *RSC Advances*, 12(52), 33516-33524. [10.1039/D2RA04676H](https://doi.org/10.1039/D2RA04676H)
19. B Carmel Jeeva Mary, J Judith Vijaya, M Bououdina, **L Khezami**, A Modwi, M Ismail, Stefano Bellucci, (2022), Study of Barium adsorption from aqueous solutions using copper ferrite and copper ferrite/rGO magnetic adsorbents, *Adsorption Science & Technology*, 2022, 3954536.
20. Rasha A. AbuMousa, **Lotfi Khezami**, Mukhtar Ismail, Mohamed Ali Ben Aissa, Abueliz Modw and Mohamed Bououdina (2022), Efficient Mesoporous MgO/g-C₃N₄ for Heavy Metal Uptake: Modeling Process and Adsorption Mechanism, *Nanomaterials*, 12(22), 3945. <https://doi.org/10.3390/nano12223945>
21. Salah Meddah, Mohamed El Hadi Samar, Mohamed Bououdina, **L. Khezami** (2022), Outstanding performance of electro-Fenton / ultra-violet / ultra-sound assisted-persulfate process for the complete degradation of hazardous pollutants in contaminated water, *Process Safety and Environmental Protection*, 165, 739-754.
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23. Brahim Bessais and My Ali El Khakani Faisal K. Algethami, Khaled Trabelsi, Anouar Hajjaji, Mohamed B. Rabha, **Lotfi Khezami**, Mohamed R. Elamin, (2022), Photocatalytic Activity of Silicon Nanowires Decorated with PbS Nanoparticles Deposited by Pulsed Laser Deposition for Efficient Wastewater Treatment, *Materials*, 15(14), 4970.
24. **Lotfi Khezami**, Mohamed Ali Ben Aissa, Abueliz Modwi, Ahlem Guesmi, Faisal K. Algethami, and Mohamed Bououdina, (2022), Efficient removal of organic dyes by Cr-doped ZnO nanoparticles, *Biomass Conversion and Biorefinery*, --, I.F.: 4.987 (Q2). <https://doi.org/10.1007/s13399-022-02952-w>
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26. Guesmi Ahlem, Abdulfattah Wesam, ben Ticha Manel, Algethami K. Faisal, Aouadi Kaiss, Houasf Ammar, **Lotfi Khezami** and Hamadi Ben Naoufel, Mechanochemical Promoted Heterocycles: A Solvent-Free Route to Triazole Carbohydrates as Glycogen Phosphorylase Inhibitors, *Current Organic Synthesis* 2022; 19(8), 930-936. I.F. 2.276 (Q3) <https://dx.doi.org/10.2174/1570179419666220420133644>
27. **Lotfi Khezami**, Mohamed Ali Ben Aissa, Abueliz Modwi, Mukhtar Ismail, Ahlem Guesmi Faisal K. Algethami, Manel Ben Ticha, Aymen Amine Assadi, and Phuong Nguyen-Tri, (2022), Harmonizing the photocatalytic activity of g-C₃N₄ nanosheets by ZrO₂ stuffing: from fabrication to experimental study for the wastewater treatment, *Biochemical Engineering Journal*, 182, 108411. I.F. 3.978 (Q2)
28. Wided Hizi, Hedi Rahmouni, Nima E. Gorji, Ahlem Guesmi, Naoufel Ben Hamadi, **Lotfi Khezami**, Essebti Dhahri, Kamel Khirouni and Malek Gassoumi, (2022), Impact of Sintering Temperature on the Electrical Properties of La_{0.9}Sr_{0.1}MnO₃Manganite, *Catalysts*, 12(340), 1-16. I.F. 4.146 (Q1)
29. Mohammed Kebir, Riadh Bourzami, Nouredine Nasrallah c, Seif El Islam Lebouachera, Fayçal Dergal, Riad Ladji, Mohamed Trari, Hamed Ben Harharah, Atef ElJery, Ahmed Amine Azzaz and **Lotfi Khezami**, (2022), Pharmaceutical pollutants adsorption onto activated carbon : isotherm, kinetic investigations and DFT modeling approaches, *Comptes Rendus Chimie*, 25(52), 9-25. I.F. 3.117 (Q2)
30. A. Modwi, **L. Khezami**, M.G. Ghoniem, P. Nguyen-Tri, O. Baaloudj, A. Guesmi, F.K. Algethami, M. S. Amer5, A. A. Assadi (2022), Superior removal of dyes by mesoporous MgO/g-C₃N₄ fabricated through ultrasound method: Adsorption mechanism and process modeling, *Environmental Research*, 205, 112543. I.F. 6.498 (Q1)
31. Bakheit Mustafa, A. Modwi, Mukhtar Ismail, Suzan Makawi, Tasneem Hussein, Zulfa Abaker, **L. Khezami**, (2022). Adsorption performance and Kinetics study of Pb(II) by RuO₂-ZnO nanocomposite: Construction and Recyclability, *International Journal of Environmental Science and Technology*, 19 (1), 327-340. I.F: 2.86 (Q2)
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34. O. Baaloudj, N. Nasrallah, R. Bouallouche, H. Kenfoud, **L. Khezami**, A. A. Assadi (2022), Highly efficient cefixime removal from water by the sillenite Bi₁₂TiO₂₀: Photocatalytic mechanism and degradation pathway, *Journal of Cleaner Production*, 330, 129934. I.F. 9.297 (Q1).
