

## Listă articole științifice (extras)

| Nr. crt. | Prim autor                  | Coautori                                                                                                                                                           | Titlu                                                                                                                                                                                              | <a href="#">Link</a> | Jurnal                                                                                                                               | FI  |
|----------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----|
| 1        | Savu, SV                    | Tamita, D; Stefan, I; Benga, GC; Savu, ID; Sirbu, NA; Dumitru, I; Ciungu, MA; Ursu, M; Cosma, C                                                                    | Research on the Influence of the Defects of Materials on Thermal Runaway in Microwave Hybrid Heating for Sintering Processes                                                                       | <a href="#">Link</a> | APPLIED SCIENCES-BASEL Volume15, Issue8 DOI10.3390/app15084115 Article Number 4115 Published APR 9 2025                              | 2,5 |
| 2        | Stefan, I                   | Benga, GC; Savu, ID; Savu, SV; Ciuca, I; Olei, AB                                                                                                                  | Laser micromachining of TiB2 nanostructured ceramics                                                                                                                                               | <a href="#">Link</a> | ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING Volume68, Issue1-2, Page273-280 Published MAR-JUN 2025 | 0,2 |
| 3        | Stefan, I                   | Benga, GC; Savu, ID; Savu, SV                                                                                                                                      | INFLUENCE OF THE COMPACTION PRESSURE ON THE TiB2 SAMPLE INTEGRITY                                                                                                                                  | <a href="#">Link</a> | ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING Volume68, Issue1-2, Page427-436 Published MAR-JUN 2025 | 0,2 |
| 4        | Socol, R                    | Duma, I; Stefan, I; Savu, ID; Sirbu, NA; Savu, SV; Ciungu, MA                                                                                                      | Influence of Hot-Air Jet (HAJ) Additional Heat Source on the Deposited Polymer in FFF Printing                                                                                                     | <a href="#">Link</a> | MATERIALE PLASTICE Volume62, Issue1, Page86-98 DOI10.37358/MP.25.1.5763 Published MAR 2025                                           | 0,7 |
| 5        | Savu, I.D.                  | Savu S.V., Nicusor-Alin Sirbu                                                                                                                                      | Hybrid heating in the fused filament fabrication process                                                                                                                                           | <a href="#">Link</a> | Welding in the World, 2024, <a href="https://doi.org/10.1007/s40194-024-01851-0">https://doi.org/10.1007/s40194-024-01851-0</a>      | 2,4 |
| 6        | Savu S.V.                   | Cristian Daniel Ghelsingher, Iulian Stefan, Nicusor-Alin Sirbu, Andrei-Angelo Midan, Ilie Dumitru, Ionel Dănuț Savu, Claudiu Nicolicescu, Andrej David             | Microwave Hybrid Sintering and Soldering of Cu-Cr-W Composite Material for Reactive Power Breakers                                                                                                 | <a href="#">Link</a> | Materials 2024, 17(18), 4648                                                                                                         | 3,1 |
| 7        | Savu S.V.                   | Ghelsingher C.D., Stefan I., Sirbu N.-A., Tamita D., Simion D., Savu I.D., Bucse, I.G., Tunescu, T.                                                                | Microwave Soldering of Low-Resistance Conductive Joints—Technical and Economic Aspects.                                                                                                            | <a href="#">Link</a> | Materials 2023, 16, 3311                                                                                                             | 3,1 |
| 8        | Savu S.V.                   | R.C. Marin, A. David, A.B. Olei, I. Dumitru, D. Tamita, A. Maternova, I.D. Savu                                                                                    | Reducing NOx Emissions through Microwave Heating of Aftertreatment Systems for Sustainable Transport in the Inland Waterway Sector                                                                 | <a href="#">Link</a> | Sustainability, 14 (7), 2022                                                                                                         | 3,3 |
