

PERSONAL INFORMATION

Claudia Irina SĂVESCU (BORZEA)

Gender Female | Date of birth 28/01/1986 | Nationality Romanian

WORK EXPERIENCE

07/2020 – Present

Scientific Researcher Grade III

Romanian Research and Development Institute for Gas Turbines COMOTI

220D Iuliu Maniu Blvd., sector 6, 061126, Bucharest (Romania), RO 445238, www.comoti.ro

Industrial automation and control systems; Elaboration of technical reports, operation manuals and execution documentation; 3D CAD modelling and 2D electrical diagrams design; SCADA electronic and automation cabinets for rotary bladed machinery: design, bench tests and commissioning; Research on renewable sources of energy, Piezoelectric and thermoelectric energy harvesting from industrial equipment; FEM simulations; Dissemination in scientific journals and at international conferences. Research project proposals as person in charge; Team member in research projects:

- **2023-2028:** [PN 23.12.09, contract 31N/2023](#). Component project responsible, "Piezoelectric and Thermoelectric Energy Harvesting System from Vibration and Heat, Regarding Powering Wireless Sensors (PITEH)", part of project "Fundamental research regarding energy harvesting from wind, waste and geothermal heat, as well as from wastes and biomass".
- **2021-2024:** [PN-III-P2-2.1-SOL-2021-2-0169](#). Development and implementation of a modern solution to replace Romanian Naval Forces Fast Patrol Boats (Missile) propulsion systems. <https://comoti.ro/34sol/>.
- **2020-2022:** [PN-III-P2-2.1-PTE-2019-0253](#). Vibrations compensation system for microsurgical laser based equipments. <http://vicomp.apellaser.ro/>.

Business or sector: Automation and Electrical Engineering Department

07/2018 – 06/2020

Scientific Researcher

Romanian Research and Development Institute for Gas Turbines COMOTI

220D Iuliu Maniu Blvd., sector 6, 061126, Bucharest (Romania), RO 445238, www.comoti.ro

Elaboration of technical and execution documentation; 3D CAD modelling and 2D electrical diagrams design; SCADA electronic and automation cabinets for industrial compressors and expanders (design and commissioning tests); Study on renewable sources of energy, Piezoelectric energy harvesting from equipment vibrations; FEM simulations; Compressed air energy storage technologies for electric power generation; Dissemination through scientific articles in journals and attending conferences. Team member in research projects:

- **2016-2021:** [POC 132/23.09.2016 \(105888\)](#). Echipament performant pentru actionarea vanelor din rețeaua de distribuție și transport a gazelor combustibile – EPAVREDI. <https://comoti.ro/proiecte/3-participarea-la-programe-nationale/poc-2014-2020/epavredi/>.
- **2016-2019:** [POC 79/08.09.2016 \(105886\)](#). Tehnologie inovativă de stocare a energiei în sistem CAES prin utilizarea de compresoare și expandere cu surub – ROCAES. . <https://comoti.ro/proiecte/3-participarea-la-programe-nationale/poc-2014-2020/rocaes/>.

Business or sector: Automation and Electrical Engineering Department

08/2016 – 06/2018 **Scientific Research Assistant**
 Romanian Research and Development Institute for Gas Turbines COMOTI
 220D Iuliu Maniu Blvd., sector 6, 061126, Bucharest (Romania), RO 445238, www.comoti.ro
 Elaboration of projects documentation; Quality control and assurance; Technical CAD drawings; Team member in national and international research projects; Elaboration of scientific articles.
Business or sector: Automation and Electrical Engineering Department

10/2011 – 07/2016 **Design Technician**
 Romanian Research and Development Institute for Gas Turbines COMOTI
 220D Iuliu Maniu Blvd., sector 6, 061126, Bucharest (Romania), RO 445238, www.comoti.ro
 Technical drawings; Romanian ↔ English translations; Relations with partners; Department expenses registration, managing equipment acquisition procedures and documents; Research regarding the realisations and novelties from the activity domain; Quality control and assurance.
Business or sector: Automation and Electrical Engineering Department

