LISTA LUCRĂRILOR ŞTIINŢIFICE PUBLICATE:

Lucrări ISI cu factor de Impact:

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1	System Identification of a Servo-Valve Controlled Hydraulic Cylinder Operating Under Variable Load	Daniel Catalin Stroita, Dorin Bordeasu and Florin Dragan	*Mathematics* **2025**, *13*, 341. https://doi.org/10.3390/math13030341	25
2	The effect of hardening obtained after TIG remelting on the resistance of the 7075 alloy structure to cavitation erosion	Ilare BORDEASU, Brandusa GHIBAN, Cristian GHERA , Cornelia Laura SALCIANU , Lavinia Madalina MICU, Daniel Catalin STROITA, Mihai Alin DEMIAN, Andreea Daniela BUZATU	UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, U.P.B. Sci. Bull., Series B, Vol. 87, Iss. 1, 2025 ISSN 1454-2331 (publicată în curs de indexare)	15
3	Frequency modelling and dynamic identification of cross-flow water turbines	**Stroita Daniel Catalin**, Adriana Sida Manea	THERMAL SCIENCE, PartC, DOI10.2298/TSCI201017354S, Volume26 Issue 2, 2022	4
4	Analitycal approach and numerical methodology validated against experimental data on S shape airfoil for wide flow angles of attack	Manea A. S., Muntean S., **Stroiță D.C.**	Proceedings of the Romanian Academy Series A - Mathematics Physics Technical Sciences Information Science/1454-9069, Vol 21/2, 2020	10
5	Blade Polymeric Material Study of a Cross-Flow Water Turbine Runner	**Stroita Daniel Catalin**, Adriana Sida Manea, Anghel Cernescu	MATERIALE PLASTICE, ISSN 2537-5741 ISSN-L 0025-5289, Vol 56(2), pag. 366-369, 2019	4

Lucrări ISI Proceedings/BDI:

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1	Hydrodynamic Transmission Operating With Two-Phase Flow	M. Bărglăzan, C. Velescu, T. Miloş, Adriana Manea, E. Dobândă**, C. Stroiţă**	WIT Transaction on Engeneering Science, vol. 56, 2007 WIT Press, ISSN 1743-3533, pag. 369-378, 2007	10
2	Kaplan Turbine Blade Design With Octavian Popa Method	Manea, Adriana Sida; Barglazan, Mircea; **Stroita, Daniel Catalin**; Balasoiu, Victor	The 19th INTERNATIONAL DAAAM SYMPOSIUM "Intelligent Manufacturing & Automation: Focus on New Generation of Intelligent Systems and Solutions" 22-25th October 2008, Trnava, Slovakia, pag.0787-0788, DAAAAM INTERNATIONAL VIENNA 2008, ISI PROCEEDINGS, ISSN 1726-9679, ISBN 978-3-901509-68-1, 2008	2
3	Double-Flux Water Turbine Dynamics	**Stroita, Daniel Catalin;** Barglazan, Mircea; Manea, Adriana Sida; Balasoiu, Victor	The 19th INTERNATIONAL DAAAM SYMPOSIUM "Intelligent Manufacturing & Automation: Focus on New Generation of Intelligent Systems and Solutions" 22-25th October 2008, pag. 1325-1326 DAAAAM INTERNATIONAL VIENNA 2008, ISI PROCEEDINGS, ISSN 1726-9679, ISBN 978-3-901509-68-1, 2008	2
4	Gases Separation With Turbionaires Movements Through Coanda Effect	Balasoiu, V; Ionescu, D; Manea, AS; **Stroita, DC;** Bordeasu I	Proceedings of The 20th International DAAAM Symposium, DAAAM Int Vienna, 1726-9679, 2009	2
5	Two-Phase Flow In Hydrodynamic Torque Converter	Manea, AS; Dobanda, E; Barglazan, M; **Stroita, DC**	Proceedings of The 20th International DAAAM Symposium, DAAAM Int Vienna, 1726-9679, 2009	2
6	Blade Design using CAD Technique for Small Power Wind Turbine	Miloş T., Bej, A., Dobândă E., Manea A**.**, Bădărău R., **Stroiţă D**.	IEEE International Joint Conferences on Computational Cybernetics and Technical Informatics ICCC-CONTI 2010, IEEE Catalog Number CFP10575-CDR, ISBN 978-1-4244-7431-8, 27-29 may 2010, Timisoara, Romania, pg,571-575, 2010	5