| 9        | Laura Madalina Cursaru      | Miruna Iota, Roxana Mioara Piticescu, Daniela Tamita, Sorin Vasile Savu, Ionel Danut Savu, Gabriela Dumitrescu, Diana Popescu, Radu-Gabriel Hertzog, Mihaela Calin | Hydroxyapatite from Natural Sources for Medical Applications                                                                                                                                       | <a href="#">Link</a> | Materials 2022, 15, 5091                                                                                                             | 3,1 |
| 10       | Adrian OLEI                 | Robert MARIN, Iulian ȘTEFAN, Sorin Vasile SAVU, Gabriel BENGĂ, Andrej DAVID, Dănuț SAVU                                                                            | TEMPERATURE DISTRIBUTION IN MONOLITHIC CERAMIC SUBSTRATE OF SELECTIVE CATALYTIC REDUCTION SYSTEM ACTIVATED WITH MICROWAVE FOR REDUCING POLLUTANT EMISSIONS FROM COMBUSTION ENGINES OF INLAND SHIPS | <a href="#">Link</a> | U.P.B. Sci. Bull., Series B, Vol. 84, Iss. 1, 2022                                                                                   | 0   |
| 11       | Cristian Daniel GHELSINGHER | Dalia SIMION, Sorin Vasile SAVU, Iulian ȘTEFAN, Andrej DAVID, Ionel Danut SAVU                                                                                     | MICROWAVE HEATING OF COMPOSITE MATERIAL REINFORCED WITH NATURAL CERAMICS – TECHNICAL AND ECONOMICAL ASPECTS                                                                                        | <a href="#">Link</a> | ACTA TECHNICA NAPOCENSIS, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 65, Issue Special II, 2022                   | 0,1 |
| 12       | Iulian ȘTEFAN               | Gabriel Constantin BENGĂ, Ionel Danut SAVU, Sorin Vasile SAVU, Adrian Bebe OLEI                                                                                    | IMPACT OF PLANETARY BALL MILLING PARAMETERS ON THE PARTICLE SIZE OF TiB2 POWDERS                                                                                                                   | <a href="#">Link</a> | ACTA TECHNICA NAPOCENSIS, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 65, Issue Special II, 2022                   | 0,1 |

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| 13 | Iulian STEFAN | Tamita, Daniela; Bucse, Ionela Gabriela; Savu, Ionel-Danut; Savu, Sorin-Vasile; Cursaru, Laura-Madalina; Piticescu, Roxana Mioara                                | SPECIFIC ASPECTS IN USING SEASHELL POWDER (RAPANA THOMASIANA) IN ELABORATION OF COMPOSITES FOR MEDICAL PURPOSES                                               | <a href="#">Link</a> | ACTA TECHNICA NAPOCENSIS, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 65, Issue Special II, 2022                              | 0,1   |
| 14 | Savu S.V.     | Tamita D., Benga G.C., Dumitru I., Stefan I., Craciunoiu N., Olei A.B., Savu I.D.                                                                                | Microwave technology using low energy concentrated beam for processing of solid waste materials from Rapana Thomasiana seashells                              | <a href="#">Link</a> | Energies, 14 (20), 2021                                                                                                                         | 3     |
| 15 | Savu I.D.     | Tamita D., Savu S.V., Benga G.C., Cursaru, L.M., Dragut D.V., Piticescu R. M., Tamita D.N.                                                                       | Composite Polymer for Hybrid Activity Protective Panel in Microwave Generation of Composite Polytetrafluoroethylene -Rapana Thomasiana                        | <a href="#">Link</a> | Polymers, 13 (15), 2021                                                                                                                         | 4,7   |
| 16 | R.C. MARIN    | A. Bebe OLEI, I. STEFAN, I.D. SAVU, C.D. GHELSINGHER, S.V. SAVU, A. DAVID                                                                                        | RESEARCH ON MICROWAVE HEATING CONDITIONS OF CORDIERITE CYLINDRICAL SHAPE FOR AFTER TREATMENT APPLICATIONS                                                     | <a href="#">Link</a> | ACTA TECHNICA NAPOCENSIS, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 64, No. 1-S2, Issue Special II, February, 2021, 377-387 | 0     |
| 17 | I.D. SAVU     | Ines da FONSECA PESTANA ASCENSO PIRES, S.V. SAVU, M. CIORNEI, D. SIMION, A. B. OLEI                                                                              | SPECIFIC BEHAVIOUR OF SN-9ZN LOW FUSION ALLOY USED AS MATERIAL FOR FILAMENT DEDICATED TO FDM PRINTING PROCESS                                                 | <a href="#">Link</a> | ACTA TECHNICA NAPOCENSIS, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 64, No. 1-S2, Issue Special II, February, 2021, 423-428 | 0     |
| 18 | I.D. SAVU     | S.V. SAVU, N.A. SIRBU, M. CIORNEI, R. C. MARIN, D.I. TUDOSE                                                                                                      | Laser Marking of PLA FDM Printed Products                                                                                                                     | <a href="#">Link</a> | MATERIALE PLASTICE, Mater. Plast., 57(2), 2020, 228-238                                                                                         | 1,517 |
