CURRICULUM VITAE

PERSONAL DATA

Name	Lotfi Hedi Khezami
Nationality	Tunisian
Position	Professor
E-Mail	Lhmkhezami@imamu.edu.sa
Phone	+966502091641

EDUCATION

Year	Academic Degree	Institution
1998	Bachelor	*National school of engineers of Gabes (ENIG), Tunisia.*
2000	Master	*University of Technology of Compiegne, UTC, France*
2005	PhD	*University of Technology of Compiegne UTC, France*

WORK EXPERIENCE

Period	Position	Address
Since Dec 2024	Professor	Imam University – **F**aculty of **S**ciences – **D**epartment OF CHEMISTRY
May 2019-Nov 2024	Associate professor	IMAM UNIVERSITY – FACULTY OF SCIENCES – DEPARTMENT OF CHEMISTRY
Aug 2006-April 2019	Assistante Professor	IMAM UNIVERSITY – FACULTY OF SCIENCES – DEPARTMENT OF CHEMISTRY
Sept 2003- July 2006	Assistant professor (ATER)	University of Technology of Compiegne, UTC

RESEARCH INTERESTS

My research is centered at the intersection of physical chemistry, sustainable industrial process engineering, advanced nanotechnology, and environmental remediation. I focus on the rational design and synthesis of innovative functional nanomaterials to address critical global challenges in water treatment, pollution control,

and clean energy conversion. By combining fundamental reaction kinetics and material characterization with process optimization, my work seeks to develop scalable, resource-efficient technologies that minimize industrial waste and enhance overall system efficiency. Driven by a commitment to sustainable engineering practices, my research aims to translate advanced chemical solutions into viable industrial applications that align with global sustainability frameworks and regional initiatives like Saudi Vision 2030.

PUBLICATIONS

Books:

1. **L. Khezami,** Production du charbon actif et son application en traitement des eaux Publisher : *Européen University Editions* (August 10, 2010). **ISBN-10:** 6131521549, **ISBN-13:** 978-6131521546.
2. **L. Khezami,** General Chemistry: Essential concepts of science, by Lotfi Khezami Publisher: Al-Imam Muhammad Ibn Saud Islamic University, King Fahd Library cataloging in publication data, (October 10, 2013). **ISBN-13:** 978-603-505-196-5.