7	Computational Graph Theory for Find out Optimal Routes of Pipeline Supply	Miloş T., Dobândă E., Manea A., Bădărău R., **Stroiţă D.**	IEEE International Joint Conferences on Computational Cybernetics and Technical Informatics ICCC-CONTI 2010, IEEE Catalog Number CFP10575-CDR, ISBN 978-1-4244-7431-8, 27-29 may 2010, Timisoara, Romania, pg,577-580, 2010	4
8	Hybrid System that Integrates the Lost Energy Recovery on the Water-Water Heat Pump Exhaust Circuit	Danut Tokar , **Catalin Stroita** , Adriana Tokar, Alexandra Rusen	IOP Conf. Series: Materials Science and Engineering 603 (2019) 042002 IOP Publishing doi:10.1088/1757-899X/603/4/042002, 2019	9
9	3D numerical analysis of pulsating water jet in the draft tube cone of hydraulic machinery	Tanasa C.,Stuparu A.,**Stroita C**.,Popescu C.,Susan-Resiga R.	AIP Conference Proceedings, Vol 2186, Article Number180002, 2019	4
10	Air-Dynamic Measurements on “S” Shape Hydrofoils	Adriana Sida Manea, **Daniel Catalin Stroita**, Ilare Bordeasu, Cristian Ghera, Alexandru Nicolae Luca	Mechanisms and Machine Science, vol 174. Springer,Cham. https://doi.org/10.1007/978-3-031-80512-7_5, KOD 2024.	10
11	Investigation of Cavitation Resistance of Biocompatible Zinc Based Alloys for Biomedical Applications	Ilare Bordeasu, Cristian Ghera, Alexandru-Nicolae Luca, Adriana-Sida Manea, **Daniel-Catalin Stroita**, Cornelia Laura Salcianu, Brandusa Ghiban, Lavinia Madalina Micu	Mechanisms and Machine Science, vol 174. Springer, Cham. https://doi.org/10.1007/978-3-031-80512-7_5, KOD 2024.	10

Lucrări publicate în alte reviste naționale/internaționale:

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2	Monitoring the pressure fluctuation in the rotor-stator interaction zone in a pump-turbine	**Drd. Ing. Daniel Cătălin Stroiţă**	Hervex editia a XV-a, ISSN 1454-8003, Noiembrie, pag.19-22, 2007	3
3	Theoretical Investigations of Temperature Variation in Torque Converters Operating with Two-Phase Flow	M Bărglăzan, E. Dobândă, T. Miloş, **D. C. Stroiţă**	3rd International Conference on Energy and Enviroment 22-23 November 2007, ISSN 1454-234x, Bucharest, Romania	8
4	About hydrodynamic torque converter temperature operating with two-phase flow	M. Bărglăzan, Adriana Manea, E. Dobândă, C. Velescu, T. Miloş, **D. C. Stroiţă**	Multiphase flow Conference, Dresda, 24-27 april 2007	
5	Asupra fiabilităţii mecanismului de reglare al paletelor aparatului director la turbinele axiale de tip bulb	Prof. Dr. Ing. Mircea Bărglăzan, Prof. Dr. Ing. Ilare Boreaşu, Prof. Dr. Ing. Mircea Popoviciu, Prof. Dr. Ing. Victor Bălăşoiu, Prof. Dr. Ing. Lucian Mădăras, **Drd. Ing. Daniel Cătălin Stroiţă**	Hervex editia a XV-a, ISSN 1454-8003, Noiembrie, pag. 27-31, 2007	5
6	Experimental results of temperature variation in torque converters operating with two-phase flow	M. Bărglăzan, Adriana Manea, C. Velescu**, C. Stroiţă**	CIEM 2007, Universitatea Politehnica Bucuresti, Sci. Bull. Series C, vol 69, nr. 4, 2007, ISSN 1454-234x	8
7	Characteristic curves for Double-Flux Water Turbine SDC-125	**Daniel Catalin Stroita**, Mircea Bărglăzan	Buletinul Stiintific al Universitatii "Politehnica" din Timisoara, Seria HIDROTEHNICA, Transactions on HYDROTEHNICS, Tom 53(67), Fascicola 2, 2008	4
8	The Automatic Adjustment of The Optimum Operating Point Depending on the Requirements of The Water Supply Using an Intelligent Pump	Teodor Milos, Eugen Dobanda, Adriana Manea, Rodica Badarau, **Daniel Stroita**	Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transaction on Mechanics, Special Issue ISSN 124-6077, Tom 53(67), The International Conference on Hydraulic Machinery and Equipments, Timisoara, October 16-17, 2008, Romania, pag. 247-252	6
9	Optimal Routes of Pipeline Supply Using	Miloş T., Bărglăzan M., Dobândă E., Manea A., Bădărău R., **Stroiţă D**	The International Conference on Design, Technologies & Management in Manufactoring,	9