| 19 | I.D. SAVU     | S.V. SAVU, D. SIMION, N.A. SIRBU, M. CIORNEI, S.A. RATIU                                                                                                         | PP in 3D Printing – Technical and Economic Aspects                                                                                                            | <a href="#">Link</a> | MATERIALE PLASTICE, 56, no.4, p. 931-936, 2019                                                                                                  | 1,393 |
| 20 | S.V. SAVU     | I.D. SAVU                                                                                                                                                        | Influence of the ultrasonic activation on the wetting process and on the Ag3Sn needles evolution in the soldering process of copper by using Sn-Ag3.5% solder | <a href="#">Link</a> | U.P.B. Sci. Bull., Series B, Vol. 81, Iss. 2, 2019, p. 155-170, ISSN 1454-2331                                                                  | 0,00  |
| 21 | S.V. SAVU     | I.D. SAVU                                                                                                                                                        | Intermetallics behaviour in ultrasonic activation of the Sn-Ag-Cu solder during eutectic soldering process                                                    | <a href="#">Link</a> | U.P.B. Sci. Bull., Series B, Vol. 80, Iss., 2, 2018, ISSN 1454-2331, pag. 193-212                                                               | 0     |
| 22 | S.V. SAVU     | I.D. SAVU, G.C. BENGHA, I. CIUPITU                                                                                                                               | Functional characteristics of the hybrid us-laser bonds                                                                                                       | <a href="#">Link</a> | OPTOELECTRONICS AND ADVANCED MATERIALS – RAPID COMMUNICATIONS, Vol. 11, No. 9-10, September-October 2017, p. 580 – 585                          | 0,386 |
| 23 | S.V. SAVU     | I.D. SAVU, G.C. BENGHA, I. CIUPITU                                                                                                                               | Improving functionality of Ti6Al4V by laser technology surfacing                                                                                              | <a href="#">Link</a> | OAM-RC, vol. 10, no. 9-10, pag. 752-760, septembrie 2016                                                                                        | 0,47  |
| 24 | Savu, I.D.    | S.V. Savu, A.N. Sirbu                                                                                                                                            | Heat affected zone in polymer laser marking                                                                                                                   | <a href="#">Link</a> | J Therm Anal Calorim (2013), pag. 1427-1437, DOI: 10.1007/s10973-013-3443-2                                                                     | 1,982 |
| 25 | Savu, I.D.    | S.V. Savu, G. Sebeş                                                                                                                                              | Preheating and heat addition by laser beam in hybrid laser-US welding                                                                                         | <a href="#">Link</a> | J Therm Anal Calorim (2013), 111, pag. 1221-1226, DOI: 10.1007/s10973-012-2449-5                                                                | 1,982 |
| 26 | Sebeş, G.     | Savu, I.D., Demian, G.                                                                                                                                           | New system for micro-joining Wedge Bonding of gold wires in metallic foils, using a laser-ultrasonic hybrid active head                                       | <a href="#">Link</a> | U.P.B. Sci. Bull., Series A: Applied Mathematics and Physics, Vol. 74, pag. 163-170, Iss. 1, 2012, ISSN 1223-7027                               | 0     |
| 27 | BalasoIU, M   | Craus, M.L.; Kuklin, A.I.; Plestil, J.; Haramus, V.; Islamov, A.H.; Erhan, R.; Anitas, E.M.; Lozovan, M.; Tripadus, V.; Petrescu, C.; Savu, D.; Savu, S; Bica, I | Microstructure of magnetite doped elastomers investigated by SAXS and SANS                                                                                    | <a href="#">Link</a> | JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 10 Issue: 11 Pages: 2932-2935 Published: NOV 2008                                     | 0     |
| 28 | BalasoIU, M   | Anitas, E.M.; Bica, I; Erhan, R; Osipov, V.A.; Orelovich, O.L.; Savu, D.; Savu, S; Kuklin, A.I.                                                                  | SANS of interacting magnetic micro-sized Fe particles in a Stomaflex creme polymer matrix                                                                     | <a href="#">Link</a> | OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 2 Issue: 11, Pages: 730-734 Published: NOV 2008                             | 0     |