سيـــــــرة ذاتيـــــــــة

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شهـــــــادة

- سبتمبر 2019: التأهيل الجامعي: الكيمياء. جامعة خنشلة، الجزائر

الوضـــــع المهـــــني

- استاذ محاضر-ا- "أ" ***قسم علوم المادة،*** كلية العلوم والتكنولوجيا جامعة خنشلة. منذ سبتمبر 2019.

المسؤوليات الإدارية والعلمية

- 2021: عضو منتخب في اللجنة المتساوية الاعضاء- جامعة عباس لغرور خنشلة.
- منذ سبتمبر 2016: رئيس قسم علوم المادة كلية العلوم والتكنولوجيا

جامعة عباس لغرور خنشلة.

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- منذ عام 2016: عضو اللجنة العلمية لقسم علوم المادة كلية العلوم والتكنولوجيا جامعة عباس لغرور خنشلة.
- عضو لجنة اختيار الأستاذ المساعد-ب (لجنة التوظيف في الكيمياء للعام الجامعي 2012/2013، 2015/2016، 2018/2019.
- 2014: عضو منتخب باللجنة العلمية لقسم علوم المادة بكلية العلوم والتكنولوجيا بجامعة عباس لغرور خنشلة.
- 2014: عضو منتخب في المجلس التأديبي لقسم علوم المادة كلية العلوم والتكنولوجيا جامعة عباس لغرور خنشلة.
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مجـــــــال الخبـــــــرة

- الامتزاز الساكن والديناميكي
- نمذجة الامتزاز وتفسيره
- تحديد المساحة السطحية المحددة للمواد الصلبة (طريقة BET)
- المعالجة الحرارية للمواد (ATD، ATG).
- الاختبارات القبلية والاحتكاك والتآكل وما إلى ذلك.
- التقييم المدمر والمجهري.

- تحليل حيود الأشعة السينية.
- التحليل عن طريق المجهر الإلكتروني الماسح.
- توصيف وتحليل وتفسير نتائج السلوك الكهروكيميائي للمواد الحيوية؛
- طرق تحليل وتوصيف الأسطح والواجهات للمواد الحيوية؛
- السلوك الميكانيكي (الخشونة، الالتصاق، التآكل) للطلاءات المعدنية والسيراميك والمواد الحيوية؛
- التحليل الفيزيائي والكيميائي للمواد.
- طرق الأكسدة المتقدمة (الفنتون، التحفيز الضوئي، فوتو فنتون.....)

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التظاهرات الدولية

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7. جلسة – رئاسة الندوة الدولية السادسة للكيمياء (CIC-6) جامعة باتنة 122 – 24 نوفمبر 2022.
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9. الرئيس: المؤتمر الوطني الأول لعلوم وهندسة المواد MSE'22، جامعة خنشلة، 29-28 يونيو 2022.
10. عضو اللجنة العلمية: الأيام الدراسية الوطنية الأولى للكيمياء النظرية وتطبيقاتها (JCTA1-21)، جامعة خنشلة، 15-13 ديسمبر 2021
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Diplome

- **Septembre 2019:** Diplôme d'habilitation spécialité: Chimie. Université Khenchela, Algérie

Situation professionnelle

- **Maître de conférences « A » :** Département Sciences de la Matière, Faculté des Sciences et de la Technologie, Université de Khenchela. Depuis 04 Septembre 2019.

Responsabilités Administratives et scientifiques

- **2021** : Membre élu de la commission paritaire, Université Abbes Laghrour Khenchela.
- **Depuis septembre 2016** : Chef du département des sciences de la matière, Faculté des sciences et technologies, Université Abbes Laghrour Khenchela.
- **Depuis 2016** : Membre du conseil scientifique de la faculté des sciences et de la technologie, université Abbes Laghrour Khenchela.
- **Depuis 2016** : Membre du comité scientifique du département des sciences de la matière, faculté des sciences et de la technologie, université Abbes Laghrour Khenchela.
- Membre du comité de sélection de maitre assistant-B- (Commission de recrutement en chimie, année académique 2012/2013, 2015/2016, 2018/2019.
- **2014** : Membre élu du Comité Scientifique du Département des Sciences de la Matière de la Faculté des Sciences et de la Technologie de l'Université Abbes Laghrour Khenchela.
- **2014** : Membre élu du Conseil de Discipline du Département des Sciences de la Matière, Faculté des Sciences et Technologies, Université Abbes Laghrour Khenchela.
- **2012** : Membre élu du Comité Scientifique du Département de Biologie, Faculté des Sciences de la Nature et de la Vie, Université Hadj Lakhdar, Batna.

Domaine de compétences

- Adsorption statique et dynamique
- Modélisation et interprétation de l'adsorption
- Détermination de la surface spécifique des solides (méthode BET)
- Méthodes d'oxydation avancées (photocatalyse, Fenton)
- Traitement thermique des matériaux (ATD, ATG).
- Essais tribologiques, frottement, usure, ...
- Évaluation destructive et microscopie.
- Analyse par diffraction des rayons X.
- Analyse par microscopie électronique à balayage.
- Caractérisations, analyse et interprétation des résultats du comportement électrochimiques des biomatériaux ;
- Méthodes d'analyse et de caractérisation de surfaces et d'interface des biomatériaux ;
- Comportement mécanique (rugosité, adhérence, usure) des revêtements métalliques et céramiques, biomatériaux ;
- Analyse Physico-Chimique des Matériaux.
- Méthodes d'oxydation avancée (Fenton, photocatalyse, Photo-Fenton……)

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HUSSIEN, Alex MONTAGNE, Alberto MEJIAS, Alain IOST, Stephania KOSSMAN, Timofey CHEKALKIN, Aleksei OBROSOV, Sabine WEISS, *Effect of Sintering Temperature on Mechanical and Tribological Behavior of Ti–Ni Alloy for Biomedical Applications*. In: The Minerals, Metals & Materials Society (eds) TMS 2020 149th Annual Meeting & Exhibition Supplemental Proceedings. The Minerals, Metals & Materials Series. Springer, Cham (2020) pp 1701-1710, https://doi.org/10.1007/978-3-030-36296-6_157, Online ISBN 978-3-030-36296-6, Print ISBN 978-3-030-36295-9. **(Springer Scopus).** https://link.springer.com/chapter/10.1007/978-3-030-36296-6_157