Journal papers

1. Abid Boubakri, Firas Ben Slimen, Syrine Sassi, Mohamed Aziz Hajjaji, Hafedh Dhiflaoui, Wissem Zayani, Amir Ben Rhouma, **Lotfi Khezami**, Abdeltif Amrane, Amine Aymen Assadi, Nabisab Mujawar Mubarak, Anouar Hajjaji, (2026). Surface Modification of Titanium Oxides by Platinum Nanoparticles: Implications for Corrosion and Wear Resistance in Biomedical Devices, Ceramics International, https://doi.org/10.1016/j.ceramint.2026.05.370.
2. M. Dahmani, N. Hezil, **L. Khezami**, & M. Fellah, (2026). Corrosion behavior of a newly designed Ti-25Nb-25Mo alloy for hip prosthesis applications. The International Journal of Advanced Manufacturing Technology . https://doi.org/10.1007/s00170-026-18035-3
3. Dikra Bouras, Fouzia Hamadi, Mamoun Fellah, Mir Waqas Alam, Ahlem Guesmi, **Lotfi Khezami,** (2026). Dual-action nano-agents: Optimizing Mn:Zn Co-doped synergy in Nickel Oxide for rapid photocatalytic dye neutralization and enhanced bacterial suppression, Journal of Environmental Sciences, in-press, https://doi.org/10.1016/j.jes.2026.02.038
4. Gul Fatima, Saba Firdous, Qasim Raza, Muhammad Aamir, Khaled Alsaikhan, **Lotfi Khezami**, Atef El Jery, Malik Alamgir, Muhammad Jamshaid, Sooman Lim, (2026). High surface area Gd/Mn co-doped LaFeO3 CNT photocatalyst with superior solar amoxicillin degradation and recyclability across wide pH range,Surfaces and Interfaces, 89, 109165. https://doi.org/10.1016/j.surfin.2026.109165.
5. Najeh Abbassi, Hajir Wahbi, Jassem Wannassi, Noureddine Mhadhbi, Walid Rekik, Naoufel Ben Hamadi, Ahlem Guesmi, **Lotfi Khezami**, Houcine Barhoumi, Houcine Naïli, (2026). Structural, optical, and electrochemical properties of a copper (II) chloride hybrid for reliable detection of ascorbic acid in biological samples, Journal of Molecular Structure, 1366, 146108, https://doi.org/10.1016/j.molstruc.2026.146108.
6. Mouna Hajltaief, Walid Ben Amara, Abdallah Bouabidi, Saif Ali Kadhim, Hayder Mohsin Ali, **Lotfi Khezami**, Walid Elfalleh, (2026). Numerical analysis of transverse baffle effects on energy and exergy efficiency in an indirect solar dryer, International Communications in Heat and Mass Transfer, 174, 110937, https://doi.org/10.1016/j.icheatmasstransfer.2026.110937.
7. Dhiflaoui, Hafedh, Karim Choubani, Jabeur Ghozlani, Syrine Sassi, Wissem Zayani, Mohamed Aziz Hajjaji, **Lotfi Khezami**, Mohamed Salah, Mounir Gaidi, Mohamed Ben Rabha, and et al. 2026. "PbS-Decorated TiO_2 Nanotubes via SILAR for Enhanced Wear and Corrosion Protection in Technical Coatings" *Crystals* 16, no. 4: 254. https://doi.org/10.3390/cryst16040254
8. Sarra Bougossa, Ahlem Guesmi, Feriel Swayah, Noureddine Mhadhbi, Ali Ben Ahmed, Jeanneau Erwann, Khaled Hamden, Naoufel Ben Hamadi**, Lotfi Khezami**, Antonio Sánchez-Coronilla, Houcine Naïli, (2026). Structural, optical, and biological investigations of a new hybrid compound Bis(1,8-diazabicyclo[5.4.0]undec-7-enium) tetrachloridozincate(II), Journal of Molecular Structure, 1359, 145360, https://doi.org/10.1016/j.molstruc.2026.145360.
9. Amine Djareddir, Dikra Bouras, Mamoun Fellah, Regis Barille, Hind Saidani-Scott, Ahlem Guesmi, **Lotfi Khezami,** (2026). Silicon-enhanced ZnO/CuO nanocomposite films via spray pyrolysis for durable antimicrobial coatings, Chemical Engineering Science, 322, 123123, https://doi.org/10.1016/j.ces.2025.123123.