EDUCATION AND TRAINING

10/2019 – 09/2024 **Doctor of Engineering**
 National University of Science and Technology Politehnica Bucharest (Romania)
 Doctoral School of Electrical Engineering
Thesis: Multisource Piezoelectric and Thermoelectric Energy Harvesting System for Industrial Machinery

10/2016 – 06/2018 **Master of Science Degree**
 University Politehnica of Bucharest (Romania)
 Faculty of Mechanical Engineering and Mechatronics
Specialization: Master of Advanced Mechatronics

10/2005 – 06/2008 **Bachelor of Science Degree**
 and
 10/2014 – 07/2016 University Politehnica of Bucharest (Romania)
 Faculty of Mechanical Engineering and Mechatronics
Specialization: Mechatronics

09/2001 – 06/2005 **Highschool graduate, Baccalaureate Diploma**
 Theoretic Highschool "Grigore Moisil", Bucharest (Romania)
Profile: Mathematics - Informatics intensively English

PERSONAL SKILLS

Mother tongue Romanian

Foreign languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Spanish	B2	B1	B1	B1	B1
Turkish	A2	A2	A2	A2	A2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
[Common European Framework of Reference for Languages](http://www.europa.europa.eu/education/languages/framework/index_en.htm)

Communication skills Teamwork spirit, very sociable, sense of humour

Organisational / managerial skills Very organised, conscientious and rigorous

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Independent user	Independent user	Independent user

Digital skills - Self-assessment grid

- ✓ Very good content creating and editing skills in Microsoft Office (Word, Excel, PowerPoint).
- ✓ 2D&3D computer aided design in Solid Edge, AutoCAD, CATIA and SolidWorks.
- ✓ Numerical simulations with Finite Element Method in COMSOL Multiphysics.
- ✓ Mathematical modelling in Mathcad, Matlab & Simulink, 20sim.
- ✓ Programming software in LabView – “Certificate for completed training of Developing Data Acquisition Applications with NI Hardware Using NI LabVIEW and NI DAQmx”.
- ✓ PDF editing and OCR software (Abby FineReader).

Hobbies

Science-Fiction literature, basketball, drawing, LEGO Technic.

Other information

- **Member in the Scientific Council** of the Romanian Research and Development Institute for Gas Turbines COMOTI – since 01.04.2024.
- **IEEE Student Member** number [95610600](#) (Institute of Electrical and Electronics Engineers).



- **ASME Member.** ID number [103706670](#) (American Society of Mechanical Engineers).



- **Web of Science** ResearcherID: [AAC-4031-2019](#).
- **Scopus** Author Identifier: [56582250800](#).
- **ORCID**: [0000-0001-9578-1222](#).
- **ResearchGate**: <https://www.researchgate.net/profile/Claudia-Savescu>.
- **UEFISCDI ID** (Brainmap): U-1900-063W-0315.
- **LinkedIn**: <https://www.linkedin.com/in/claudia-săvescu-667579308/>.
- **Scientific reviewer activity**
 - ✓ **Energy Conversion and Management (Elsevier)**, WoS **IF 9.9** (2023), <https://www.journals.elsevier.com/energy-conversion-and-management>.
 - ✓ **Journal of Applied and Computational Mechanics**, WoS **IF 2.8** (2023), <https://jacm.scu.ac.ir/>.
 - ✓ **Engineering, Technology & Applied Science Research (ETASR)**, WoS **IF 1.5** (2022), <https://etasr.com/index.php/ETASR>.

