

Savu Sorin Vasile

Lista de lucrări:

1	Savu, SV	Tarnita, 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	Link	APPLIED SCIENCES-BASEL Volume15, Issue8 DOI10.3390/app15084115 Article Number 4115 Published APR 9 2025
2	Stefan, I	Benga, GC; Savu, ID; Savu, SV; Ciuca, I; Olei, AB	Laser micromachining of TiB2 nanostructured ceramics	Link	ACTA TECHNICA NAPOCENSIS SERIES- APPLIED MATHEMATICS MECHANICS AND ENGINEERING Volume68, Issue1-2, Page273-280 Published MAR-JUN 2025
3	Stefan, I	Benga, GC; Savu, ID; Savu, SV	INFLUENCE OF THE COMPACTION PRESSURE ON THE TiB2 SAMPLE INTEGRITY	Link	ACTA TECHNICA NAPOCENSIS SERIES- APPLIED MATHEMATICS MECHANICS AND ENGINEERING Volume68, Issue1-2, Page427-436 Published MAR-JUN 2025
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	Link	MATERIALE PLASTICE Volume62, Issue1, Page86-98 DOI10.37358/MP.25.1.5763 Published MAR 2025
5	I.D. SAVU	Savu S.V., Nicusor-Alin Sirbu	Hybrid heating in the fused filament fabrication process	Link	Welding in the World, 2024, https://doi.org/10.1007/s40194-024-01851-0
6	Savu S.V.	Cristian Daniel Ghelsingher, Iulian Stefan, Nicusor-Alin Sirbu, Andrei- Angelo Midan, Ilie Dumitru, Ionel Dănuț Savu, Claudiu	Microwave Hybrid Sintering and Soldering of Cu-Cr-W Composite Material for Reactive Power Breakers	Link	Materials 2024, 17(18), 4648

		Nicolicescu, Andrej David			
7	Savu S.V.	Ghelsingher C.D., Stefan I., Sirbu N.-A., Tarnita D., Simion D., Savu I.D., Bucse, I.G., Tunescu, T.	Microwave Soldering of Low-Resistance Conductive Joints—Technical and Economic Aspects.	Link	Materials 2023, 16, 3311
8	Savu S.V.	R.C. Marin, A. David, A.B. Olei, I. Dumitru, D. Tarnita, A. Maternova, I.D. Savu	Reducing NOx Emissions through Microwave Heating of Aftertreatment Systems for Sustainable Transport in the Inland Waterway Sector	Link	Sustainability, 14 (7), 2022
9	Laura Madalina Cursaru	Miruna Iota, Roxana Mioara Piticescu, Daniela Tarnita, Sorin Vasile Savu, Ionel Danut Savu, Gabriela Dumitrescu, Diana Popescu, Radu-Gabriel Hertzog, Mihaela Calin	Hydroxyapatite from Natural Sources for Medical Applications	Link	Materials 2022, 15, 5091
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	Link	U.P.B. Sci. Bull., Series B, Vol. 84, Iss. 1, 2022
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	Link	ACTA TECHNICA NAPOCENSIS, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 65, Issue Special II, 2022

12	Iulian STEFAN	Gabriel Constantin BENGĂ, Ionel Danut SAVU, Sorin Vasile SAVU, Adrian Bebe OLEI	IMPACT OF PLANETARY BALL MILLING PARAMETERS ON THE PARTICLE SIZE OF TiB ₂ POWDERS	Link	ACTA TECHNICA NAPOCENSIS, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 65, Issue Special II, 2022
13	Iulian STEFAN	Tarnita, 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	Link	ACTA TECHNICA NAPOCENSIS, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 65, Issue Special II, 2022
14	Savu S.V.	Tarnita 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	Link	Energies, 14 (20), 2021
15	Savu I.D.	Tarnita D., Savu S.V., Benga G.C., Cursaru, L.M., Dragut D.V., Piticescu R. M., Tarnita D.N.	Composite Polymer for Hybrid Activity Protective Panel in Microwave Generation of Composite Polytetrafluoroethylene -Rapana Thomasiana	Link	Polymers, 13 (15), 2021
16	R.C. MARIN	A. Bebe OLEI, I. STEFAN, I.D. SAVU, C.D. GHELSINGER, S.V. SAVU, A. DAVID	RESEARCH ON MICROWAVE HEATING CONDITIONS OF CORDIERITE CYLINDRICAL SHAPE FOR AFTER TREATMENT APPLICATIONS	Link	ACTA TECHNICA NAPOCENSIS, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 64, No. 1-S2, Issue Special II, February, 2021, 377-387
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	Link	ACTA TECHNICA NAPOCENSIS, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 64, No. 1-S2, Issue Special II, February, 2021, 423-428
18	Mako P.	David A., Bohm P, Savu S.V.	Sustainable Transport in the Danube Region	Link	Sustainability, 13 (12), 2021 Jurnal Q2, 2021
19	I.D. SAVU	S.V. SAVU, N.A. SIRBU, M. CIORNEI, R. C. MARIN, D.I. TUDOSE	Laser Marking of PLA FDM Printed Products	Link	MATERIALE PLASTICE, Mater. Plast., 57(2), 2020, 228-238
20	I.D. SAVU	S.V. SAVU, D. SIMION, N.A. SIRBU, M. CIORNEI, S.A. RATIU	PP in 3D Printing – Technical and Economic Aspects	Link	MATERIALE PLASTICE, 56, no.4, p. 931-936, 2019

