UNIVERSITATEA TEHNICĂ “GHEORGHE ASACHI” DIN IAŞI
FACULTATEA: Construcţii de Maşini şi Management Industrial
Domeniul de licenţă: Inginerie Industrială
PSUL TCM

Anexa B.9.5 Rezultatele activităţii de cercetare desfăşurate de personalul didactic şi de cercetare (ultimii 5 ani)

Rezultatele activităţii de cercetare (2020-2025)		
	Cărți	Marius Andrei Mihalache, Aplicarea procedeelor de inginerie inversă în domeniul mecanic, Ed. Performantica, 2024, 483 pagini, ISBN 978-630-328-130-8. Eugen Axinte, Mihai Boca, Constantin Cărăușu, Margareta Coteață, Oana Dodun-des-Perrieres, Petru Dușa, Vasile Ermolai, Traian Grămescu, Simona-Nicoleta Mazurchievici, Vasile Merticaru, Marius Andrei Mihalache, Teodor-Daniel Mîndru, Gheorghe Nagîț, Dumitru Nedelcu, Florin Negoescu, Marius-Ionuț Rîpanu, Laurențiu Slătineanu, Liviu-Lucian Tăbăcaru, Monografia catedrei/Departamentului de TEHNOLOGIA CONSTRUCȚIILOR DE MAȘINI din Universitatea Tehnică ”Gheorghe Asachi” din Iași, Ediția a-2a, revizuită și adăugită, Ed. Performantica, 2024, 316 pagini, ISBN 978630-328-126-1. Laurențiu Slătineanu, Traian Grămescu, Oana Dodun, Eugen Axinte, Mihai Boca, Cazimir Bohosievici, Vasile Braha, Constantin Cărăușu, Viorel Cohal, Margareta Coteață, Gheorghe Crețu, Petru Dușa, Laurențiu Dan Ghenghea, Octavian Lupescu, Vasile Merticaru, Andrei Mihalache, Gavril Muscă, Gheorghe Nagîț, Dumitru Nedelcu, Florin Negoescu, Dragoș Paraschiv, Octavian Pruteanu, Marius Ionuț Rîpanu, Lucian Tăbăcaru, Monografia catedrei/Departamentului de Tehnologia Construcțiilor de Mașini din Universitatea Tehnică ”Gheorghe Asachi” din Iași , Ed. Performantica, 2015, 270 pagini, ISBN 978-606-685-269-2. Sărmășanu-Chihai Constantin, Bujor Adriana, Avram Elena, Tudose Mihaela Brîndușa, Corduban Călin Gabriel, Mihalache Marius Andrei, Negru Daniela, Antreprenoriat Creativ, Ed. Performantica, 2022, vol. I,168 pagini, ISBN 978-606-685-930-1. Marius Andrei Mihalache, Alexandru Sover, Oana Dodun-Des-Perrieres, Gheorghe Nagit, Vasile Merticaru, Adelina Hrituc, Laurentiu Slatineanu, Modern Trends of Reverse Engineering in Digital Manufacturing, capitolul nr. 2 (pagini capitol 23) din volumul ”Digital Product Design and Manufacturing”, 1st Edition. First Published 2025, eBook Published 26 August 2025, Pub. Location: Boca Raton, Imprint: CRC Press, https://doi.org/10.1201/9781003518198, pagini volum 264, eBook ISBN: 9781003518198, disponibil la adresa: https://www.taylorfrancis.com/books/edit/10.1201/9781003518198/digital-product-design-manufacturing-gheorgheoancea-panagiotis-kyratsis Chitariu Dragoș-Florin, *Analiza influenței rigidității dispozitivelor modulare asupra preciziei de prelucrare*, Ed. Performantica, Iași, 2018. - 447 pag. ISBN 978-606-685-621-8 Chitariu Dragoș-Florin, *Construcţia şi exploatarea dispozitivelor