- ✓ **12th International Conference on Smart Grid (ICSMARTGRID 2024)**, organized by Gazi University, Turkey, <http://www.icsmartgrid.org/>.
- ✓ **11th International Conference on Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD 2023)**, University Politehnica of Bucharest, RO, www.tererd.upb.ro.
- ✓ **9th and 10th Editions of the International Symposium on Occupational Health and Safety – SESAM 2019 & SESAM 2021**, organized by INCD INSEMEX, <https://sesam2021.insemex.ro/>.
- **Conference session chair**
 - ✓ *Parallel Session C - VII: Renewable Energy – 3*, within **The 2nd International Conference on Electrical, Computer and Energy Technologies (ICECET 2022)**, 20-22 July 2022, Prague, CZ.
 - ✓ *Parallel Session 6A Control & Energy Harvesting* [online], within **8th European Conference on Renewable Energy Systems (ECRES 2020)**, 24-25 August 2020, Istanbul, Turkey.

Appendices Appendix 1 – List of publications
Appendix 2 – List of citations

Signature

Appendix 1 – List of publications

No	Authors	Title	Journal / Conference	Indexing
2024				
1	Daniel Lale, Claudia Săvescu , Mihai Borzea, Mihaela Roman, Daniel Ușeriu, Teodor Stănescu, Adrian Săvescu, Cristian Nechifor, Remus Stoica	Automation System for Testing Pneumatic Starters for Naval Gas Turbines Retrofitting	<i>International Conference on Applied and Theoretical Electricity (ICATE 2024)</i> , Craiova, Romania, 24-26 October 2024. DOI: . Submission 31 .	Web of Science Scopus , IEEE Xplore WOS: N/A
2	Claudia Săvescu , Daniel Comeagă, Mihaela Roman, Daniel Lale, Șerban Dincă, Daniel Ușeriu, Remus Stoica, Daniel Ancuța, Răzvan Borcea	Influence of Tip Mass Slenderness Ratio on Piezoelectric Cantilever Response (doctorate, #16)	<i>Scientific Journal TURBO</i> , vol. XI, no. 2, pp. ??-??, 2024, ISSN 2559-608X. Submission 6 – Accepted .	Copernicus, ROAD, DRJI
3	Claudia Săvescu , Daniel Comeagă, Mihaela Roman, Daniel Lale, Remus Stoica, Eduard Vasile, Cristian Nechifor, Adrian Stoicescu	Experimental Study of a Piezoelectric Harvester Vibrating on an Industrial Screw Compressor (doctorate, #15)	<i>Revue Roumaine des Sciences Techniques - Série Électrotechnique et Énergétique</i> , vol. 69, no. 3, pp. ???-???, 2024. DOI: ??????????? . ISSN 0035-4066, IF 1.0 . Submission 847	Web of Science , IF 1.0 (Q4) Scopus WOS: N/A
4	Daniel Ușeriu, Teodor Stănescu, Eduard Vasile, Laurențiu Cristea, Claudia Săvescu , Alexandru Hank, Remus Stoica, Daniel Lale, Carmen Petre	Thermic and Acoustic Analysis for Noise Reduction in FDM Additive Manufacturing Layer Cooling	<i>Scientific Journal TURBO</i> , vol. XI, no. 2, pp. ??-??, 2024, ISSN 2559-608X. Submission accepted	Copernicus, ROAD, DRJI
5	Remus Stoica, Daniel Lale, Eduard Vasile, Daniel Ușeriu, Mihaela Roman, Alexandru Hank, Claudia Săvescu , Adrian Săvescu, Bogdan Navligu	Automation and Electrical Control in Compressed Air Energy Storage System	<i>Scientific Journal TURBO</i> , vol. XI, no. 1, pp. ??-??, 2024, ISSN 2559-608X. Submission	Copernicus, ROAD, DRJI
6	Claudia Săvescu , Daniel Comeagă, Adrian Stoicescu	Optimization of Cantilever Piezoelectric Harvester to Triangular Shape with Material Reduction Using Finite Element Analysis (doctorate, #14)	<i>Heliyon</i> (Elsevier), vol. 10, no. 13, p. e33209, 2024. DOI: 10.1016/j.heliyon.2024.e33209 . Online ISSN 2405-8440. IF 3.4 .	Web of Science , IF 3.4 (Q1) Scopus WOS: 001260936300001