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[3] BOUCHAREB Nabila, **HEZIL Naouel**, FELLAH Mmaoun, RIM Imen, Effect of milling time on structural characterization of nanostructured Ti-Ni alloy. International Conference on Material Chemistry and Sustainable Development (CM2D'23). Sétif, Algérie, 2023. https://cmdd.univ-setif.dz/https://cmdd.univ-setif.dz/index.php/poster-program/

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[2] FELLAH Mamoun, **HEZIL Naouel**. BOURAS Dikra, SAOUDI Adel, DAHMANI Marwa. Effet of Fe content on physical, tribological andphotocatalytcal properties of Ti-6Al-xFe alloys for biomedical applications. 2nd national conference on materials sciences and engineering. 12-13 December 2023. Maghnia, Algérie. https://2mse23.wixsite.com/cumag

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[4] **HEZIL Naouel**, FELLAH Mamoun. Effect of Sn Content (at.%) on the structural, mechanical and tribological Properties of Ti-Nb-Sn alloys. 1st national conference on materials sciences and engineering 28-29 Mai .Khenchela, Algérie, 2022. **ISBN: 978-9931-9603-2-4**. http://mse.epizy.com/?i=1

[5] Hammadi Fouzia, **Hezil Naouel**, Fellah Mamoun, Ouanes Mayada, Comparative corrosion behaviour of titanium alloys (Ti-6Al-4V, Ti-6Al-4Fe) for Hip implants applications, 1st national conference on materials sciences and engineering 28-29 Mai .Khenchela, Algérie, 2022. **ISBN: 978-9931-9603-2-4**. http://mse.epizy.com/?i=1

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[7] Dahmani Marwa, **Hezil Naouel**, Benoudia Mohamed Cherif, Fellah Mamoun, The effect of B stabilizing elements on structural, machanical, and electrochemical behaviour of B-type Ti-alloys prepared by MA method for orthepedic applications, 1st national conference on materials sciences and engineering, Khenchela, Algérie ,2022. **ISBN: 978-9931-9603-2-4.** http://mse.epizy.com/?i=1

[8] Dahmani Marwa, **Hezil Naouel**, Fellah Mamoun, Benoudia Mohamed Cherif, Presentation of the process parameters effect on the microstructure and mechanical characteristics of B-type Ti- alloys for biomedical implant application, 1st national conference on materials sciences and engineering, Khenchela, Algérie, 2022. **ISBN: 978-9931-9603-2-4.** http://mse.epizy.com/?i=1

[9] Toualbia Khaled, Fellah Mamoun, **Hezil Naouel**, The effect on milling time on structural and mechanical properties of HIPed B type Ti15Mo for orthepedic applications. 1st national conference on materials sciences and engineering, Khenchela, Algérie, 2022. **ISBN: 978-9931-9603-2-4.** http://mse.epizy.com/?i=1

[10] Chaima Boukhalfa, **Naouel Hezil**, Miyada Ouanes, Mamoun Fellah, Mostefa Baccouch, Aleksei Obrosov and Marwa Dahmani. The effect of surface proprieties on the wear resistance of Ti-6Al-4V biomedical alloy manufactured via mechanical alloying. 1st

national conference on materials sciences and engineering, Khenchela, Algérie, 2022. **ISBN: 978-9931-9603-2-4.** http://mse.epizy.com/?i=1

[11] Chaima Boukhalfa, **Naouel Hezil**, Miyada Ouanes, Mamoun Fellah, Mostefa Baccouch, Aleksei Obrosov and Marwa Dahmani. Structure-property correlation in a Nanostructured Ti-6Al-4V alloy designed for biomedical applications. 1st national conference on materials sciences and engineering, Khenchela, Algérie, 2022. **ISBN: 978-9931-9603-2-4.** http://mse.epizy.com/?i=1

[12] Marwa Dahmani, Mohamed Cherif Benoudia, **Naouel Hezil**, Mamoun Fellah; " New Developments of β and Near β-Type Titanium Alloys Prepared by Mechanical Alloying Method for Biomedical Applications". Colloque sur la Biomécanique et L' Imagerie Médicale (CIBIM 2022) le 12 Mai 2022, Oran, Algeria. https://labab.enp-oran.dz/?Manifestations

[13] **Naouel Hezil**, Mamoun Fellah, Aleksei Obrosov, Alex Montagne. Removal of Cationic and Anionic Surfactants by Kaolinite from Aqueous Medium, 1st National Seminar on Green Chemistry and Natural Products (GCNP'2022, March 14 - 15, -El Oued, Algeria. 2022. https://cgcp.sciencesconf.org/resource/page/id/3

[14] Dahmani Marwa Fellah Mamoun; Benoudia Mohamed Cherif; **Hezil Naouel**. An investigation of the mechanical and microstructural evolution of new generation B-type Ti alloys for biomedical implant applications- a review, the Fisrt National Online Conference on Materials Physics, 09 Juin, Eltaref, Algérie (2022). http://univ-eltarf.dz/fac/fac_st/index.php/98-seminaire-journee-rencontre/175-1ere-conference-nationale-en-ligne-en-physique-des-materiaux-cnlpm-22-eltarf

AUTRES ACTIVITÉS DE RECHERCHE

RESPONSABLE OU MEMBRE D'UN PROJET DE LA RECHERCHE

[1] Chef de projet PRFU : **HEZIL Naouel**: *Etude texturale et Structurale, des argiles locales modifiées et leurs utilisations dans l'élimination de polluants organiques et inorganiques dans le cadre de la protection de l'environnement.* Code de projet B00L01UN400120220002, (2022-2025)

[2] Chef de projet PRFU **HEZIL Naouel:** *Amélioration des propriétés structurales, électrochimiques et mécaniques des alliages de titane pour prothèses totales de la hanche.* PRFU, **B00L01UN400120210001**, 2021-2024.