10. Amira Atamnia, Ferial Krid, Nadira Bellili, Djihane Slimane Ben Ali, Haroun Houicha, Ahlem Guesmi, **Lotfi Khezami** and Mamoun Fellah, (2026). Dose-dependent effects of gamma irradiation on PVC/ spent coffee grounds composites. Journal of Thermoplastic Composite Materials, https://doi.org/10.1177/08927057261450523
11. Intissar Hamdi, Jassem Wannassi, Noureddine Mhadhbi, Ali Ben Ahmed, Jeanneau Erwann, Naoufel Ben Hamadi, Ahlem Guesmi**, Lotfi Khezami**, Houcine Barhoumi, Houcine Naïli, (2026). Non-centrosymmetric hybrid zinc halide crystal with dual NLO and Cu^{2+} sensing functionality, Microchemical Journal, 223, 117298, https://doi.org/10.1016/j.microc.2026.117298.
12. Mohammed Seyf Eddine Bougoffa, Mamoun Fellah, Mohamed Nabil Bachirbey, Sayhia Benchaa, Chahrazed Benouali, Hind Saidani Scott, Ahlem Guesmi, **Lotfi Khezami**, (2026). A Qualitative Correlation Between Microstructure and Tribological Responses of Ni-Based Alloys Under Complex Working Conditions. *JOM* **78**, 1005–1024 (2026). https://doi.org/10.1007/s11837-025-07909-8
13. Rahima Touaitia, Sara Gheraibia, Fehmi Boufahja, Ahmed Ziad Jouini, **Lotfi Khezami,** Takfarinas Idres, (2026). Phytochemical Profiling, Antioxidant, and Broad-Spectrum Antimicrobial Activities of *Origanum ulgare* Essential Oil with Molecular Docking and ADME Insights, ACS Omega, 11(8), 13629−13640. https://doi.org/10.1021/acsomega.5c10975
14. El Khansa Bourenane, Dalila Amokrane, Ahmed Mohammedi, Dikra Bouras, Xiankun Wu, Christian Andreasen, **Lotfi Khezami**, Mamoun Fellah, (2026). A New Chitosan-Based Nanoformulation of *Lavandula dentata* Essential Oil for Sustainable Control of Green Citrus Aphids. ChemistrySelect, 11:e05999. https://doi.org/10.1002/slct.202505999
15. Nabiha Mekki, Hichem Saidi, Abdallah Bouabidi, Saif Ali Kadhim, Farhan Lafta Rashid, Ali M Ashour, **Lotfi Khezami**, (2026). Study and optimization of phase change materials-filled square fins for improving pyramid solar stills: Comprehensive 8E analysis, Process Safety and Environmental Protection, 209, 108626, https://doi.org/10.1016/j.psep.2026.108626
16. Mohand Akli Azzi, Youcef Khelfaoui, Abdelhek Idir, Atmane Djermoune, Abderezzak Mehnana, **Lotfi Khezami** & Mamoun Fellah. (2026). Physicochemical and Mechanical Characterization of Cowrie Shells for Bone Regeneration Applications. *JOM* **78**, 2046–2059. https://doi.org/10.1007/s11837-025-08051-1
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18. Manel Sellam, Dikra Bouras, Mamoun Fellah, Soulef Azizi, Madiha Zerouali, Ahlem Guesmi, **Lotfi Khezami**, (2026), Enhanced solar dye degradation using Ni-doped ZnO and SnO thin films, Solar Energy,304, 114198, https://doi.org/10.1016/j.solener.2025.114198.
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21. Wissem Hallab, Ahlem Guesmi, Noureddine Mhadhbi, **Lotfi Khezami**, Naoufel Ben Hamadi, Jeanneau Erwan, Antonio Sánchez-Coronilla, Houcine Naïli, (2026). Structural, optical, and theoretical investigations of a 2D copper-based perovskite for optoelectronic applications, Journal of Molecular Structure, 1349(1), 143583, https://doi.org/10.1016/j.molstruc.2025.143583.
22. R. Lebbihi, L. Haddad, C. Labiod, A. Guesmi, **L. Khezami** & M. Fellah, (2026). Eco-engineered natural clay: methylene blue adsorption optimized by RSM-ANN. *Int. J. Environ. Sci. Technol.* **23**, 50. https://doi.org/10.1007/s13762-025-06852-0
23. Sarra Bougossa, Naoufel Ben Hamadi, Jassem Wannassi, Noureddine Mhadhbi, Jeanneau Erwann, Ahlem Guesmi, **Lotfi Khezami**, Houcine Barhoumi[c] and Houcine Naïli, (2026). From structure to function: a one-dimensional palladium(II) hybrid for real-sample hydroquinone detection, *RSC Adv.*, 16, 9530-9546. 10.1039/D5RA08631K

