

Prof. Dr. Belgacem MAMEN

N° 483 El-Nasr, 40002, Khenchela, Algérie

Département de Génie Civil, Université Abbès Laghrour, 40000 Khenchela, Algérie

belgacem.mamen@univ-khenchela.dz

mamen.belgacem@gmail.com



ENSEIGNEMENT SUPÉRIEUR

02/2024	Doctorat en Génie Civil – (Université de Sidi Bel Abbes, ALGÉRIE) Structures et de Matériaux
07/2019	Habilitation à Diriger des Recherches – (Université d'Annaba, ALGÉRIE) Structures et de matériaux
12/2013	Doctorat en Sciences de l'ingénieur – (Université de Besançon, FRANCE) Simulation numérique en science des matériaux et de l'ingénierie
02/2010	Magister en Génie Civil – (Université de Batna 2, ALGÉRIE) Géotechnique
07/2009	Master Recherche en Mécanique, Energétique et Ingénierie (Grenoble, FRANCE) Modélisation et expérimentation en mécanique des solides
07/2006	Ingénieur Civil – (Université de Batna 2, ALGÉRIE) Constructions civiles et industrielles (<i>Major de promotion</i>)

EXPÉRIENCE ACADEMIQUE

02/2024 – à ce jour	Professeur en Génie Civil – (Université de Khenchela, ALGÉRIE)
08/2019 – 01/2024	Maitre de conférences (A) – (Département de Génie Civil, Université de Khenchela, ALGÉRIE)
12/2016 – 07/2019	Maitre de conférences (B) – (Département de Génie Civil, Université de Khenchela, ALGÉRIE)
12/2015 – 11/2016	Maitre assistant (B) – (Département de Génie Civil, Université de Khenchela, ALGÉRIE)
09/2013 – 09/2014	Attaché temporaire d'enseignement et de recherche (Université de Besançon, FRANCE)

EXPÉRIENCE NON-ACADEMIQUE

09/2008 – 08/2009	Ingénieur en conception Design basé sur le manuel ainsi que les logiciels de création de
09/2006 – 08/2008	Ingénieur Civil de Site Consortium entre les deux sociétés (SÉRO-EST, Algérie) et (Matière, FRANCE)

RESPONSABILITÉS

12/2023 à ce jour	Chef de spécialité (Licence – Travaux Publics)
12/2017 – 11/2023	Chef de spécialité (Master – VOA)

ACTIVITÉS DE SERVICE

Expert pour plusieurs revues internationales

PRINCIPALES PUBLICATIONS DANS LES DIX DERNIÈRES ANNÉES (SELECTIONNEES)

Mamen, B., Bouhadra, A., Bourada, F., Bourada, M., Tounsi, A., & Hussain, M. (2024). Four-variable Quasi-3D model for nonlinear thermal vibration of FG plates lying on Winkler-Pasternak-Kerr foundation. *Scientia Iranica*, (), -. <https://doi.org/10.24200/sci.2024.60340.6746>

Messaoudi, A., Bouhadra, A., Menasria, A., Mamen, B., Boucham, B., Benguediab, M. & Al-Osta, M. A. (2023). Impact of the Shear and Thickness Stretching Effects on the Free Vibrations of Advanced Composite Plates. *Mechanics of Composite Materials*, 1-18. <https://doi.org/10.1007/s11029-023-10148-0>

Ali Rachedi, M., Bouhadra, A., Mamen, B., Benyoucef, S., Tounsi, A., & Ghazwani, M. H. (2023). Assessment of the effect of the materials composition on the bending response of FG plates lying on two models of elastic foundations in thermo-hygro-mechanical environments. *Acta Mechanica*, 1-26. <https://doi.org/10.1007/s00707-023-03696-y>

Lekouara, L., Mamen, B., Bouhadra, A., Menasria, A., Benrahou, K.H, Tounsi, Al-Osta, MA. (2023). Theoretical buckling analysis of inhomogeneous plates under various thermal gradients and boundary conditions. *Structural Engineering and Mechanics*, 86(4):443-459. <https://doi.org/10.12989/sem.2023.86.4.443>

Yahiaoui, D., Boutrid, A., Saadi, M., Mamen, B., & Bouzid, T. (2023). New Anchorage Technique for GFRP Flexural Strengthening of Concrete Beams Using Bolts-End Anchoring System. *International Journal of Concrete Structures and Materials*, 17(1), 1-15. <https://doi.org/10.1186/s40069-023-00578-4>