modulare,* Ed. Performantica, Iași, 2024, 204 pag. ISBN 978-630-328-105-6 Chitariu Dragoș-Florin, Munteanu Adriana, Ciobanu Bogdan , Boca Mihai, Țugui Catalin Andrei, *Antreprenoriat Inovativ 2*, Ed. Performantica, Iași, 2020.160 pag Chitariu Dragoș-Florin, *Acționare și Comanda Hidraulica a Mașinilor –unelte*, , Ed. Performantica, Iași, 2020. - 225 pag. Dimitrie-Cristian Fodor, Dragoș-Florin Chitariu and Neculai-Eugen Seghedin, *Modern Limb Prosthetics:Classifications,Innovations,*Capitol*Challenges,andtheFutureofHuman Augmentation*, *Bioinspired Technology and Biomechanics*, Ed. IntechOpen,Rijek, 2025, https://doi.org/10.5772/intechopen.115632. Cătălin Gabriel Dumitraș, Mihaiță Horodincă, Adriana Munteanu, Florin Chifan, Dragoș- Florin Chitariu and George-Gabriel Chiriac, Capitol *Vibration in Metal Cutting Process,* Ed. IntechOpen, Rijek, 2025, https://doi.org/10.5772/intechopen.1009581 C.G.Dumitras, V.Ghizdovat, C.M.Rusu, E.Nazaretian, Fl. Nedeff, V.Nedeff, I. Ioja, M.Agop *Dynamical Systems - Latest Developments and Applications,* Edited by Mohammad Shamsuzzoha, chapter *Holographic-Type Behaviours in Complex Systems Dynamics from a Multifractal Perspective of* Motion, IntechOpen Ltd., London, United Kingdom, 2025, ISBN 978-1-83634-368-4

		C.G. Dumitraș, M.Horodincă, A.Munteanu, Fl.Chifan, D.Fl.Chitariu, G.G.Chiriac, *Vibration Engineering - Analysis, Control and Utilization,* Edited by Ming Yuan, chapter *Vibration in Metal Cutting Process* IntechOpen Ltd., London, United Kingdom, 2025, ISBN 978-1-83634-806-1 9. M. Horodinca, Fl. Chifan, E. Paduraru, C.G. Dumitras, A. Munteanu, D.-Fl. Chitariu, *Cutting Processes for Materials in Manufacturing,* edited by JianWeng, Kejia Zhuang, Dongdong Xu, Benkai Li, Hongguang Liu, GangWang, chapter *A Study of 2D Roughness Periodical Profiles on a Flat Surface Generated by Milling with a Ball Nose End Mill,* MDPI AG, Basel, Switzerland, 2025 ISBN 978-3-7258-4077-9 C. Dumitraș, Enachi M., *Sisteme de scule modulate - o nouă abordare*, Editura Performantica, Iași, 2021, ISBN 978-606-685-825-0, 263 pag. (41 rânduri/pag) Munteanu Adriana, Cioata Florentin,Sisteme detolerante in constructia de masini, Editura Performantica, 281 pag, ISBN 978-630-328-145-2, 2025 Munteanu Adriana, Calitatea in sisteme de fabricație, Editura Performantica, 241 pag. , ISBN 978-630-328-146-9, 2025 Slătineanu, L., Nagit Gh., Dodun O., Coteață, M., Munteanu A., Besliu-Bancescu I., Gherman L, Hrituc A., Chimesta F., Goncales-Coelho A., Teixeira J.P, San Juan M., Santo L., Santos F. Non-traditional Manufacturing Processes Editura Tehnica-Info, Chisinau, 2020, ISBN 978-9975- 63-454-0, 406 pag. SEGHEDINN.(ed.),GheorgheAsachi-Unspiritenciclopedic.Ed.UniversitățiiTehnice „Gheorghe Asachi" din Iași, 2023, 500 pag., ISBN 978-973-621-533-9.