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25. Houdaifa Mahmoudi, Mohammed Salah Bennouna, Momoun Fellah, Ahlem Guesmi**, Lotfi Khezami,** (2026). Converting construction waste and low-density polyethylene into composite materials, Case Studies in Construction Materials, 23, e05447, https://doi.org/10.1016/j.cscm.2025.e05447.
26. Dikra Bouras, Mamoun Fellah, Dunya Zeki Mohammed, Regis Barille, Aleksei Obrosov, Gamal A. El-Hiti, Ahlem Guesmi, **Lotfi Khezami,** (2025). Enhanced CO_2 sensing properties of Fe/Al-doped SnO2 thin films: A comprehensive study of structural, optical, and electrical characteristics, Journal of Alloys and Compounds,1034, 181387, https://doi.org/10.1016/j.jallcom.2025.181387.
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28. Rima Manaa, Dikra Bouras, Nour eddine Brihi, Radouane Daira, Abdelkader Mohammedi, Ahlem Guesmi, **Lotfi Khezami,** Mamoun Fellah, (2025). Optimizing spray cycle number for enhanced structural, optical, and electrical properties of CuO thin films, Ceramics International, https://doi.org/10.1016/j.ceramint.2025.10.221.
29. Nour el Houda Ketita, Dikra Bouras, Radouane Daira, Catalin-Daniel Constantinescu, Fatih Bayansal, Ahlem Guesmi, **Lotfi Khezami**, Mamoun Fellah, (2025). Precursor molarity controls copper oxide thin film properties in spray pyrolysis structural, optical and electrical characterization, Ceramics International, https://doi.org/10.1016/j.ceramint.2025.10.168.
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35. Dikra Bouras, Mamoun Fellah, Regis Barille, Gamal A. El-Hiti, Ahlem Guesmi, **Lotfi Khezami**, (2025). Enhancing the mechanical and physical properties of DD3 ceramics with zirconium oxide for industrial and technological applications, Surfaces and Interfaces, 70, 106841, https://doi.org/10.1016/j.surfin.2025.106841.
36. Hafedh Dhiflaoui, Jassem Kammoun, Mohamed Salah, Slah Chayoukhi, Bilel Gassoumi, Hicham Benhayoune, **Lotfi Khezami**, Ahlem Guesmi, Naoufel Ben Hamadi, Anouar Hajjaji, Naoufel Ben Moussa, 2025. Effect of ZnO content on the microstructure, tribological performance, and corrosion resistance of spray-pyrolyzed ZnO/TiO_2 nanocomposites for biomedical applications, Physica B : Condensed Matter, 716, 417739, https://doi.org/10.1016/j.physb.2025.417739.
37. Imen Rim, Naouel Hezil, Mamoun Fellah, Obrosov Aleksei, Gamal A. El-Hiti, Neçar Merah, Ahlem Guesmi, **Lotfi Khezami,** (2025). Surfactants modification of kaolin for enhanced mercury adsorption, Journal of Water Process Engineering,76,108201, https://doi.org/10.1016/j.jwpe.2025.108201.
38. H Khelili, H Tahraoui, A Amrane, C Sedrati, KG Konan, H Atout, AF Belhadj, L Guechi, M Guellal, AA Assadi, W Elfellah, **L Khezami,** M Hjiri, J Zhang, (2025). Gaussian process regression with bootstrap aggregation for real-

time prediction and optimization of methyl red adsorption. Int. J. Environ. Sci. Technol. 22, 15947–15966 https://doi.org/10.1007/s13762-025-06698-6

39. Saad Alrashdi, Shorog Mohammad Alotaiby, Malik Bader Alazzam, Asma Ahmad Nashawi, Lamya Abdullah Al-lehaib, **Lotfi Khezami**, (2025). Rapid and easy access to Biginelli reaction for the synthesis of tetrahydropyrimidine-5-carboxamides in the presence of magnetized BPHCSF nanostructure under mild conditions. Research on Chemical Intermediates. 51, 5837–5853. https://doi.org/10.1007/s11164-025-05715-0
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43. Imran Khan, Xiaocao Fan, Baoji Miao, Salman Khan, Basem Al Alwan, **Lotfi Khezami**, Atef El Jery, Muhammad Yasir, Muhammad Ibrar Khan, Kanwal Iqbal, Anam Iqbal, 2025. Synergy of multicomponent engineered high-entropy NiFeMgMnCo (oxy)hydroxides nanoparticles for simultaneous OER/HER/ORR/MOR, Journal of Alloys and Compounds, 1039, 183024, https://doi.org/10.1016/j.jallcom.2025.183024
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49. **Lotfi Khezami**, N.M. Basith, O.M. Lemine, A. Modwi, M. Bououdina, (2025). Optimizing the physicochemical properties of Fe_2O_3 magnetic nanoparticles by Mn and Co-Mn doping for theranostics, Ceramics International, https://doi.org/10.1016/j.ceramint.2025.05.420.
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