

Liste des publications internationales en collaboration

2025

Benyoucef, Mekhaneg, and Shubham Subrot Panigrahi. "Fluidization-bed drying and microwave radiation effects on drying rate, fatty acid, protein and germination of rapeseed." *Journal of Food Composition and Analysis* 142 (2025): 107562. <https://doi.org/10.1016/j.jfca.2025.107562>

Ali-Benyahia, Khoudja, Mohamed Ghrici, Said Kenai, Zoubir-Mehdi Sbartaï, and Sidi-Mohammed Elachachi. "Analysis of the accuracy of sampling procedures for coring locations in non-destructive in situ concrete strength assessment." *Structural Concrete* (2025). <https://doi.org/10.1002/suco.70088>

Panigrahi, Shubham Subrot, **Mohamed Hemis**, and Chandra B. Singh. "Energy and moisture source-term based distributive (luikov) parameter model to simulate rapeseed hot-air drying." *Journal of Stored Products Research* 114 (2025): 102701. <https://doi.org/10.1016/j.jspr.2025.102701>

Tellab, Nouredine, **Mohamed Hemis**, Shubham Subrot Panigrahi, and Chandra B. Singh. "Influence of rewetting method on soybean behaviour during fluidized bed drying, experimental and simulation study." *Journal of Stored Products Research* 111 (2025): 102548. <https://doi.org/10.1016/j.jspr.2025.102548>

Boudechiche, Noredine, Zahra Sadaoui, Houria Rezala, Fatima Hattou, and Asma Taeib. "Preparation of activated carbon from Ziziphus jujuba stones by H3PO4-assisted thermochemical activation: application in the removal of anionic diazo dye from synthetic water." *Biomass Conversion and Biorefinery* (2025): 1-18. <https://doi.org/10.1007/s13399-025-06713-3>

Bendali, Nadir, Lorenzo Scalera, Arunachalam Sundaram, Abderrezak Said, and Alessandro Gasparetto. "An approach based on multiquadric radial basis functions for smooth trajectory planning of robotic manipulators with kinematic constraints." *Nonlinear Dynamics* (2025): 1-19. <https://doi.org/10.1007/s11071-025-11248-3>

2024

Mouissi, Ahmed, Rabah Touaibi, and Hasan Köten. "Evaluating the influence of working parameters on the efficiency of a solid oxide fuel cell by conducting sensitivity analysis using electrochemical and thermodynamic modeling." *Environmental Progress & Sustainable Energy* 43, no. 5 (2024): e14457. <https://doi.org/10.1002/ep.14457>

Larbi Bouamrane, **Omar, Benyoucef Mekhaneg**, Shubham Subrot Panigrahi, **Mohamed Hemis**, and Chandra B. Singh. "Fluidization-bed drying and microwave radiation effects on drying rate, fatty acid, protein, and germination of flaxseed." *Journal of Food Process Engineering* 47, no. 1 (2024): e14524. <https://doi.org/10.1111/jfpe.14524>

Tahenni, Touhami, Farid Bouziadi, Mehmet Serkan Kirgiz, **Omar Kouider-Djelloul**, Bensaid Boulekbache, and Sofiane Amziane. "Experimental and numerical study of the effect of stirrups and steel fibres on the shear capacity of reinforced concrete beams." *Engineering Structures* 319 (2024): 118834. <https://doi.org/10.1016/j.engstruct.2024.118834>

2023

Abdesselem, Walid, **Mohamed Hemis**, and Vijaya Raghavan. "Experimental study of drying garlic slices (*Allium sativum* L.) using a fluidized-bed dryer." *Heat and Mass Transfer* 59, no. 2 (2023): 229-237. <https://doi.org/10.1007/s00231-022-03259-2>

Bentridi, S. E., B. Gall, H. Hidaka, **D. Benzaid**, N. Amrani, and F. Gauthier-Lafaye. "Investigation of clay and neutron absorbers' roles in the genesis and evolution of Oklo natural nuclear reactors." *The European Physical Journal Plus* 138, no. 7 (2023): 646. <https://doi.org/10.1140/epjp/s13360-023-04279-5>

Ali-Benyahia, Khoudja, Said Kenai, Mohamed Ghrici, Zoubir-Mehdi Sbartaï, and Sidi-Mohammed Elachachi. "Analysis of the accuracy of in-situ concrete characteristic compressive strength assessment in real structures using destructive and non-destructive testing methods." *Construction and Building Materials* 366 (2023): 130161. <https://doi.org/10.1016/j.conbuildmat.2022.130161> .

2022

Bouziadi, Farid, Bensaid Boulekbache, **Touhami Tahenni**, Abdelkader Haddi, Mostefa Hamrat, and Sofiane Amziane. "Finite element analysis of steady-state uniaxial basic creep of high-performance concrete." *Journal of Building Engineering* 52 (2022): 104500. <https://doi.org/10.1016/j.jobbe.2022.104500>

2021

Rabah, Touaibi, Hasan Koten, Boudjema Fadhila, Selmane Salma, and Hemis Mohamed. "Energy and exergy analysis of a combined system: cascade organic Rankine cycle and cascade refrigeration cycle." *Journal of Thermal Engineering* 7, no. 5 (2021): 1139-1149. <https://doi.org/10.18186/thermal.977992>

Abderezzak, Bilal, Raj Kumar Dreepaul, Krishna Busawon, and Djafar Chabane. "Experimental characterization of a novel configuration of thermoelectric refrigerator with integrated finned heat pipes." *International Journal of Refrigeration* 131 (2021): 157-167. <https://doi.org/10.1016/j.ijrefrig.2021.05.013>

Tahenni, Touhami, Farid Bouziadi, Bensaid Boulekbache, and Sofiane Amziane. "Experimental and numerical investigation of the effect of steel fibres on the deflection

behaviour of reinforced concrete beams without stirrups." In *Structures*, vol. 33, pp. 1603-1619. Elsevier, 2021. <https://doi.org/10.1016/j.istruc.2021.05.005>

2020

Abderezak, B., and S. Randi. "Experimental investigation of waste heat recovery potential from car radiator with thermoelectric generator." *Thermal Science and Engineering Progress* 20 (2020): 100686. <https://doi.org/10.1016/j.tsep.2020.100686>

Abderezak B, Rekioua D, Binns R, Busawon K, Hinaje M, Douine B, Guilbert D. Technical feasibility assessment of a PEM fuel cell refrigerator system. *international journal of hydrogen energy*. 2020 Apr 3;45(19):11211-9. <https://doi.org/10.1016/j.ijhydene.2018.04.060>