7	Claudia Săvescu , Daniel Comeagă, Mihaela Roman, Adrian Săvescu	Optimal Resistive Load for Maximizing the Power Output of a Piezoelectric Harvester (doctorate, #13)	<i>Iberian COMSOL Multiphysics Conference 2024</i> , pp. 81-84, 28 June 2024, Málaga, Spain. ISBN 978-84-09-64038-6.	–
8	Mihaela Roman, Claudia Săvescu , Adrian Săvescu, Remus Stoica, Daniel Comeagă	Thermoelectric Generator Simulations with and without Heatsink (doctorate, #12)	<i>Iberian COMSOL Multiphysics Conference 2024</i> , pp. 85-87, 28 June 2024, Málaga, Spain. ISBN 978-84-09-64038-6.	–
9	Claudia Săvescu , Valentin Petrescu, Daniel Comeagă, Răzvan Cărlănescu, Mihaela Roman, Daniel Lale, Andrei Mitru	Thermal Potential of a Twin-Screw Compressor as Thermoelectric Energy Harvesting Source (doctorate, #11)	<i>Engineering, Technology & Applied Science Research (ETASR)</i> , vol. 14, no. 2, pp. 13449-13455, 2024. DOI: 10.48084/etasr.6417 . eISSN 1792-8036.	Web of Science , IF 1.5 (Q2) Scopus WOS: 001198238800020
10	Valentin Petrescu, Claudia Săvescu *, Teodor Stănescu, Cristian Nechifor, Filip Niculescu, Sorin Tomescu, Eduard Vasile	Experimental Analysis of Twin Screw Compressor's Energetic Efficiency Depending on Volume Ratio	<i>Engineering, Technology & Applied Science Research (ETASR)</i> , vol. 14, no. 2, pp. 13456-13462, 2024. DOI: 10.48084/etasr.6425 . eISSN 1792-8036.	Web of Science , IF 1.5 (Q2) Scopus WOS: 001198238800093
2023				
11	Claudia Săvescu , Valentin Petrescu, Daniel Comeagă, Iulian Vlăducă, Cristian Nechifor, Filip Niculescu	Vibration Analysis of a Twin-Screw Compressor as a Potential Source for Piezoelectric Energy Harvesting (doctorate, #10)	<i>Revue Roumaine des Sciences Techniques - Série Électrotechnique et Énergétique</i> , vol. 68, no. 3, pp. 253-258, 2023. DOI: 10.59277/RRST-EE.2023.3.1 . ISSN 0035-4066, IF 0.7 .	Web of Science , IF 0.7 (Q4) Scopus WOS: 001087001200001
12	Cristian Nechifor, Valentin Năvrăpescu, Sorin Tomescu, Claudia Săvescu *, Mihaela Roman, Rareș Conțiu, Adrian Stoicescu	Optimizing the Electronic Control of Suction Valves for Gas Compression Units	<i>Revue Roumaine des Sciences Techniques - Série Électrotechnique et Énergétique</i> , vol. 68, no. 2, pp. 182-187, 2023. DOI: 10.59277/RRST-EE.2023.68.2.11 . ISSN 0035-4066, IF 0.7 .	Web of Science , IF 0.7 (Q4) Scopus WOS: 001026628400011
13	Claudia Săvescu , Alexandru Morega, Yelda Veli, Valentin Petrescu	Numerical Modelling of Thermoelectric Energy Harvesting from Industrial Compressor Waste Heat (doctorate, #9)	<i>13th International Symposium on Advanced Topics in Electrical Engineering (ATEE 2023)</i> , Bucharest, Romania, 23-25 March 2023. DOI: 10.1109/ATEE58038.2023.10108390 .	Scopus , IEEE Xplore
14	Mihaela Roman, Daniel Lale, Claudia Săvescu , Remus Stoica	Photovoltaic Energy Harvesting System with Light Tracing Sensors	<i>13th International Symposium on Advanced Topics in Electrical Engineering (ATEE 2023)</i> , Bucharest, Romania, 23-25 March 2023. DOI: 10.1109/ATEE58038.2023.10108296 .	Scopus , IEEE Xplore
15	Yelda Veli, Claudia Săvescu , Alexandru Morega, Daniel Comeagă	Numerical Analyses on the Responses of Unimorph and Bimorph Piezoelectric Harvesters in Time Domain	<i>Electric Machines, Materials and Drives - Present and Trends, APME</i> , vol. 18, no. 1, pp. 118-124, 2023. ISSN,	DOI CrossRef