[3] **Membre au Projet d'équipe de recherche mixte :** Biomatériaux, Synthèse et Tribologie, 2023 .

[4] **Membre au laboratoire de recherche** : Ingénierie et Sciences des Matériaux Avancés (ISMA), Université Abbes Laghrour-Khenchela (2015-2022).

CONVENTIONS

[1] **Membre dans une Convention Cadre (porteur de projet)**; Partenariat: Université Abbes Laghrour-Khenchela et Institut Supérieur des Etudes Technologiques de Kef (Tunisie). Formation, Recherche et Développement Industriel (15/04/2021) (2021-2026)

EXPERTISE, MEMBRE DE COMITÉ DE LECTURE

1. Membre de jury soutenance doctorat LMD en Chimie des Matériaux : **DERARDJA Akram.** Département des sciences de la matière, Université de Abbes LAGHROU Khenchela. 2023
2. Membre de jury soutenance doctorat en sciences en Chimie : **HAMADI Fouzia.** Département Sciences de la matière, Université Badji Mokhtar Annaba. 2023
3. Expertise d'un polycopié de cours : « *Thermodynamique et cinétique Chimique* » par **Dr. Bouakkadia Amel**. L1 Sciences de la matière. Département Sciences de la Matière, Université Abbes Laghrour khenchela. 2023
4. Expertise d'un polycopié de cours : Chimie Minérale» par **Dr. BADAOUI Mohamed Ibrahim**, L2 Chimie. Département de Chimie Université Batna 1. 2023
5. Expertise d'un polycopié de cours : Méthodes d'oxydation avancée» par **Dr. OTHMANE R Khadija**, M2 Chimie. Département de Chimie Université El-Taref. 2023
6. Membre de jury de soutenance doctorat LMD Chimie des matériaux de: **HADJEM Meryem**.. Département sciences de la matière, Université L'arbi BEN MEHIDI- Oum el Bouaghi. 2022
7. Membre de jury soutenance doctorat LMD en Génie des procédés de la candidate : **DJEGHADER Imane.** Département Sciences de la matière, Université Badji Mokhtar Annaba. 2022
8. Membre de jury soutenance doctorat LMD en Chimie du candidat : **BELAID Imad.** Département Sciences de la matière, Université Badji Mokhtar Annaba. 2022
9. Membre de jury soutenance doctorat en sciences en Chimie : **DALI Mounira.** Département Sciences de la matière, Université Badji Mokhtar Annaba. 2021
10. Expertise d'un polycopié de cours *« Chimie organométallique»* par Dr. **Roguai Sabrina.** Master1 Chimie des matériaux. Département Science de la Matière, Université ABBES Laghrour khenchela. 2021
11. Membre de jury Soutenance d'Habilitation Universitaire en Chimie de : **Dr. Bouakkadia Amel.** Département des sciences de la matière, Université de Abbes LAGHROU Khenchela. 2021
12. Membre de jury Soutenance d'Habilitation Universitaire en Chimie de : **Dr. BENMAHDI Fatiha.** Département de Chimie Université Batna 1. 2021
13. Membre de jury soutenance doctorat LMD en chimie et physique de la matière condensée de la candidate : **ARAAR Hala**. Département des sciences de la matière, Université de Abbes LAGHROU Khenchela. 2021
14. Membre de jury soutenance doctorat en sciences en Chimie : **ZINE Mounia.** Département Sciences de la matière, Université Badji Mokhtar Annaba. 2020
15. Expertise du dossier d'Habilitation universitaire en Chimie du candidat : **Dr. Benali Cherif Rim,** Option : Chimie des matériaux**.** Département Sciences de la Matière, Université Abbes Laghrour khenchela. 2020
16. Membre de jury Soutenance d'Habilitation Universitaire en Chimie du candidat : **Dr. Roguai Sabrina.** Département des sciences de la matière, Université de Abbes LAGHROU Khenchela. 2020
17. Expertise d'un polycopié de cours *« Electrochimie »* par **Dr. Samai Salima**. L3 Chimie Fondamentale. Département Sciences de la Matière, Université Abbes Laghrour khenchela. 2020

18. Expertise d'un polycopié de cours : Les méthodes de séparation de phases et chromatographie » par **Dr. Tamersit Sabrina**, L3 Chimie Analytique. Département de Chimie Université Batna 1. 2020
19. Expertise d'un polycopié de cours *« Méthodes d'analyses RMN, Masse »* par **Dr. Lamraoui Hanane**. Master 1 chimie analytique et environnement. Département Sciences de la Matière, Université Abbes Laghrour khenchela. 2020

Activités scientifiques liées aux manifestations

1. Session chair: 1st National conference on materials sciences and engineering, MSE'23, Centre universitaire Maghnia, 12-13 Décembre 2023.
2. Co-président du comité scientifique : 1st National conference on materials sciences and engineering, MSE'23, Centre universitaire Maghnia, 12-13 Décembre 2023.
3. Membre du comité scientifique: The first national symposium on: water, health and environment impact of climate changes, Université Khenchela, 25 Septembre 2023.
4. Membre du comité scientifique : The fisrt international conference on materials science and applications, Université Khenchela, 08-09 Février 2023.
5. Co-président de la conférence : 1st Interational conference on materials sciences and Technology, Université Khenchela, 15-16 Décembre 2022.
6. Membre du comité scientifique : 1st International conference on optoelectronic, materials and renouwable energy (ICOMRE'22), Université El-Oued, 12-13. Décembre 2022.
7. Membre du comité scientifique : The 6th international chemistry symposium (CIC-6) , Université Batna1, 22-24 Novembre 2022.
8. Session –Chair The 6th international chemistry symposium (CIC-6) Université Batna122-24 Novembre 2022.
9. Membre du comité d'organisation : The international workshop on structural resolution by single crystal and powder X-Ray diffraction, Université Khenchela, 6-7 Novembre 2022
10. Présidente: 1st National conference on materials sciences and engineering, MSE'22, Université Khenchela, 28-29 Juin 2022.
11. Membre du comité scientifique : 1ère Journées Nationales d'Etude sur la Chimie Théorique et ses Applications (JCTA1-21), Université Khenchela, 13-15 Décembre 2021
12. Reviewer: 1st international visio- conference on materials science and engineering, Université Khenchela, 17-18 Novembre 2021.