	Lucrari ISI	The influence of signal type and distance to the sound source on sound transmission through small 3D printed polymer panels By Hrituc, A (Hrituc, Adelina) [1] ; Mihalache, AM (Mihalache, Andrei Marius) [1] ; Dodun, O (Dodun, Oana) [1] ; Nagît, G (Nagit, Gheorghe) [1] ; Slatineanu, L (Slatineanu, Laurentiu) [1] MATERIAL FORMING, ESAFORM 2024 Volume 41 Page 2506-2513 DOI 10.21741/9781644903131-276
		Perforation resistance of some materials in 3D printed parts By Nicolau, M (Nicolau, Mihaela) [1] ; Hrituc, A (Hrituc, Adelina) [1] ; Mihalache, MA (Mihalache, Marius-Andrei) [1] ; Nagît, G (Nagit, Gheorghe) [1] ; Dusa, P (Dusa, Petru) [1] ; Craciun, E (Craciun, Elisaveta) [1] ; Munteanu, A (Munteanu, Adriana) [1] ; Dodun, O (Dodun, Oana) [1] ; Slatineanu, L (Slatineanu, Laurentiu) [1] MATERIAL FORMING, ESAFORM 2024, Volume 41 Page 2514-2523 DOI 10.21741/9781644903131-277
		Compressive Behavior of Some Balls Manufactured by 3D Printing from Ceramic-Polymer Composite Materials By Hrituc, A (Hrituc, Adelina) [1] ; Ermolai, V (Ermolai, Vasile) [1] ; Mihalache, AM (Mihalache, Andrei Marius) [1] ; Andrusca, L (Andrusca, Liviu) [2] ; Dodun, O (Dodun, Oana) [1] ; Nagît, G (Nagit, Gheorghe) [1] ; Boca, MA (Boca, Marius Andrei) [1] ; Slatineanu, L (Slatineanu, Laurentiu) [1] MICROMACHINE, 2024, volume 15, Issue 1, DOI 10.3390/mi15010150 (factor impact 3)
		THE USE OF PRINCIPLES FROM AXIOMATIC DESIGN IN THE MANAGEMENT OF PROJECT DEVELOPMENT By Dodun, O (Dodun, Oana) [1] ; Nicolau, M (Nicolau, Mihaela) [1] ; Nagît, G (Nagit, Gheorghe) [1] ; Mihalache, MA (Mihalache, Marius-Andrei) [1] ; Hrituc, A (Hrituc, Adelina) [1] ; Slatineanu, L (Slatineanu, Laurentiu) [1] ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING, 2024,Volume 67 Issue 1 Page 49-58 Special Issue SI (factor impact 0,1)
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		Mechanical behavior of macroscopic interfaces for 3D printed multi-material samples made of dissimilar materials By Ermolai, V (Ermolai, Vasile) [1] , [2] ; Sover, A (Sover, Alexandru) [2] ; Boca, MA (Boca, Marius Andrei) [1] , [2] ; Mihalache, AM (Mihalache, Andrei Marius) [1] ; Irimia, AI (Irimia, Alexandru Ionut) [1] ; Hrituc, A (Hrituc, Adelina) [1] ; Slatineanu, L (Slatineanu, Laurentiu) [1] ; Nagit, G (Nagit, Gheorghe) [1] ; Stavarache, RC (Stavarache, Razvan Cosmin) [1] MECHANICS & INDUSTRY , 2024, Volume 25, DOI 10.1051/meca/2024017.(factor impact 1,3)
		Determination of the Friction Coefficient Magnitude in the Case of Polymer Samples Manufactured by 3D Printing Elisaveta Crăciun, Andrei Marius Mihalache, Adelina Hrițuc, Margareta Coteață, Oana Dodun, Gheorghe Nagiț, Marius Ionuț Rîpanu, Laurențiu Slătineanu 2024/6, Macromolecular Symposia, 413,Numărul 3 Pagini 2300204 (factor de impact 0,913