		(doctorate, #8)	ISSN-L 1843-5912. DOI: 10.36801/apme.2022.1.14 . (SME '22, XVIII th edition, 9 December 2022)	
2022				
16	Claudia Săvescu , Daniel Comeagă, Alexandru Morega, Yelda Veli	Experimental Tests with Piezoelectric Harvester for Tuning Resonant Frequency to Vibrating Source (doctorate, #7)	<i>Revue Roumaine des Sciences Techniques - Série Électrotechnique et Énergétique</i> , vol. 67, no. 4, pp. 457-460, 2022. https://journal.iem.pub.ro/rst-ee/article/view/307/238 . ISSN 0035-4066, IF 0.670 .	Web of Science, IF 0.670 (Q4) Scopus WOS: 000932012700014
17	Mirela Letiția Vasile, Gabriel Dediu, Filip Niculescu, Claudia Irina Borzea , George Bălan	Propeller Load Simulation on Gas Turbine Test Stand	<i>The 2nd International Conference on Electrical, Computer and Energy Technologies (ICECET 2022)</i> , 20-22 July 2022, Prague, Czech Republic. DOI: 10.1109/ICECET55527.2022.9872833 .	Scopus, IEEE Xplore
18	Claudia Borzea , Daniel Comeagă, Yelda Veli, Adrian Săvescu	Piezoelectric Cantilever Harvester with Trapezoidal/Triangular Section for Increased Conversion Efficiency (doctorate, #6)	<i>Iberian COMSOL Multiphysics Conference 2022</i> , pp. 54-57, 17 June 2022, Málaga, Spain. ISBN 978-84-09-43265-3.	–
19	Claudia Borzea , Valentin Petrescu, Iulian Vlăducă, Mihaela Roman, Gabriel Badea	Potential of Twin-Screw Compressor as Vibration Source for Energy Harvesting Applications (doctorate, #5)	<i>Electric Machines, Materials and Drives - Present and Trends</i> , APME, vol. 17, no. 1, pp. 90-95, 2022. DOI: 10.36801/apme.2021.1.12 . (SME '21, XVII th edition, 19 November 2021)	DOI CrossRef
20	Andrei Manea, Laurențiu Dumitran, Teodora Gorjanu, Claudia Borzea	On Some Comparison Between Accelerated Aging of Mineral Oil Under High Electric Field and High Temperature	<i>Electric Machines, Materials and Drives - Present and Trends</i> , APME, vol. 17, no. 1, pp. 43-50, 2022. DOI: 10.36801/apme.2021.1.6 . (SME '21, XVII th edition, 19 November 2021)	DOI CrossRef
21	Cristian Nechifor, Claudia Borzea , Adrian Stoicescu, Daniel Lale, Mirela Vasile	Modular Automation Cabinet for Proactive Monitoring in ATEX Zone 2	<i>MATEC Web of Conferences</i> , vol. 354, p. 00044, 2022. DOI: 10.1051/mateconf/20223540044 . (10 th Edition of the International Symposium on Occupational Health and Safety – SESAM 2021, Bucharest, Romania, 18 October 2021)	Inspec, CAS, Compendex, DOAJ, EBSCO, Google Scholar
2021				
22	Daniel Lale, Claudia Borzea , Sorina Gogoneață, Cristian Nechifor, Mirela Vasile,	Passengers Monitoring System with Infrared Sensors and Microcontroller	<i>Scientific Journal TURBO</i> , vol. VIII, no. 2, pp. 4-11 (2021), ISSN 2559-608X. https://comoti.ro/wp-content/uploads/2022/12/9.Sci	Copernicus, ROAD, DRJI