CURRICULUM VITAE

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Business address: Matter Sciences Department, Faculty of Science and Technology, Abbes LAGHROUR University, BP. 1252, 40004, Khenchela.

Diploma

- **September 2019:** habilitation diploma: Chemistry. Khenchela University, Algeria

professional situation

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

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 Science and Technology, Abbes Laghrour Khenchela University.
- **Since 2016**: Member of the scientific council of the faculty of science and technology, Abbes Laghrour Khenchela University.
- **Since 2016**: Member of the scientific committee of the department of matter sciences, faculty of science 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 Science and Technology of Abbes Laghrour Khenchela University.
- **2014**: Elected member of the Disciplinary Council of the Department of Matter Sciences, Faculty of Science 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.

Skills area

- Static and dynamic adsorption
- Adsorption modeling and interpretation
- Determination of the specific surface area of solids (BET method)
- Advanced oxidation methods (photocatalysis, Fenton)
- Heat treatment of materials (ATD, ATG).
- Tribological tests, friction, wear, etc.
- Destructive evaluation and microscopy.
- X-ray diffraction analysis.
- Analysis by scanning electron microscopy.
- Characterizations, analysis and interpretation of the results of the electrochemical behavior of biomaterials;
- Methods for analyzing and characterizing surfaces and interfaces of biomaterials;
- Mechanical behavior (roughness, adhesion, wear) of metallic and ceramic coatings, biomaterials;
- Physico-Chemical Analysis of Materials.
- Advanced oxidation methods (Fenton, photocatalysis, Photo-Fenton……)

Edited handouts

[1]HEZIL Naouel: Practical work: Adsorbent Materials. Master 1 Analytical Chemistry, matter Sciences Department, Abbes Laghrour University – Khenchela (2023), 59 pages.

[2] HEZIL Naouel: Water Chemistry Course, Master 1 Analytical Chemistry, matter Sciences Department, Abbes Laghrour University – Khenchela (2023), 60 pages.

[3]HEZIL Naouel: Adsorbent Materials Course, Master 1 Analytical Chemistry, matter Sciences Department, Abbes Laghrour University – Khenchela (2019), 68 pages.

INTERNATIONAL PUBLICATIONS

[1] Mamoun Fellah, Naouel Hezil, Nabila Bouchareb, Fouzia Hamadi,Materials Today Communications, Effect of milling time on structural, mechanical and tribological behavior of a newly developed Ti-Ni alloy for biomedical applications. Material today communication, 108201 (2024).https://www.sciencedirect.com/science/article/abs/pii/S2352492824001818. ISSN: 2352-4928. FI: 3.8

[2] Fouzia Hamadi,Mamoun Fellah,Naouel Hezil,Dikra Bouras,SalahEddine Laouini,Alex mountain,Hamiden Abd El-Wahed Khalifa,Aleksei Obrosov,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

Technology35:1, 1043062024 (2024). https://doi.org/10.1016/j.apt.2023.104306.ISSN:0921-8831 E-ISSN: 1568-5527. IF: 5.2

[3] Mamoun Fellah, Naouel Hezil, Fouzia Hamadi, Amjad Iqbal, Mohammed Abdul Samad, Alhanouf Alburaikan, Hamiden Abd El-Wahed Khalifa, Aleksei Obrosov. Effect of Fe content on physical, tribological and photocatalytical properties of Ti-6Al-xFe alloys for biomedical applications. Tribology International.191, 109146 (2024). https://doi.org/10.1016/j.triboint.2023.109146.ISSN:0301-679X, E-ISSN: 1879-2464. IF:6.2

[4] Mohammed Farah, Mamoun Fellah, Dikra Bouras, Naouel Hezil, Abderrachid Becheri, Barille Regis, Henda Daoudi, Alex Montagne, Tmader Alballa, Abd El-Wahed Khalifa Hamiden. Unraveling the role of sintering temperature on physical, structural and tribological characteristics of ball milled Co28Cr6Mo biomaterial based alloy. Journal of Engineering Research. 2307-1885 (2023).https://doi.org/10.1016/j.jer.2023.10.040. ISSN: 2307-1877, IF:1

[5] Marwa Dahmani, Mamoun Fellah, Naouel Hezil, MohamedCherif Benoudia Mohammed Abdul Samad, Alhanouf Alburaikan, Hamiden Abd ElWahed khalifa, Aleksei Obrosov. Structural and mechanical evaluation of a new Ti-Nb-Mo alloy produced by high-energy ball milling with variable milling time for biomedical applications. The International Journal of Advanced Manufacturing Technology. 129, 4971–4991 (2023).https://doi.org/10.1007/s00170-023-12650-0.ISSN: 0268-3768,E-ISSN: 1433-3015 IF:3.4

[6]Mamoun Fellah, Naouel Hezil, Dikra Bouras, Alex Montagne, Aleksei Obrosov, Wasim Jamshed, Rabha W. Ibrahim, Amjad Iqbal, Sayed M El Din, Hamiden Abd El-Wahed Khalifa. 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, 105112 (2023). https://doi.org/10.1016/j.arabjc.2023.105112. ISSN: 1878-5352, E-ISSN: 1878-5379. IF:6

[7] Mamoun Fellah, Naouel Hezil, Dikra Bouras, Aleksei Obrosov, Abdul Samad Mohammed, Alex Montagne, Assmaa Abd-Elmonem, Sayed M El Din, Sabine Weiss. Structural, mechanical and tribological performance of a nano structured biomaterial Co-Cr-Mo alloy synthesized via mechanical alloying.Journal of Materials Research and Technology. 25:2152-2165 (2023).https://doi.org/10.1016/j.jmrt.2023.06.031;https://www.journals.elsevier.com/journal-of-materials-research-and-technologyISSN 2238-7854, E-ISSN: 2214-0697. IF:6.4