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36. **L. Khezami**, N. Elamin, A. Modwi, Kamal K. Taha, M. Bououdina, (2021), Mesoporous Sn@TiO₂ nanostructures as excellent adsorbent for Ba ions in aqueous solution, *Ceramics International*, 48 (4), 5805-5813, I.F: 4.527 (Q1).

37. Imen Assadi, Ahlem Guesmi, Oussama Baaloudj, Hichem Zeghioud, Walid Elfalleh, Naoufel Benhammadi, **Lotfi Khezami** & Aymen Amine Assadi (2021), Review on inactivation of airborne viruses using non-thermal plasma technologies: from MS2 to Coronavirus. *Environmental Science and Pollution Research*, I.F.: 4.226 (Q2).
38. Radhika R. Nair, B. Carmel Jeeva Mary, J. Judith Vijaya, A. Mustafa, **L. Khezami**, A. Modwi, M. Ismail, M. Bououdina & O. M. Lemine (2021), Reduced graphene oxide/spinel ferrite nanocomposites as an efficient adsorbent for the removal of Pb (II) from aqueous solution, *Journal of Materials Science: Materials in Electronics*, 32 (24), 28253-28274. I.F: 4.226 (Q2)
39. Mohamed Trari Rachida Bouallouche, Mohammed Kebir, Nouredine Nasrallah, Faouzi Saib, Atef El Jery, **Lotfi Khezami**, (2021), Synthesis, structural, and opto-electrochemical properties of cobalt aluminate type spinel and its use with ZnO for Cr (VI) photoreduction, *Envir. Science and Pol. Research*, --. I.F: 4.226 (Q2)
40. Baaloudj, O.; Nasrallah, N.; Kenfoud, H.; Algethami, F.; Modwi, A.; Guesmi, A.; Assadi, A.A.; **L., Khezami**, (2021), Application of Bi₁₂ZnO₂₀ Sillenite as an Efficient Photocatalyst for Wastewater Treatment: Removal of Both Organic and Inorganic Compounds. *Materials* 2021, 14, 5409. I.F. 3.623 (Q2)
41. **L. Khezami**, P. Nguyen-Tri, W. A. Saoud, A. Bouzaza, A. El Jery, D. D. Nguyen, V. K. Gupta, A. A. Assadi (2021), Recent progress in air treatment with combined photocatalytic/plasma processes: A review, *Journal of Environmental Management*, 299, 113588. I.F. 6.789 (Q1)
42. Ahmed Amine Azzaz, Salah Jellali, Nasser Ben Harharah Hamed, Atef El Jery, **Lotfi Khezami**, Aymen Amine Assadi and Abdeltif Amrane, (2021), Photocatalytic Treatment of Wastewater Containing Simultaneous Organic and Inorganic Pollution: Competition and Operating Parameters Effects, *Catalysts*, 11(7), 855. I.F. 4.146 (Q1)
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47. Abdelbasset Bessadok J, Mohamed Ben Rabha, Salim Mokraoui, **Lotfi Khezami**, (2021), Nanostructure, optical and optoelectronic properties of silver nanoparticle-based chemical etching on monocrystalline silicon for solar cell applications, *Current Nanoscience*, 17(6), 881-85. I.F: 1.933 (Q3)
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52. A. Modwi, K. Taha, **L. Khezami**, M. Bououdina, M. Khairy, O. K. Al-Duaij and S. Talab, (2020) Dependence of the electrical properties of Cu-doped ZnO nanoparticles decorated by Ag atoms, *Zeitschrift für Physikalische Chemie*, 235 (6), 745-767. IF = 2.06 (Q2)
53. M. Achref, A. Bessadok J., **L. Khezami**, S. Mokraoui, M. Ben Rabha, (2020), Effective Journal of Crystal Growth on multi-crystalline silicon using aluminum/ porous silicon nanostructures, *Surfaces and Interfaces*, 18, 100391. I.F. 4.837 (Q1)
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55. **L. Khezami**, A. Modwi, I. Ghiloufi, K. K. Taha, M. Bououdina, A. Eljery, L. El Mir, (2020) Effect of aluminum loading on structural and morphological characteristics of ZnO nanoparticles for heavy metal ion elimination, *Envir. Science and Pol. Research*, 27(3):3086–3099. I.F: 4.226 (Q2)
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60. **L. Khezami**, T. S. Alwqyan, M. Bououdina, B. Al-Najar, M. N. Shaikh, A. Modwi, Kamal K. Taha (2019). Dependence of phase distribution and magnetic properties of milled and annealed ZnO.Fe₂O₃ nanostructures as efficient adsorbents of heavy metals, *Journal of Materials Science-Material Electronics*, 30 (10), 9683-9694. **I.F: 2.22 (Q2)**
61. Mohamed Bououdina T. S, Alwqyan, **L. Khezami**, B Al-Najar, M. N Shaikh, R. Gill, Abueliz Modwi, Kamal Taha, Mohamed Lemine (2019), Fabrication and characterization of nanostructured MgO-Fe₂O₃ composite by mechanical milling as efficient adsorbent of heavy metals, *JALCOM*, 772, pp 1030-1039. **I.F: 4.65 (Q1)**
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64. A. Modwi, **L. Khezami**, KK Taha, (2018) Flower buds like MgO nanoparticles: From characterization to indigo carmine elimination, *Zeitschrift für Naturforschung A - A Journal of Physical Sciences*, 73(11), pp 975-983. **I.F: 2.06 (Q2)**
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