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		Propagation of Sounds through Small Panels Made of Polymer Materials by 3D Printing By Hrituc, A (Hrituc, Adelina) ; Mihalache, AM (Mihalache, Andrei Marius) ; Dodun, O (Dodun, Oana) ; Nagît, G (Nagit, Gheorghe) ; Besliu-Bancescu, I (Besliu-Bancescu, Irina) ; Radulescu, B (Radulescu, Bruno) ; Slatineanu, L (Slatineanu, Laurentiu) POLYMER 2023, Volume 16 Issue 1 DOI 10.3390/polym16010005 (factor impact 5)
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		Heat Transfer in 3D-Printed Polymer Cylindrical Parts Adelina Hrițuc, Andrei Marius Mihalache, Laurențiu Slătineanu, Oana Dodun, Gheorghe Nagît MACROMOLECULAR SYMPOSA, Volume 411, Issue 1, Special Issue SI DOI 10.1002/masy.20220018, October 2023 https://doi.org/10.1002/masy.202200187 (factor impact 0,913)
		Analytical, Numerical and Experimental Analysis of a Positive Displacement Cam Mechanism-A Case Study By Merticaru, E (Merticaru, Eugen) [1] ; Merticaru, V (Merticaru, Vasile) [2] ; Nagît, G (Nagit, Gheorghe) [2] ; Mihalache, AM (Mihalache, Andrei Marius) [2] ; Tabacaru, LL (Tabacaru, Liviu Lucian) [2] ; Rîpanu, MI (Ripanu, Marius Ionut) [2] MACHINE, Volume, 11, Issue, 7, DOI10.3390/machines11070770, Published JUL 2023, (factor impact 2,6)
		Evaluation of Thin Wall Milling Ability Using Disc Cutters By: Hrituc, A (Hrituc, Adelina) [1] ; Mihalache, AM (Mihalache, Andrei Marius) [1] ; Dodun, O (Dodun, Oana) [1] ; Slatineanu, L (Slatineanu, Laurentiu) [1] ; Nagit, G (Nagit, Gheorghe) [1] MICROMACHINES Volume 14, Issue 2 Article Number 341 DOI 10.3390/mi14020341 Published FEB 2023 Indexed 2023-03-20 Document Type Article (factor impact 3,523), Q2
		EQUIPMENT REQUIREMENTS FOR THE INVESTIGATION OF SOUND INSULATION PROPERTIES OF 3D PRINTED POLYMERIC MATERIALS By Hrituc, A (Hrituc, Adelina) [1] ; Dodun, O (Dodun, Oana) [1] ; Mihalache, A (Mihalache, Andrei) [1] ; Nagit, G (Nagit, Gheorghe) [1] ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING Volume, 65, Issue, 4, Page, 1185-1192, Special Issue SI Article (factor impact 0,1)
		SHAPE RECOVERY PROPERTIES OF PET-BASED 3D PRINTED SAMPLES By Ermolai, V (Ermolai, Vasile) [1] ; Sover, A (Sover, Alexandru) [2] ; Nagit, G (Nagit, Gheorghe) [1] ; Irima, AI (Irima, Alexandru Ionut) [1] ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND Volume 65 Issue 4 Page 1117-1122 Special Issue SI , 2022 (factor impact 0,1)
		ERGONOMIC APPROACH TO TEACHING ONLINE ACTIVITY USING PRINCIPLES OF AXIOMATIC DESIGN Slatineanu, L (Slatineanu, Laurentiu) [1] ; Coteata, M (Coteata, Margareta) [1] ; Dodun, O (Dodun, Oana) [1] ; Cioata, F (Cioata, Florentin) [2] ; Munteanu, A (Munteanu, Adriana) [1] , [2] ; Hrituc, A (Hrituc, Adelina) ; Nagît, G (Nagit, Gheorghe) [1] ; Mihalache, A (Mihalache, Andrei) [1] ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING Volume 65, Issue 3, Page 843-852, Special Issue SI Article (factor impact 0,1)