[8] Naouel Hezil, Linda Aissani, Mamoun Fellah, Mohamed Abdul Samad, Aleksei Obrosov, Chekalkin Timofei, Ekaterina Marchenko. Structural, and Tribological Properties of Nanostructured α + β Type Titanium Alloys for Total Hip.Journal of Materials Research and Technology.19, 3568-3578. (2022)https://doi.org/10.1016/j.jmrt.2022.06.042,https://www.journals.elsevier.com/journal-of-materials-research-and-technologyISSN: 2238-7854, E-ISSN: 2214-0697. IF:6.4

[9] Fouzia Hammadi., Mamoun Fellah., Naouel Hezil., Linda Aissani., Goussem M., Said Mechachti, M Abdulsamad, Alex Montagne, Alain Iost, Sabine Weiss, Obrosov, A. The effect of milling time on the microstructure and mechanical properties of Ti-6Al-4Fe alloys. Materials Today Communications, 27, 102428

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[11] Mamoun Fellah, Naouel Hezil, Touhami Mohamed Zine, Mohammed Abdul Samad, Aleksei Obrosov, Dmitry O. Bokov, Ekaterina Marchenko, Alex Montagne, Alain IOST, Akram Alhussein. Structural, Tribological and Antibacterial Properties of (α + β) based Ti-Alloys for Biomedical Applications. Journal of Materials Research and Technology, 9(6):14061-14074(2020), doi:https://doi.org/10.1016/j.jmrt.2020.09.118.https://www.journals.elsevier.com/journal-of-materials-research-and-technologyISSN: 2238-7854, E-ISSN: 2214-0697. FI: 6.4

[12] Mamoun Fellah, Naouel Hezil, Kamel Guerfi, Ridha Djellabi, Alex Montagne, Alain Iost, Kirill Borodin; Aleksei Obrosov, Sabine Weiss, Mechanistic pathways of cationic and anionic surfactants sorption by kaolinite in water. Environmental Science and Pollution Research. 28:7307-7321 (2020).https://doi.org/10.1007/s11356-020-11083-6.https://www.springer.com/journal/11356ISSN: 0944-1344, E-ISSN: 1614-7499. IF: 5

[13] Saoudi Adel, Fellah Mamoun, Hezil Naouel, Larari Djahida, Khamouli Farida, Atoui L'Hadi, Bachari Khaldoun, Morozova Julia, Obrosov Aleksei, Abdul Samad Mohammed, Prediction of mechanical properties of welded steel X70 pipeline using neural network modeling,International Journal of Pressure Vessels and Piping. 186, 104153 (2020).https://doi.org/10.1016/j.ijpvp.2020.104153. ISSN: 0308-0161, E-ISSN: 1879-3541. IF:

[14] Fellah, Mamoun, Hezil Naouel., Mohamed Zine, T., Obrosov, A., Weiß, S., Kashkarov, EB, Lider, AM, Montagne, A., Iost, A. Enhanced Structural and Tribological Performance of Nanostructured Ti– 15Nb Alloy for Biomedical Applications, Results in Physics, 15, 102767 (2019),https://doi.org/10.1016/j.rinp.2019.102767.https://www.sciencedirect.com/journal/results-in-physics E-ISSN: 2211-3797.IF: 5.3

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[16] Fellah Mamoun, Hezil Naouel, Abdul Samad Mohammed, Djellabi Ridha, Montagne Alex, IOST Alain, Obrosov Aleksei, Weiss Sabine. Preliminary investigation on the biotribocorroion behavior of newly developed nanostructured near β-types titanium based biomedical alloys, Material Letters, 257, 126755 (2019).https://doi.org/10.1016/j.matlet.2019.126755.*http://www.elsevier.com/locate/mlblu*

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[17] Fellah Mamoun, Hezil Naouel, Abdul Samad Mohammed, Djellabi Ridha, Montagne Alex, Mejias Alberto, Kossman Stephania, IostAlain, Purnama Agung, Obrosov Aleksei, Weiss Sabine. Effect of Molybdenum Content on Structural, Mechanical and Tribological Properties of Hot Isostatically Pressed β-Type Titanium Alloys For Orthopedic Applications, Journal of Materials Engineering and Performance, 28, 5988–5999 (2019).https://doi.org/10.1007/s11665-019-04348-w.https://link.springer.com/journal/11665 ISSN: 1059-9495, E-ISSN: 1544-1024.IF: 2.3

[18] Naouel Hezil, Mamoun Fellah, RidhaDjellabi, Touhami Mohammed Zine, Alex Montagne, Alain Iost, Aleksei Obrosovg, Sabine Weiß. Assessment of the hydrophilic-hydrophobic balance of Alumina oxidized at different temperatures via H2O and C4H10 vapor adsorption" Defect and Diffusion Forum, 397, 161-168 (2019).https://doi.org/10.4028/www.scientific.net/DDF.397.161. ISSN: 1012-0386; E-ISSN: 1662-9507. (Scopus)

[19] Bouaksa, Fethia, Mamoun Fellah, Naouel Hezil, Ridha Djellabi, Mohamed Zine Touhami, Alain Iost, Alex Montagne, Stephania Kosman, and Sabine Weiss. Effect of Thermocyclic Treatment with Different Cooling Rates on the Mechanical Characteristics of 42CD4 Low-Alloy Steel. Defect and Diffusion Forum 397:169–78. (2019).https://doi.org/10.4028/www.scientific.net/DDF.397.169. ISSN: 1012-0386, E-ISSN 1662-9507. (Scopus)