	Filip Niculescu		entific-Journal-Turbo-Vol-VIII_1_2021.pdf .	
23	Iulian Vlăducă, Claudia Irina Borzea , Carmen Gheorghişa Petre, Romeo Dorin Hriţcu, Raluca Lucia Maier, Vicenţiu Liviu Ringheanu, Ramona Manuela Stanciuc	Improving the Lifetime of an Electro-Compressor for Autoclave with Optimized Buffer Tank	<i>E3S Web of Conferences</i> , vol. 286, p. 01004, 2021. DOI: 10.1051/e3sconf/202128601004 . (10th International Conference on Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD 2021), Bucharest, Romania, 10-12 June 2021)	Scopus , Web of Conferences, DOAJ, EBSCO, etc.
24	George Iulian Balan, Octavian Narcis Volintiru, Ionuţ Cristian Scurtu, Florin Ioniţă, Mirela Letiţia Vasile, Claudia Borzea	Considerations Regarding the Anti-Icing System for the Ship Propulsion Plant with Gas Turbine	<i>E3S Web of Conferences</i> , vol. 286, p. 04013, 2021. DOI: 10.1051/e3sconf/202128604013 . (10th International Conference on Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD 2021), Bucharest, Romania, 10-12 June 2021)	Scopus , Web of Conferences, DOAJ, EBSCO, etc.
25	Iulian Vlăducă, Claudia Irina Borzea , Mirela Letiţia Vasile, George Iulian Bălan, Adrian Săvescu, Andrei Mîtru, Dragoş Filip Niculescu, Cristian Valentin Nechifor, Teodor Stănescu, Petre Gabriel Badea, Daniel Uşeriu, Răzvan Ciobanu	Automation Control System for Naval Propulsion Retrofitting	<i>2021 International Conference on Applied and Theoretical Electricity (ICATE)</i> , Craiova, Romania, 27-29 May 2021. DOI: 10.1109/ICATE49685.2021.9465065 .	Web of Science Scopus , IEEE Xplore WOS: 000709089900070
26	Claudia Borzea , Alexandru Morega, Daniel Comeagă, Yelda Veli	Temperature Influences on the Performances of a PZT-5H Piezoelectric Harvester (doctorate, #4)	<i>12th International Symposium on Advanced Topics in Electrical Engineering (ATEE 2021)</i> , Bucharest, Romania, 25-27 March 2021. DOI: 10.1109/ATEE52255.2021.9425102 .	Web of Science , Scopus , IEEE Xplore WOS: 000676164800034
27	Yelda Veli, Claudia Borzea , Alin Dobre, Alexandru Morega	Energy Harvesting for Hybrid Powering of Autonomous Wireless Sensors (doctorate, #3)	<i>12th International Symposium on Advanced Topics in Electrical Engineering (ATEE 2021)</i> , Bucharest, Romania, 25-27 March 2021. DOI: 10.1109/ATEE52255.2021.9425164 .	Web of Science , Scopus , IEEE Xplore WOS: 000676164800064
28	Andrei Manea, Laurenţiu Dumitran, Claudia Borzea , Emil Cazacu	Accelerated Ageing Method of Mineral Oil Under High Strength Electrical Field and Partial Discharges	<i>12th International Symposium on Advanced Topics in Electrical Engineering (ATEE 2021)</i> , Bucharest, Romania, 25-27 March 2021. DOI: 10.1109/ATEE52255.2021.9425323 .	Web of Science , Scopus , IEEE Xplore WOS: 000676164800155