		Tensile Behavior of Joints of Strip Ends Made of Polymeric Materials By: Mihalache, AM (Mihalache, Andrei-Marius) [1] ; Ermolai, V (Ermolai, Vasile) [1] , [2] ; Sover, A (Sover, Alexandru) [2] ; Nagit, G (Nagit, Gheorghe) [1] ; Boca, MA (Boca, Marius-Andrei) [1] , [2] ; Slatineanu, L (Slatineanu, Laurentiu) [1] ; Hrituc, A (Hrituc, Adelina) [1] ; Dodun, O (Dodun, Oana) [1] ; Ripanu, MI (Ripanu, Marius-Ionut) [1] POLYMERS Volume 14 Issue 22 Article Number 4990 DOI 10.3390/polym14224990 Published NOV 2022 Indexed 2022-12-08 Document Type Article (factor impact 4,967) Q1
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		Thermal Expansion of Plastics Used for 3D Printing By: Radulescu, B; Mihalache, AM, Hrituc, A , Radulescu, M , Slatineanu, L , Munteanu, A , Dodun, O , ; Nagit, G POLYMERS Volume 14 Issue 15 Article Number 3061 DOI 10.3390/polym14153061 Published AUG 2022 Indexed 2022-08-24 (factor impact 4.967)
		The Behavior of a 3D Printed Panel under Thermal Stress Mihalache, A ; Hrituc, A ; Slatineanu, L ; Nagit, G ; Dodun, O ; Ermolai, V ; Panaite, E (Panaite, E. MACROMOLECULAR SYMPOSIA Volume 404 , Issue 1, Special Issue SI Article Number 2100332, DOI 10.1002/masy.202100332 Published AUG 2022 (factor impact 0.913)
		Strength of Contact Geometry for Multi-material 3D-Printed Samples Ermolai V., Sover, A ; Nagit, G MACROMOLECULAR SYMPOSIA Volume 404 Issue 1 Special Issue SI Article Number 2100320 DOI 10.1002/masy.202100320 Published AUG 2022(factor impact 0.913)
		Numerical and Experimental Investigations of Thermal Conductivity of 3D Printed Polylactic Acid Panaite, CE ; Mihalache, AM ; Slatineanu, L ; Popescu, A ; Nagit, G; Hrituc, A Dodun, O MACROMOLECULAR SYMPOSIA Volume 404 Issue 1 pecial Issue SI Article Number 2100338 DOI 10.1002/masy.202100338 Published AUG 2022 (factor impact 0.913)
		Tensile Strength Analysis of the Ring-Shape 3D Printed Polymer Parts Hrituc, A ; Slatineanu, L ; Ripanu, M ; Mihalache, A ; Nagit, G ; Dodun, O MACROMOLECULAR SYMPOSIA Volume 404 Issue 1 Special Issue SI Article Number 2100336 DOI 10.1002/masy.202100336 Published AUG 2022 (factor impact 0.913)
		WEDM-Generated Slot Width Variation Modeling Dodun, O ; Slatineanu, L ; Nagit, G ; Hrituc, A ; Mihalache, AM ; Besliu-Bancescu, I MICROMACHINES Volume 13 Issue 8 Article Number 1231 DOI 10.3390/mi13081231 Published AUG 2022 (factor impact 3.523)
		Theoretical, Numerical and Experimental Assessment of Temperature Response in Polylactic Acid and Acrylonitrile Butadiene Styrene Used in Additive Manufacturing Panaite, CE ; Mihalache, AM ; Dodun, O ; Slatineanu, L ; Popescu, A ; Hrituc, A ; Nagit, G POLYMERS Volume 14 Issue 9 Article Number 1714 DOI 10.3390/polym14091714 Published MAY 2022 (factor impact 4.967)
		SELECTION OF A METHOD FOR MACHINING AN ARCHIMEDEAN SPIRAL GROOVE Radulescu, B ; Mihalache, AM ; Radulescu, M ; Slatineanu, L ; Dodun, O ; Nagit, G ; Coteata, M ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING Volume 65 Issue 1 Page 231-238 Special Issue SI Published FEB 2022 ((factor impact 0.07)
