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# CURRICULUM VITAE

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**February 2024:** Promotion in full Professor position

## **professional situation**

- **Professor-researcher:** Department of Matter Sciences, Faculty of Sciences and Technology, University of Khenchela. Since September 2019.

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## **Administrative and scientific responsibilities**

- **2021:** Elected member of the joint committee, Abbes Laghrour Khenchela University.
- **Since September 2016:** Head of the Department of matter Sciences, Faculty of Sciences and Technology, Abbes Laghrour Khenchela University.
- **Since 2016:** Member of the scientific council of the faculty of Sciences and technology, Abbes Laghrour Khenchela University.
- **Since 2016:** Member of the scientific committee of the department of matter Sciences, faculty of Sciences and technology, Abbes Laghrour Khenchela University.
- Member of the assistant professor-B- selection committee (Chemistry Recruitment Committee, academic year 2012/2013, 2015/2016, 2018/2019).
- **2014:** Elected member of the Scientific Committee of the Department of Matter Sciences of the Faculty of Sciences and Technology of Abbes Laghrour Khenchela University.
- **2014:** Elected member of the Disciplinary Council of the Department of Matter Sciences, Faculty of Sciences and Technology, Abbes Laghrour Khenchela University.
- **2012:** Elected member of the Scientific Committee of the Department of Biology, Faculty of Natural and Life Sciences, Hadj Lakhdar University, Batna.

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## **Contributions to research projects**

- Head of PRFU project: *Textural and Structural study of modified local clays and their uses in the elimination of organic and inorganic pollutants within the framework of environmental protection.* B00L01UN400120220002, (2022-2025)
- Head of PRFU Project: *Improvement of the structural, electrochemical and mechanical properties of titanium alloys for total hip prostheses.* B00L01UN400120210001, (2021-2024).

## Scientific productions

- [1] Mamoun Fellah, Naouel Hezil, Nabila Bouchareb, Hamadi Fouzia, Effect of milling time on structural, mechanical and tribological behavior of a newly developed Ti-Ni alloy for biomedical applications, Material today communication (2024) 108201. <https://doi.org/10.1016/j.mtcomm.2024.108201>.
- [2] Nabila Bouchareb, Naouel Hezil, Fouzia Hamadi, Mamoun Fellah, Effect of milling time on structural, mechanical and tribological behavior of a newly developed Ti-Ni alloy for biomedical applications, Materials Today Communications (2024) 38,108201, <https://doi.org/10.1016/j.mtcomm.2024.108201>.
- [3] Bouchareb, N., Fellah Mamoun, Hezil, N. *et al.* Effect of milling time on structural, physical and photocatalytical properties of Ti-Ni alloy for biomedical applications. *Int J Adv Manuf Technol* 131, 3539–3553 (2024). <https://doi.org/10.1007/s00170-024-13207-5>.
- [4] Hamadi Fouzia, Mamoun FELLAH, Hezil Naouel, Bouras Dikra, Laouini Salah Eddine, Alex montagne, Hamiden Abd El-Wahed khalifa, Obrosof Aleksei, Gamal A. El-Hiti, Krishna Kumar Yadav, Effect of milling time on structural, physical and tribological behavior of a newly developed Ti-Nb-Zr alloy for biomedical applications *Advanced Powder Technology* 35(01)(2024) . <https://doi.org/10.1016/j.appt.2023.104306>.
- [5] Fellah, M, Hezil Naouel, Hammadi Fouzia, Abdul Samad M et al. *Effect of Fe content on physical, tribological and photocatalytical properties of Ti-6Al-xFe alloys for biomedical applications*, *Tribology International* (2023). <https://doi.org/10.1016/j.triboint.2023.109146>
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- [7] Farah M, FELLAH M, Bouras B, Hezil N, Becheri A, Regis B, Daoudi H, Montagne A, Tmader A, Hamiden AW K, *Unraveling the role of sintering temperature on physical, structural and tribological characteristics of ball milled Co28Cr6Mo biomaterial based alloy*, *Journal of engineering research* , (2023) <https://doi.org/10.1016/j.jer.2023.10.040>
- [8] Fellah, M., Hezil, N., Bouras, D., Obrosof, A., Abdul Samad, M., Montagne., El Din, S., Weiß, S. 2023. *Structural, Mechanical and Tribological Performance of a nano structured Biomaterial Co-Cr-Mo Alloy Synthesized Via Mechanical Alloying*. *Journal of Materials Research and Technology*. 25:(2023) 2152-2165.
- [9] Fellah, M., Hezil, N., Bouras, D., Montagne, A., Obrosof , A., W. Ibrahim, R., Iqbal, A., El Din, S., Abd El-Wahed Khalifa, H. 2023. *Investigating the effect of milling time on structural, mechanical and tribological properties of a nanostructured hiped alpha alumina for biomaterial applications*. *Arabian Journal of Chemistry*. 16:(10)(2023)105112
- [10] Hezil, N., Aissani, L., Fellah, M., Abdul Samad, M., Obrosof, A., Bokov, O.D, Marchenko, E. 2022. *Structural, and Tribological Properties of Nanostructured  $\alpha + \beta$  Type Titanium Alloys for Total Hip* *J. Mater. Res. Technol.* 19 (2022)3568-3578 DOI: [10.1016/j.jmrt.2022.06.042](https://doi.org/10.1016/j.jmrt.2022.06.042)
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- [12] Mamoun Fellah, Naouel Hezil, Touhami Mohamed Zine, Mohammed Abdul Samad, Aleksei Obrosof, Dmitry O. Bokov, Ekaterina Marchenko, Alex Montagne, Alain IOST, Akram Alhussein;, *Structural, Tribological and Antibacterial Properties of ( + ) based Ti-Alloys for Biomedical Applications*. *Journal of Materials Research and Technology* (2020), doi: <https://doi.org/10.1016/j.jmrt.2020.09.118>.
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- [14] Saoudi Adel., Fellah Mamoun., Hezil Naouel., Larari Djahida., Khamouli Farida., Atouil'Hadi., Bachari Khaldoun., Morozova Julia., Obrosof Aleksei., Abdul Samad Mohammed., *Prediction*