21	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	Link	U.P.B. Sci. Bull., Series B, Vol. 81, Iss. 2, 2019, p. 155-170, ISSN 1454-2331
22	S.V. SAVU	I.D. SAVU	Intermetallics behaviour in ultrasonic activation of the Sn-Ag-Cu solder during eutectic soldering process	Link	U.P.B. Sci. Bull., Series B, Vol. 80, Iss., 2, 2018, ISSN 1454-2331, pag. 193-212
23	S.V. SAVU	I.D. SAVU, G.C. BENGHA, I. CIUPITU	Functional characteristics of the hybrid us-laser bonds	Link	OPTOELECTRONICS AND ADVANCED MATERIALS – RAPID COMMUNICATIONS, Vol. 11, No. 9-10, September-October 2017, p. 580 – 585
24	S.V. SAVU	I.D. SAVU, G.C. BENGHA, I. CIUPITU	Improving functionality of Ti6Al4V by laser technology surfacing	Link	OAM-RC, vol. 10, no. 9-10, pag. 752-760, septembrie 2016
25	Savu, I.D.	S.V. Savu, A.N. Sirbu	Heat affected zone in polymer laser marking	Link	J Therm Anal Calorim (2013), pag. 1427-1437, DOI: 10.1007/s10973-013-3443-2 Lucrare în zona galbenă în anul 2013
26	Savu, I.D.	S.V. Savu, G. Sebeş	Preheating and heat addition by laser beam in hybrid laser-US welding	Link	J Therm Anal Calorim (2013), 111, pag. 1221-1226, DOI: 10.1007/s10973-012-2449-5
26	Sirbu, NA	Serban VA, Savu S.V.	Influence of the Ultrasonic Microvibrations under the Processing of the HDPE Thermoplastic Material	Link	MATERIALE PLASTICE (2014), vol. 51, 4, pag. 401-404
27	Balasoiiu, 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	Link	JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 10 Issue: 11 Pages: 2932-2935 Published: NOV 2008

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	Link	OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 2 Issue: 11, Pages: 730-734 Published: NOV 2008
29	S.V. SAVU	I.D. SAVU, I. CIUPITU	Thermal Analysis to Evaluate Ageing Process in Heated Tool and Electrofusion Welding of Polymer Pipes	Link	Advanced Materials Research Vol. 837 (2014) pp 190-195, doi:10.4028/www.scientific.net/AMR.837.190
30	I.D. SAVU	S.V. SAVU, G.C. BENGHA	Thermal Runaway of the BaCO ₃ + Fe ₂ O ₃ homogenous mixture and mechanical alloys at the microwave heating	Link	Advanced Materials Research Vol. 837 (2014) pag. 185-189, doi:10.4028/www.scientific.net/AMR.837.185
31	Ciupitu, I.	Benga, G., Ionescu, A., Savu, I.D.	The improving of the process of the iron, the cast iron and the copper powder mixing	Link	Materials Science Forum Vol. 672(2011), pag. 76-79, edited by Trans. Tech. Publications Ltd, Switzerland,ISSN: 1662-9752 DOI: 10.4028/www.scientific.net/MSF.672.76
32	Mangra, GI	Savu, SV; Savu, D	Inductive Sensor With Sintered Magnetic Core to Evaluate the Performances of the Table Tennis Players	Link	Materials Science Forum Volume: 672 Pages: 105-108
33	A. Ionescu	I.D. Savu, S.V. Savu, D. Coman	Computational features of flow modeling in nanostructured sensor	Link	AIP Conference Proceedings, Volume 1117, pp. 125-132 (2009)