		Influence of Some Microchanges Generated by Different Processing Methods on Selected Tribological Characteristics Nagit, G ; Slatineanu, L Dodun, O ; Mihalache, AM ; Ripanu, MI ; Hrituc, A MICROMACHINES Volume 13 Issue 1 Article Number 29 DOI 10.3390/mi13010029 Published JAN 2022 (factor impact 3.523)
		Tensile Strength of Threaded Rods Made by 3D Printing of Polymeric Material Ripanu, MI ; Mihalache, AM ; Slatineanu, L ; Mares, M ; Andrusca, L ; Hrituc, A ; Dodun, O ; Nagit, G ; Coteata, M ; Radulescu, B MATERIALE PLASTICE Volume 58 Issue 4 Page 9-18 DOI 10.37358/MP.21.4.5526 Published DEC 2021 (factor impact 0.782)
		Sustainable Manufacture of Bearing Bushing Parts Hrituc, A (; Slatineanu, L ; Dodun, O ; Nagit, G ; Coteata, M ; Boca, MA ; Ermolai, V SUSTAINABILITY Volume 13 Issue 19 Article Number 10777 DOI 10.3390/su131910777 Published OCT 2021 ((factor impact 3.889)
		Influence of Lubrication and Cooling on the Quality of Single-Point Incremental Forming Parts of Polycarbonate Sheets Besliu-Bancescu, I ; Slatineanu, L ; Dodun, O ; Nagit, G JOURNAL OF MANUFACTURING AND MATERIALS PROCESSING Volume 5 Issue 3 Article Number 75 DOI 10.3390/jmmp5030075 Published SEP 2021
		Evaluation of the Ability to Accurately Produce Angular Details by 3D Printing of Plastic Parts Mihalache, AM ; Nagit, G ; Slatineanu, L ; Hrituc, A ; Markopoulos, A ; Dodun, O MACHINES Volume 9 Issue 8 Article Number 150 DOI 10.3390/machines9080150 Published AUG 2021 ((factor impact 2.899)
		Generation and compression testing of spherical wood bodies Slatineanu, L ; Mihalache, A ; Andrusca, L ; Hrituc, A ; Coteata, M ; Dodun, O ; Nagit, G ; Besliu, I WOOD MATERIAL SCIENCE & ENGINEERING Volume, 17 Issue 6 Page 752-758 DOI 10.1080/17480272.2021.1944308 Published NOV 2 2022 Early Access ,JUN 2021 Indexed 2021-07-06 Document Type Article (factor impact 2.732) Q1
		Abrasive Erosion Behavior of Some Plastic Parts Obtained by 3D Printing

By: Hrituc, Adelina; Slatineanu, Laurentiu; Boca, Marius Andrei; et al.
Conference: 4th International Conference on Progress on Polymers and Composites Products and Manufacturing Technologies (POLCOM) Location: ELECTR NETWORK Date: NOV 26-28, 2020
MACROMOLECULAR SYMPOSIA Volume: 396 Issue: 1 Special Issue: SI Article Number: 2000288 Published: APR 2020 factor impact 0.9135

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By: Slatineanu, Laurentiu; Dodun, Oana; Coteata, Margareta; et al.
MACHINES Volume: 8 Issue: 4 Article Number: 69 Published: DEC 2020 ((factor impact 2.899

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G-G Chiriac, C G Dumitraș, D Fl Chitariu, P Vizureanu, A V Sandu, *Influence of Gravity on Passively Cooled Heat Sink Using Experimental Data and Finite Element Analysis, Processes,* , *11*(3), 896, 2023; https://doi.org/10.3390/pr11030896 (revista cotată ISI - factor de impact: 3,352– zona galbenă)
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