[20] Naouel HEZIL, Mamoun FELLAH, Alex MONTAGNE, Alain IOST, Aleksei OBROSOV, Sabine WEISS, Removal of Chromium (VI) from Water onto Activated Carbon by Adsorption in Dynamic Mode. In: The Minerals, Metals & Materials Society (eds) TMS 2020 149th Annual Meeting & Exhibition Supplemental Proceedings. The Minerals, Metals & Materials Series. Springer, Cham (2020)pp 855-863, https://doi.org/10.1007/978-3-030-36296-6_80.,Online: ISBN978-3-030-36296-6, Print: ISBN 978-3-030-36295-9. (Springer Scopus).https://link.springer.com/chapter/10.1007/978-3-030-36296-6_80

[21] Mamoun FELLAH,Naouel HEZIL, Karima ABDERRAHIM, Mohammed ABDULSAMAD, Alex MONTAGNE, Alberto MEJIAS, Alain IOST, Stephania KOSSMAN, Timofey CHEKALKIN, Aleksei OBROSOV, Sabine WEISS, 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),pp. 619-629.https://doi.org/10.1007/978-3-030-36628-5_61. Online ISBN 978-3-030-36628-5, Print ISBN 978-3-030-36627-8. (Springer Scopus)https://link.springer.com/chapter/10.1007/978-3-030-36628-5_61

[22] Mamoun FELLAH,Naouel HEZIL, Mohammed Zine TOUHAMI, Mohammed A. HUSSIEN, Alex MONTAGNE, Alberto MEJIAS, Alain IOST, Stephania KOSSMAN,

Timofey CHEKALKIN, Aleksei OBROSOV, Sabine WEISS, Effect of Sintering Temperature on Mechanical and Tribological Behavior of Ti–Ni Alloy for Biomedical Applications. In: The Minerals, Metals & Materials Society (eds) TMS 2020 149th Annual Meeting & Exhibition Supplemental Proceedings. The Minerals, Metals & Materials Series. Springer, Cham (2020)pp. 1701-1710, https://doi.org/10.1007/978-3-030-36296-6_157,Online ISBN 978-3-030-36296-6, Print ISBN 978-3-030-36295-9. (Springer Scopus).https://link.springer.com/chapter/10.1007/978-3-030-36296-6_157

[23] Mamoun FELLAH, Naouel HEZIL, Mohammed ABDUL SAMAD, Mohamed Zine TOUHAMI, Alex MONTAGNE, Alain IOST, Alberto MEJIAS, KOSSMAN Stephania "*The Effect of Milling Time on Structural, Friction and Wear Behavior of Hot Isostatically Pressed Ti–Ni Alloys for Orthopedic Applications"*TMS 2019 148th Annual Meeting & Exhibition Supplemental Proceedings.85 (2019) page 865-875https://doi.org/10.1007/978-3-030-05861-6_85(Springer Scopus).https://link.springer.com/chapter/10.1007/978-3-030-05861-6_85.

[24] Mamoun Fellah, Naouel Hezil, Ridha Djellabi, Mohammed Abdul Samad, Touhami Mohammed Zine, Alex Montagne, Alain Iost, Aleksei Obrosovg, 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://doi.org/10.1016/j.clay.2019.05.004;*https://www.sciencedirect.com/journal/applied-clay-science*

[25] Hezil Naouel, Fellah Mamoun, Synthesis, structural and mechanical properties of nano bioceramic (α-Al2O3), Journal of the Australian Ceramic Society. 55 1165-1167 (2019).https://doi.org/10.1007/s41779-019-00333-7.

[26] Fellah Mamoun, Hezil Naouel, Abdul Samad Mohammed, Touhami Mohamed Zine, Montagne Alex, Iost Alain, Alberto Mejias, Kossman Stephania, The Effect of Milling Time on Structural, Friction and Wear Behavior of Hot Isostatically Pressed Ti–Ni Alloys for Orthopedic Applications, Springer Tracts in Modern Physics. 85 (2019) 865-875,https://doi.org/10.1007/978-3-030-05861-6_85.

[27] Hezil Naouel,Fellah Mamoun, Assala Omar, Touhami Mohamed Zine, Guerfi Kamel, "Elimination of chromium (VI) by adsorption onto natural and/or modified Kaolinite, Diffusion Foundations 18 (2018)106-112.https://doi.org/10.4028/www.scientific.net/DF.18.106

COMMUNICATIONS

International Communications

[1] HEZIL Naouel, FELLAH Mmaoun, RIM Imen, BOUCHAREB Nabila, Improved retrieval ofnonionic surfactant from organic media dehydrated and rehydrated kaolin.International Conference on Material Chemistry and Sustainable Development (CM2D'23). Setif, Algeria. 2023.https://cmdd.univ-setif.dz/ https://cmdd.univ-setif.dz/index.php/poster-

program/

[2] RIM Imen, HEZIL Naouel, FELLAH Mmaoun, BOUCHAREB Nabila, Exploring lead adsorption onto inorganic modified Kaolin.International Conference on Material Chemistry and Sustainable Development (CM2D'23). Setif, Algeria, 2023.https://cmdd.univ-setif.dz/https://cmdd.univ-setif.dz/index.php/poster-program/

[3] BOUCHAREB Nabila, HEZIL Naouel, FELLAH Mmaoun, RIM Imen, Effect of milling time on structural characterization of nanostructured Ti-Ni alloy.International Conference on Material Chemistry and Sustainable Development (CM2D'23). Setif, Algeria, 2023.https://cmdd.univ-setif.dz/https://cmdd.univ-setif.dz/index.php/poster-program/

[4] Djafia Ziad, Hezil Naouel, Fellah Mamoun, Mohamed Abdulsamad, Zairi Amel, Montagne Alex, Megias Alberto, Kosman Stephania, Structural studies of Ti-15B and Ti-20Nb alloys. The First International Conference on Material Science and Applications ICMSA'23, Khenchela, Algeria, 2023.https://icmsa2023.sciencesconf.org/

[5] Hezil Naouel, Fellah Mamoun, Spectrophotometric study of EBT Degradation by Fenton process, The First International Conference on Sciences and Technology MatScience-2022, Khenchela, Algeria, 2022.https://matscien ce2022.wixsite.com/uakh