- Sahli, M., Abid, M., Barrière, T., & **Mamen, B.** (2023). Investigation on machining of a Ti-6Al-4V alloy using FEM simulation and experimental analysis. *International Journal on Interactive Design and Manufacturing (IJIDeM)*, 17(2), 801-811. <https://doi.org/10.1007/s12008-022->
- Lemsara, F., Bouzid, T., Yahiaoui, D., **Mamen, B.**, & Saadi, M. (2023). Seismic Fragility of a Single Pillar-Column Under Near and Far Fault Soil Motion with Consideration of Soil-Pile Interaction. *Engineering, Technology & Applied Science Research*, 13(1), 9819-9824. <https://doi.org/10.48084/etasr.5405>
- Hadji, M., Bouhadra, A., **Mamen, B.**, Menasria, A., Bousahla, A.A., Bourada, F., Bourada, M., Benrahou, H.H., and Tounsi, A. (2023). Combined influence of porosity and elastic foundation parameters on the bending behavior of advanced sandwich structures. *Steel and composite structures*, 46(1), 1-13. <https://doi.org/10.12989/scs.2023.46.1.001>
- Tamrabet, A., **Mamen, B.**, Menasria, A., Bouhadra, A., Tounsi, A., Ghazwani, M. H., Alnujaie, A., and S.R. Mahmoud (2023). Buckling behaviors of FG porous sandwich plates with metallic foam cores resting on elastic foundation. *Structural Engineering and Mechanics*, 85(3), 289. <https://doi.org/10.12989/sem.2023.85.3.289>
- Sahli, M., Abid, M., Barrière, T., & **Mamen, B.** (2022). Investigation on machining of a Ti-6Al-4V alloy using FEM simulation and experimental analysis. *International Journal on Interactive Design and Manufacturing (IJIDeM)*, 1-11. <https://doi.org/10.1007/s12008-022-01116-4>
- Mamen, B.**, Bouhadra, A., Bourada, F., Bourada, M., Tounsi, A., Mahmoud, S. R., & Hussain, M. (2022). Combined Effect of Thickness Stretching and Temperature-Dependent Material Properties on Dynamic Behavior of Imperfect FG Beams Using Three Variable Quasi-3D Model. *Journal of Vibration Engineering & Technologies*, 1-23. <https://doi.org/10.1007/s42417-022-00704-8>
- Berkia, A., Benguediab, S., Menasria, A., Bouhadra, A., Bourada, F., **Mamen, B.**, Tounsi, A., Benrahou, K.H., Benguediab, M., and Hussain, M. (2022). Static buckling analysis of bi-directional functionally graded sandwich (BFGSW) beams with two different boundary conditions. *Steel and composite structures*, 44(4), 489-503. <https://doi.org/10.12989/scs.2022.44.4.503>
- Himeur, N., **Mamen, B.**, Benguediab, S., Bouhadra, A., Menasria, A., Bouhouicha, B., Bourada, F., Benguediab, M. Tounsi, A. (2022). Coupled effect of variable Winkler-Pasternak foundations on bending behavior of FG plates exposed to several types of loading. *Steel and composite structures*, 44(3), 339-355. <https://doi.org/10.12989/scs.2022.44.3.353>
- Fissah, B., Belghalem, H., Djeddou, M., **Mamen, B.** (2022). Critical thermal shock temperature prediction of alumina using improved hybrid models based on artificial neural networks and Shannon entropy. *Journal of Mechanical Engineering and Sciences*, 16(2), 8892-8904. <https://doi.org/10.15282/jmes.16.2.2022.07.0703>
- Messas, T., Achoura, D., Abdelaziz, B., & **Mamen, B.** (2022). Experimental investigation on the mechanical behavior of concrete reinforced with Alfa plant fibers. *Frattura ed Integrità Strutturale*, 16(60), 102-113. <https://doi.org/10.3221/IGF-ESIS.60.08>
- Yahiaoui, D., **Mamen, B.**, Saadi, M., & Bouzid, T. (2022). Experimental verification of the new models applied to glass fibre reinforced concrete (gfrc) confined with glass fibre reinforced polymer (GFRP) composites. *Ceramics-Silikáty*, 66(3), 384-395. <https://doi.org/10.13168/cs.2022.0034>
- Mamen, B.**, & Hammoud, F. (2021). Microstructural observations of shear zones at cohesive soil-steel interfaces under large shear displacements. *Geomechanics and Engineering*, 25(4), 275-282. <https://doi.org/10.12989/gae.2021.25.4.275>
- Mamen, B.**, Benali, F., Boutrid, A., Sahli, M., Hamidouche, M., & Fantozzi, G. (2021). Experimental investigation and non-local modelling of the thermomechanical behaviour of refractory concrete. *Ceramics-Silikáty*, 65(3), 295-304. <https://doi.org/10.13168/cs.2021.0031>
- Mamen, B.**, Kolli, M., Ouedraogo, E., Hamidouche, M., Djoudi, H., & Fantozzi, G. (2019). Experimental characterisation and numerical simulation of the thermomechanical damage behaviour of kaolinitic refractory materials. *Journal of the Australian Ceramic Society*, 55, 555-565. <https://doi.org/10.1007/s41779-018-0262>
- Sahli, M., **Mamen, B.**, Ou, H., Gelin, J. C., Barrière, T., & Assoul, M. (2018). Experimental analysis and numerical simulation of sintered micro-fluidic devices using powder hot embossing process. *The International Journal of Advanced Manufacturing Technology*, 99, 1141-1154. <https://doi.org/10.1007/s00170-018-2509->
- Mamen, B.**, Barriere, T., Gelin, J-C. (2013). Investigations on thermal debinding process for fine 316L stainless steel feedstocks and identification of kinetic parameters from coupling experiments and finite element simulations. *Powder technology*, 235, 192-202. <https://doi.org/10.1016/j.powtec.2012.10.006>
- Mamen, B.**, Song, J., Barriere, T., & Gelin, J. C. (2015). Experimental and numerical analysis of the particle size effect on the densification behaviour of metal injection moulded tungsten parts during sintering. *Powder technology*, 270, 230-243. <https://doi.org/10.1016/j.powtec.2014.10.019>
- Amrane, B., Ouedraogo, E., **Mamen, B.**, Djaknoun, S., & Mesrati, N. (2011). Experimental study of the thermo-mechanical behaviour of alumina-silicate refractory materials based on a mixture of Algerian kaolinitic clays. *Ceramics International*, 37(8), 3217-3227. <https://doi.org/10.1016/j.ceramint.2011.05.095>