LISTA PUBLICAȚIILOR ȘTIINȚIFICE, CĂRȚILOR ȘI CONFERINȚELOR

Mocian Oana

I. TEZA DE DOCTORAT

Analiza răspunsului la impact cu viteze mici a panourilor sandwich cu miez din spumă

II. LISTA PUBLICAȚIILOR ȘTIINȚIFICE

REVISTE ISI

1. **Mocian OA**, Constantinescu DM, Indreș A. Energy absorption enhancement by unit cell angle grading for sandwich panels with auxetic core. Materiale Plastice. 2021;58(4):94-101;
2. **Mocian OA**, Constantinescu DM, Sandu M, Sorohan Ș. Experimental evaluation of the response of sandwich panels in low-velocity impact. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications. 2019;233(3):315-327;
3. **Mocian OA**, Constantinescu DM, Sandu M, Sorohan Ș. Low velocity failure and integrity assessment of foam core sandwich panels. Frattura ed Integrità Strutturale. 2019;13(48):230-241;
4. Constantinescu DM, **Mocian OA**, Sandu M, Sorohan Ș. Low velocity impact response and damage characteristics of foam core sandwich panels with thin GFRP facesheets. Proceedings of the Romanian Academy. 2019; 20(4):369-376.

PROCEEDINGS ISI

1. **Mocian OA**, Constantinescu DM, Indreș A. Assessment on energy absorption of foam core sandwich panels under low velocity impact. Macromolecular Symposia. 2021;396(1);
2. **Mocian OA**, Constantinescu DM, Sandu M, Sorohan Ș, Roșu D, Feuchter M. Impact response of sandwich panels with polyurethane and polystyrene core and composite facesheets. Materials Today: Proceedings. 2019;12(2):192-199;
3. **Mocian OA**, Constantinescu DM, Sandu M, Sorohan Ș. Experimental and numerical analyses of the impact response of lightweight sandwich panels. Materials Today: Proceedings. 2018;5(13):26634-26641;
4. **Mocian OA**, Constantinescu DM, Sandu M, Sorohan Ș. Low velocity impact of 6082-T6 aluminum plates. American Institute of Physics (AIP) Proceedings. 2018;1932, 030025; doi: https://doi.org/ 10.1063/1.5024175;
5. **Mocian OA**, Constantinescu DM, Sandu M, Sorohan Ș. Impact response of polyurethane and polystyrene sandwich panels. Procedia Structural Integrity. 2017;5:653-658.

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1. Indreș A, Constantinescu DM, **Mocian OA**. Bending behavior of 3D printed sandwich beams with different core topologies. Material Design and Processing Communications. 2021;3(4):e252;
2. **Mocian OA**, Constantinescu DM, Sandu M, Sorohan Ș. Influence of core thickness on the impact behavior of sandwich panels with polystyrene foam core: Experimental and numerical investigation. Buletinul Științific UPB, Seria D: Inginerie Mecanică. 2019;81(1):179-190;
3. Oloeriu F, **Mocian OA**, Marinescu M, Grosu D, Ilie C. Theoretical approach on internal combustion engines using multivariable procedures. Advanced Materials research. 2014; 1036:574-579;
4. Oloeriu F, **Mocian OA**, Nedelcu R, Grosu D, Ilie C. Ballistic impact: A comparative case study using Lagrangian method with erosion criterion and SPH. Advanced Materials research. 2014; 1036:568-573;
5. Ilie C, Grosu D, **Mocian OA**, Vilău R, Bartiș D. Using statistically based modeling for vehicle dynamics. Advanced Materials research. 2014; 1036:564-567;
6. Ilie C, Grosu D, **Mocian OA**, Oloeriu F, Vânturiș V. Theoretical and experimental research on sequential RPP manipulator. Advanced Materials research. 2014; 1036:726-731;
7. Oloeriu F, **Mocian OA**. Vehicle dynamic analysis using neuronal network algorithms. Central European Journal of Engineering. 2014;4(2):162-169.

REVISTE INDEXATE ÎN BAZE DE DATE INTERNAȚIONALE

1. **Mocian OA**, Constantinescu DM, Sandu M, Sorohan Ș. Experimental and numerical study of low velocity impact on sandwich panels with aluminum facesheets and foam core. Romanian Journal of Technical Sciences − Applied Mechanics. 2019;64(1):43−56;
2. **Mocian OA**, Constantinescu DM, Sandu M, Sorohan Ș. Low-velocity impact testing of foam core sandwich panels. Journal of Engineering Sciences and Innovation. 2018;3(2):93-106;
3. Năstăsescu V, Bârsan G, **Mocian OA**. Upon the numerical simulation of the foam materials behavior using Element Free Galerkin method. Acta Universitatis Cibiniensis, Technical Series. 2011;69(1).

III.CONFERINȚE INTERNAȚIONALE

1. **Mocian OA**, Constantinescu DM, Indreș AI, Assessment on energy absorption of foam core sandwich panels under low velocity impact, In 4th International Conference Progress on Polymers and Composites Products and Manufacturing Technologies, POLCOM 2020;
2. **Mocian OA**, Constantinescu DM, Sandu M, Sorohan Ș. Low velocity impact of 6082-T6 aluminum plates. In: 7th International Conference on Structural Analysis of Advanced Materials, ICSAAM 2017, 19-22 September, Universitatea POLITEHNICA București, București, 2017;
3. **Mocian OA**, Constantinescu DM, Sandu M, Sorohan Ș. Impact response of polyurethane and polystyrene sandwich panels. In: 2nd International Conference on Structural Integrity, ICSI 2017, 4-7 September, Funchal, Madeira, Portugal, 2017;
4. **Mocian OA**, Constantinescu DM, Sandu M, Sorohan Ș, Roșu D, Feuchter M. Impact response of sandwich panels with polyurethane and polystyrene core and composite facesheets. In: 35th

Danubia Adria Symposium on Advances in Experimental Mechanics, 24-27 September, Sinaia, pp. 39-40, 2018;

5. **Mocian OA**, Constantinescu DM, Sandu M, Sorohan Ș. Experimental evaluation of the response of sandwich panels in low-velocity impact. In: 2nd International Conference on Materials Design and Applications, oral presentation, MDA 2018, July 5-6, University of Porto, Portugal, 2018;
6. **Mocian OA**, Constantinescu DM, Sandu M, Sorohan Ș. Experimental and numerical analyses of the impact response of lightweight sandwich panels. In: 34th Danubia Adria Symposium on Advances in Experimental Mechanics, 19-22 September, University of Trieste, Italy, 2017.

IV. CĂRȚI PUBLICATE

1. Năstăsescu V, Ștefan A, **Mocian OA**, *„Rezistența Materialelor – Volumul I”*, Editura Academiei Tehnice Militare „Ferdinand I” București, 2020, ISBN 978-973-640-312-5;
2. Năstăsescu V, Ștefan A, **Mocian OA**, *„Rezistența Materialelor – Volumul II”*, Editura Academiei Tehnice Militare „Ferdinand I” București, 2021, ISBN 978-973-640-329-3;

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