[6] Toualbia Khaled, Fellah Mamoun, Hezil Naouel, The effect on milling time on structural and mechanical properties of HIPed B type Ti15Mo for orthepedic applications, 1st international conference on materials science and technology Khenchela, Algeria, 2022.https://matscien ce2022.wixsite.com/uakh./https://easychair.org/my/conference?conf=matsciences2022

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[8] Dahmani Marwa, Hezil Naouel, Mohamed-Cherif Benoudia, Fellah Mamoun, Adel SAOUDI, Boukhalfa Chaima, An overview on structural and tribological properties on nanostuctured non toxic TNZ alloys for biomedical applications, 2nd International Seminar on Industrial Engineering and Applied Mathematics ISIEAM'22, Skikda October 23-24, Algeria, 2022.https://cre.dz/index.php/fr/actualites/nouvelles/100-seminaire-international-en-genie-industriel-et-mathematiques-applies-sigima-2022

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Content on the Structural and Mechanical Behavior of a Binary (Ti-Nb, Ti-Mo) and Ternary (Ti-Nb-Zr, Ti-Mo-Nb) β-type Alloy for Biomedical Applications.1st International Visio Conference on Materials Science and Engineering. ICMSE'2021 November 17-18, 2021, Khenchela, Algeria.http://www.univ-khenchela.dz/Site%20ICMSE2021/index.htm

National Communications

[1] HEZIL Naouel,FELLAH Mamoun. Decolorizing Dephts: Unraveling the Kinetics of Euriochrome Black T Removal through Fenton Process. 2nd national conference on materials sciences and engineering. 12-13 December 2023. Maghnia, Algeria.https://2mse23.wixsite.com/cumag

[2] FELLAH Mamoun, HEZIL Naouel. BOURAS Dikra, SAOUDI Adel, DAHMANI Marwa. Effect of Fe content on physical, tribological and photocatalytic properties of Ti-6Al-xFe alloys for biomedical applications. 2nd national conference on materials sciences and engineering. 12-13 December 2023. Maghnia, Algeria.https://2mse23.wixsite.com/cumag

[3] HEZIL Naouel,FELLAH Mamoun. The estimation of the hydrophobicity-hydrophilicity of hydrothermal kaolinite by surfactants adsorption. 1st national conference on materials sciences and engineering May 28-29. Khenchela, Algeria, 2022. ISBN: 978-9931-9603-2-4.http://mse.epizy.com/?i=1

[4] HEZIL Naouel,FELLAH Mamoun. Effect of Sn Content (at.%) on the structural, mechanical and tribological Properties of Ti-Nb-Sn alloys. 1st national conference on materials sciences and engineering May 28-29. Khenchela, Algeria, 2022. ISBN: 978-9931-9603-2-4.http://mse.epizy.com/?i=1

[5] Hammadi Fouzia, Hezil Naouel, Fellah Mamoun, Ouanes Mayada, Comparative corrosion behavior of titanium alloys (Ti-6Al-4V, Ti-6Al-4Fe) for Hip implants applications, 1st national conference on materials sciences and engineering 28-29 May .Khenchela , Algeria, 2022. ISBN: 978-9931-9603-2-4.http://mse.epizy.com/?i=1

[6] Hamadi Fouzia, Hezil Naouel, Fellah Mamoun, Mechacheti Said, Ouanes Mayada, Fabrication and characterization of nanocrystalline-Ti-6Al-4Fe) consolidation by mechanically alloyed powders, 1st national conference on materials sciences and engineering, Khenchela, Algeria, 2022. ISBN: 978-9931-9603-2-4.http://mse.epizy.com/?i=1

[7] Dahmani Marwa, Hezil Naouel, Benoudia Mohamed Cherif, Fellah Mamoun, The effect of B stabilizing elements on structural, machanical, and electrochemical behavior of B-type Ti-alloys prepared by MA method for orthopedic applications, 1st national conference on materials sciences and engineering , Khenchela, Algeria, 2022. ISBN: 978-9931-9603-2-4. http://mse.epizy.com/?i=1

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[9] Toualbia Khaled, Fellah Mamoun, Hezil Naouel, The effect on milling time on structural and mechanical properties of HIPed B type Ti15Mo for orthepedic applications.1st national conference on materials sciences and engineering, Khenchela, Algeria, 2022. ISBN: 978-9931-9603-2-4.http://mse.epizy.com/?i=1

[10] Chaima Boukhalfa, Naouel Hezil, Miyada Ouanes, Mamoun Fellah, Mostefa Baccouch, Aleksei Obrosov and Marwa Dahmani. The effect of surface properties on the wear resistance of Ti-6Al-4V biomedical alloy manufactured via mechanical alloying.1st national conference on materials sciences and engineering, Khenchela, Algeria, 2022. ISBN: 978-9931-9603-2-4.http://mse.epizy.com/?i=1

[11] Chaima Boukhalfa, Naouel Hezil, Miyada Ouanes, Mamoun Fellah, Mostefa Baccouch, Aleksei Obrosov and Marwa Dahmani. Structure-property correlation in a Nanostructured Ti-6Al-4V alloy designed for biomedical applications.1st national conference on materials sciences and engineering, Khenchela, Algeria, 2022. ISBN: 978-9931-9603-2-4.http://mse.epizy.com/?i=1

[12] Marwa Dahmani, Mohamed Cherif Benoudia, Naouel Hezil, Mamoun Fellah; "New Developments of β and Near β-Type Titanium Alloys Prepared by Mechanical Alloying Method for Biomedical Applications". Conference on Biomechanics and Medical Imaging (CIBIM 2022) on May 12, 2022, Oran, Algeria.https://labab.enp-oran.dz/?Demonstrations

[13] Naouel Hezil, Mamoun Fellah, Aleksei Obrosov, Alex Montagne. Removal of Cationic and Anionic Surfactants by Kaolinite from Aqueous Medium, 1st National Seminar on Green Chemistry and Natural Products (GCNP'2022, March 14 - 15, -El Oued, Algeria. 2022.https://cgcp.sciencesconf.org/resource/page/id/3

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OTHER RESEARCH ACTIVITIES

MANAGER OR MEMBER OF A RESEARCH PROJECT

[1] PRFU project manager: *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.*Project codeB00L01UN400120220002, (2022-2025)

[2] PRFU project manager**:** *Improvement of the structural, electrochemical and mechanical properties of titanium alloys for total hip prostheses.*PRFU, B00L01UN400120210001, 2021-2024.