29	Filip Niculescu, Claudia Borzea *, Iulian Vlăducă, Andrei Mitru, Mirela Vasile, Alexandra Țăranu, Gabriel Dediu	Automation Control for Revamping the Propulsion System of a Navy Frigate	<i>U.P.B. Scientific Bulletin, Series D Mechanical Engineering</i> , Vol. 83, Iss. 1, pp. 257-268, 2021, ISSN 1454-2358. https://www.scientificbulletin.upb.ro/rev_docs_arhiva/full064_604818.pdf .	Scopus , Inspec, Elsevier, Ulrichs, Metadex, Engineering Village, etc.
30	Claudia Borzea , Adrian Săvescu, Iulian Vlăducă, Adrian Stoicescu	Asynchronous Three-Phase Machine Driven as Generator by a Twin-Screw Expander	<i>Electric Machines, Materials and Drives - Present and Trends</i>), APME, vol. 16, no. 1, pp. 45-52, 2021. DOI: 10.36801/apme.2020.1.5 . (SME'20, XVIth edition, 20 November 2020, Bucharest)	DOI CrossRef
2020				
31	Claudia Irina Borzea , Constantin Daniel Comeagă, Mohammed Naim Uddin, Romeo Dorin Hrițcu, Vicențiu Liviu Ringheanu	Improving the Electric Response of a Cantilever Piezoelectric Energy Harvester by Constraining Tip Curvature (doctorate, #2)	<i>IOP Conference Series: Materials Science and Engineering</i> , vol. 997, p. 012038, December 2020. DOI: 10.1088/1757-899X/997/1/012038 . (The 9th International Conference on Advanced Concepts in Mechanical Engineering (ACME 2020), Online, 4-5 June 2020)	Scopus , EI Compendex, etc.
32	Filip Niculescu, Claudia Borzea , Mirela Letiția Vasile	Marine Gas Turbine for Efficient Ship Propulsion	<i>EMERG</i> , vol. 6, no. 3, pp. 85-93, 23 October 2020. DOI: 10.37410/EMERG.2020.3.08 . (FOREN 2020, Online, 7-10 September 2020)	Scopus , EBSCO, Copernicus
33	Claudia Irina Borzea , Constantin Daniel Comeagă, Adrian Săvescu	Boosting the Electric Response of a Cantilevered Piezoelectric Harvester by Constraining Tip Curvature (doctorate, #1)	<i>8th European Conference on Renewable Energy Systems (ECRES 2020) Proceedings</i> , Istanbul, Turkey (Online), pp. 344-350, 24-25 August 2020, ISBN 978-605-86911-8-6. https://www.ecres.net/proceedings_book_2020.pdf .	-
34	Iulian Vlăducă, Claudia Borzea *, Dan Ionescu, Alexandra Țăranu, Răzvan Ciobanu, Vicențiu Ringheanu, Răzvan Nedelcu	Compressed Air Energy Storage Facility with Water Tank for Thermal Recovery	<i>E3S Web of Conferences</i> , vol. 180, p. 02002, 24 July 2020. DOI: 10.1051/e3sconf/20201800202 . (9th International Conference on Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD 2020), 26-27 June 2020)	Scopus , DOAJ, EBSCO, etc.
35	Filip Niculescu, Claudia Borzea , Adrian Săvescu, Andrei Mitru, Mirela Letiția Vasile	Automation and Electronic Control of Marine Gas Turbine Engine for Ship Revamp	<i>Technium: Romanian Journal of Applied Sciences and Technology</i> , vol. 2, no. 4, pp. 98-108, 10 June 2020, ISSN: 2668-778X. DOI: 10.47577/technium.v2i4.923 .	Copernicus, DOAJ, ROAD, Google Scholar, WorldCat, J-Gate, etc.