*of mechanical properties of welded steel X70 pipeline using neural network modelling*, International Journal of Pressure Vessels and Piping. 186, 104153 (2020).

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- [17] Fellah Mamoun., Hezil Naouel., Abderahim K., Abdul Samad Mohammed, Montagne Alex, Mejias Alberto, Kossman Stephania, Iost Alain, Chekalkin Timofey, Obrosof Aleksei, Weiß Sabine. *Investigating the Effect of Sintering Temperature on Structural and Tribological Properties of a Nanostructured Ti–20Nb–13Zr Alloy for Biomedical Applications*. In: Li J. et al. (eds) Characterization of Minerals, Metals, and Materials 2020. The Minerals, Metals & Materials Series. Springer, Cham (2020). [https://doi.org/10.1007/978-3-030-36628-5\\_61](https://doi.org/10.1007/978-3-030-36628-5_61)
- [18] Fellah Mamoun, Hezil Naouel, Abdul Samad Mohammed, Djellabi Ridha, Montagne Alex, IOST Alain, Obrosof Aleksei, Weiss Sabine., *Preliminary investigation on the biotribocorrosion behaviour of newly developed nanostructured near  $\beta$ -types titanium based biomedical alloys*, Material Letters, 257, 126755(2019).
- [19] Fellah Mamoun, Hezil Naouel, Abdul Samad Mohammed, Djellabi Ridha, Montagne Alex, Mejias Alberto, Kossman Stephania, Iost Alain, Purnama Agung, Obrosof Aleksei, Weiß Sabine., *Effect of Molybdenum Content on Structural, Mechanical and Tribological Properties of Hot Isostatically Pressed  $\beta$ -Type Titanium Alloys For Orthopedic Applications*, Journal of Materials Engineering and Performance, 28, 5988–5999 (2019).
- [20] Fellah, M., Hezil, N., Mohamed Zine, T., Obrosof, A., Weiß, S., Kashkarov, E.B., Lider, A.M., Montagne, A., Iost, A., *Enhanced Structural and Tribological Performance of Nanostructured Ti–15Nb Alloy for Biomedical Applications*, Results in Physics (2019), doi:<https://doi.org/10.1016/j.rinp.2019.102767>.
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- [22] Naouel Hezil, Mamoun Fellah, Ridha Djellabi, Touhami Mohammed Zine, Alex Montagne, Alain Iost, Aleksei Obrosof, Sabine Weiß. *Assessment of the hydrophilic- hydrophobic balance of Alumina oxidized at different temperatures via  $H_2O$  and  $C_4H_{10}$  vapor adsorption”* Defect and Diffusion Forum, 397, 161-168(2019).
- [23] Mamoun Fellah, Naouel Hezil, Ridha Djellabi, Mohammed Abdul Samad, Touhami Mohammed Zine, Alex Montagne, Alain Iost, Aleksei Obrosof, Sabine Weiß. *“Rapid and Enhanced Recovery of Poly-dispersed Nonionic Surfactant (TX-100) From Organic Mediums Using Dehydrated and Rehydrated Kaolin”* Applied Clay Sciences, 177 (2019) 43-50. <https://www.journals.elsevier.com/applied-clay-science>
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