[3] Member of the Joint Research Team Project: **Biomaterials, Synthesis and Tribology, 2023.**

[4] Member of the research laboratory: Engineering and Advanced Materials Sciences (ISMA), Abbes Laghrour-Khenchela University (2015-2022).

AGREEMENTS

[1]Member in a Framework Agreement (project leader); Partnership: Abbes Laghrour-Khenchela University and Higher Institute of Technological Studies of Kef (Tunisia). Training, Research and Industrial Development (04/15/2021) (2021-2026)

EXPERTISE, READING COMMITTEE MEMBER

1. Member of the LMD doctorate defense jury in Materials Chemistry: DERARDJA Akram.Department of Matter Sciences, University of Abbes LAGHROU Khenchela. 2023
2. Member of the doctoral defense jury in Chemistry: HAMADI Fouzia. Matter Sciences Department, Badji Mokhtar Annaba University. 2023
3. Expertise of a course handout: "Thermodynamics and Chemical Kinetics" by Dr. Bouakkadia Amel. L1 Matter sciences. Department of Matter Sciences, Abbes Laghrour khenchela University. 2023
4. Expertise of a course handout: Mineral Chemistry" by Dr. BADAOUI Mohamed Ibrahim, L2 Chemistry. Department of Chemistry Batna University 1. 2023
5. Expertise of a course handout: Advanced oxidation methods" by Dr. OTHMANE R Khadija, M2 Chemistry. Department of Chemistry El-Taref University. 2023
6. Member of the doctoral defense jury LMD Chemistry of Matters of: HADJEM Meryem.. Matter sciences department, L'arbi BEN MEHIDI University- Oum el Bouaghi. 2022
7. Jury member for LMD doctorate defense in Process Engineering of the candidate: DJEGHADER Imane. Matter Sciences Department, Badji Mokhtar Annaba University. 2022
8. Jury member for LMD doctorate defense in Chemistry of the candidate: BELAID Imad. Matter Sciences Department, Badji Mokhtar Annaba University. 2022
9. Jury member for doctorate in science in Chemistry: DALI Mounira. Matter Sciences Department, Badji Mokhtar Annaba University. 2021
10. Expertise of a course handout "Organometallic Chemistry" by Dr. Roguai Sabrina. Master1 Chemistry of materials. Department of Matter Science, ABBES Laghrour khenchela University. 2021
11. Jury member for University Accreditation Defense in Chemistry of:Dr. Bouakkadia Amel.Department of Matter Sciences, University of Abbes LAGHROU Khenchela. 2021
12. Jury member for University Accreditation Defense in Chemistry of:Dr. BENMAHDI Fatiha.Department of Chemistry Batna University 1. 2021
13. Jury member for LMD doctorate defense in chemistry and condensed matter physics of the candidate: ARAAR Hala. Department of Matter Sciences, University of Abbes LAGHROU Khenchela. 2021
14. Member of the doctoral defense jury in Chemistry: ZINE Mounia. Matter Sciences Department, Badji Mokhtar Annaba University. 2020
15. Expertise of the candidate's University Accreditation file in Chemistry: Dr.Benali Cherif Rim,Option: Chemistry of Matters. Department of Matter Sciences, Abbes Laghrour khenchela University. 2020
16. Jury member for the candidate's University Accreditation Defense in Chemistry:Dr.Roguai Sabrina. Department of Matter Sciences, University of Abbes LAGHROU Khenchela. 2020

17. Expertise of a course handout "Electrochemistry" by Dr. Samai Salima. L3 Fundamental Chemistry. Department of Matter Sciences, Abbes Laghrour khenchela University. 2020

18. Expertise from a course handout: Methods of phase separation and chromatography" by Dr. Tamersit Sabrina, L3 Analytical Chemistry. Department of Chemistry Batna University 1. 2020

19. Expertise of a course handout "NMR, Mass analysis methods" by Dr. Lamraoui Hanane. Master 1 analytical chemistry and environment. Department of Matter Sciences, Abbes Laghrour khenchela University. 2020

Scientific activities linked to events

1. Chair session: 1st National conference on materials sciences and engineering, MSE'23, Maghnia University Center, December 12-13, 2023.

2. Co-chair of the scientific committee: 1st National conference on materials sciences and engineering, MSE'23, Maghnia University Center, December 12-13, 2023.

3. Member of the scientific committee: The first national symposium on: water, health and environment impact of climate changes, Khenchela University, September 25, 2023.

4. Member of the scientific committee: The fisrt international conference on materials science and applications, Khenchela University, February 8-09, 2023.

5. Co-chair of the conference: 1st Interational conference on materials sciences and Technology, Khenchela University, December 15-16, 2022.

6. Member of the scientific committee: 1st International conference on optoelectronic, materials and renewable energy (ICOMRE'22), El-Oued University, 12-13. December 2022.

7. Member of the scientific committee: The 6th international chemistry symposium (CIC-6), Batna1 University, November 22-24, 2022.

8. Session –Chair The 6th international chemistry symposium (CIC-6) Batna University122-November 24, 2022.

9. Member of the organizing committee: The international workshop on structural resolution by single crystal and powder X-Ray diffraction, Khenchela University, November 6-7, 2022

10. President: 1st National conference on materials sciences and engineering, MSE'22, Khenchela University, June 28-29, 2022.

11. Member of the scientific committee: 1st National Study Days on Theoretical Chemistry and its Applications (JCTA1-21), Khenchela University, December 13-15, 2021

12. Reviewer: 1st international video-conference on materials science and engineering, Khenchela University, November 17-18, 2021.