36	Claudia Borzea , Adrian Săvescu, Cristinel Hărăguță, Alexandru Găzdac, Răzvan Nedelcu	Automatizare și acționare electrică instalație de stocare energie din aer comprimat (Automation and Electrical Actuation of a Compressed Air Energy Storage Installation)	<i>Electric Machines, Materials and Drives - Present and Trends</i> , APME, vol. 15, no. 1, pp. 15-26, 2020. DOI: 10.36801/apme.2019.1.2 . (SME'19, XVth edition, 15 November 2019, Bucharest)	DOI CrossRef
37	Cristian Nechifor, Claudia Borzea , Iulian Vlăducă, Ion Mălăel, Filip Niculescu	Electrically Actuated Valves for Gas Compression Installations Located in Potentially Explosive Atmospheres	<i>MATEC Web of Conferences</i> , vol. 305, p. 00027, 2020. DOI: 10.1051/mateconf/20203050027 . (9th International Symposium on Occupational Health and Safety (SESAM 2019), Petroșani, Romania, 3 October 2019)	Inspec, CAS, Compendex, DOAJ, EBSCO, Google Scholar
2019				
38	Claudia Borzea , Daniel Comeagă	Analysis and Optimization of a Piezoelectric Energy Harvester	<i>E3S Web of Conferences</i> , vol. 112, p. 04001, 20 August 2019. DOI: 10.1051/e3sconf/201911204001 . (8th International Conference on Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD 2019), Târgoviște, Romania, 6-8 June 2019)	Web of Science , Scopus , DOAJ, EBSCO, etc. WOS: 000619989000068
39	Claudia Borzea , Iulian Vlăducă, Dan Ionescu, Valentin Petrescu, Filip Niculescu, Cristian Nechifor, Gabriel Vătășelu, Mihai Hanek	Compressed Air Energy Storage Installation for Renewable Energy Generation	<i>E3S Web of Conferences</i> , vol. 112, p. 02010, 20 August 2019. DOI: 10.1051/e3sconf/201911202010 . (8th International Conference on Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD 2019), Târgoviște, Romania, 6-8 June 2019)	Web of Science , Scopus , DOAJ, EBSCO, etc. WOS: 000619989000029
40	Claudia Borzea , Daniel Comeagă, Adrian Stoicescu, Cristian Nechifor	Piezoelectric Harvester Performance Analysis for Vibrations Harnessing	<i>U.P.B. Scientific Bulletin, Series C Electrical Engineering and Computer Science</i> , vol. 81, iss. 3, pp. 237-248, 2019, ISSN 2286-3540. https://www.scientificbulletin.upb.ro/rev_docs_arhiva/full7e5_563283.pdf .	Web of Science (ISI Thomson Reuters) , Scopus , Inspec, Ulrichs, etc. WOS: 000477996400019
41	Claudia Irina Borzea , Constantin Daniel Comeagă	Reliability of Euler-Bernoulli Model for Multilayer Composite Piezoelectric Beams	<i>11th International Symposium on Advanced Topics in Electrical Engineering (ATEE 2019)</i> , Bucharest, Romania, pp. 1-6, 28-30 March 2019. DOI: 10.1109/ATEE.2019.8724964	Web of Science , Scopus , IEEE Xplore WOS: 000475904500121

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2	Claudia Borzea	De la Science Fiction la realitate: sabia laser, mai periculoasă decât originalul	<i>Știință & Tehnică</i> , nr. 101, pp. 62-63, decembrie 2020 - ianuarie 2021. ISSN 1220-6555.

Appendix 2 – List of citations

No.	Authors	Article cited	Indexing	Citing article	Indexing	Number of citations WoS Scopus
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1	C. Săvescu, V. Petrescu, D. Comeagă, R. Cărlănescu, M. Roman, D. Lale, A. Mitru	"Thermal Potential of a Twin-Screw Compressor as Thermoelectric Energy Harvesting Source" <i>Engineering, Technology & Applied Science Research (ETASR)</i> , vol. 14, no. 2, pp. 13449-13455, 2024. DOI: 10.48084/etasr.6417 .	Web of Science, IF 1.5 Scopus WOS:001198238800020	E. Vasile, R. Conțiu, Ș. A. Șerban, S. Voicu, G. Mihai, "Performance Improvement Methods for a Screw Compressor with Air Intake Above Atmospheric Pressure", <i>17th WEC Central & Eastern Europe Energy Regional Energy Forum (FOREN 2024)</i> , 16-19 June 2024, Neptun, Romania.	Scopus, EBSCO, Copernicus	1 1
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