	the Bellman-Kalaba Algorithm		Iaşi, May 14th – 16th 2010. Published in Buletinul Institutului Politehnic din Iaşi, publicat de Universitatea Tehnică „Gheorghe Asachi" din Iaşi, Tomul LVI (LX), Fasc. 2, Secţia Construcţii de Maşini, ISSN 1011-2855, pag. 205-213 (9 pag.)	
10	Wind Power Set of Small Powers for the Emplacement with Moderate Wind	Miloş T., Gyulai Fr., Dobândă E., Manea A**.**, Bădărău R., **Stroiţă D**	The International Conference on Design, Technologies & Management in Manufactoring, Iaşi, May 14^{th} – 16^{th} 2010. Published in Buletinul Institutului Politehnic din Iaşi, publicat de Universitatea Tehnică „Gheorghe Asachi" din Iaşi, Tomul LVI (LX), Fasc. 2a, Secţia Construcţii de Maşini, ISSN 1011-2855, pag. 133-142 (10 pag.)	10
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14	Efficient Hydro Energy Using In Romania	Adriana Sida Manea, **Daniel Cătălin Stroiţă**	Energetika 2010, pag. 087-090, List Saveza energeticara, Broj 2/ Godina XII, Mart 2010, UDC 620.9, ISSN br. 0354-8651	4
15	Wind Tubine For Individual Sites	Adriana Sida Manea, Dobândă Eugen, **Daniel Cătălin Stroiţă**	Energetika 2011, pag. 184-187, List Saveza energeticara, Broj 2/ Godina XIII, Mart 2011, UDC 620.9, ISSN br. 0354-8651	4
16	Influence on the geometric and hydrodynamic parameters on the	Mircea Bărglăzan, Adriana Sida Manea, **Daniel Cătălin Stroiță**	Buletinul Știintific al Universității Politehnica Timișoara, Seria Matematică-Fizică, Tom 56(70) Fascicola 2, Timișoara, ISSN 1224-6069, 2011, pag. 66-74.	

	torque converter performans,			
17	Modelling the dynamics of a Barglazan torque converter	Adriana Sida Manea, Eugen Dobândă, **Daniel Cătălin Stroiță**	Buletinul Științific al Universităţii Politehnica Timişoara, Seria Matematică-Fizică, Tom 56(70) Fascicola 1, Timișoara, ISSN 1224-6069, 2011, pag. 65-72.	
18	About hydrodynamic and stereo-mechanic design of a double-flux hydraulic Turbine	M. Barglazan, **D.C. Stroita**	Proceedings of 2011 International Salon of Hydraulics and Pneumatics – HERVEX *9 – 11 November, Calimanesti-Caciulata, Romania, pag 198-208*	
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