RAPORT

de activitate al Filialei Brașov a ASTR pe anul 2021

1. Manifestări științifice

1.1.Conferințe organizate sub egida ASTR prin Filiala Brașov;

* The 9th International Conference on Computational Mechanics And Virtual Engineering (**Roșca Ioan Călin**)

-Computational Mechanics and Virtual Engineering. 21-23 October, 2021**( Vlase Sorin** ).

1.2.Organizarea de alte manifestări știintifice (simpozioane, colocvii,etc.)

* ***Seminarul național PC-Crash, ediția XI-*a** on-line, 15-19 noiembrie 2021, la Universitatea „Transilvania” din Brașov, cu colaborarea Universității Tehnice din Graz ( Austria) și a DSD Linz (Austria). **Co-organizator** **Gheorghe-Alexandru Radu**.

1.3. Participări la manifestări ştiinţifice naţionale

* ***“Seminarul internaţional PC-Crash” ediţia XI-a*** on-line**,** noiembrie 2021, organizat la Universitatea “Transilvania” din Braşov sub egida ASTR, cu colaborarea Universităţii Tehnice din Graz şi a DSD Linz ; **(prelegeri on-line);Gheorghe-Alexandru Radu.**

1.4.Participări la conferințe știintifice naționale, internaționale;

* Participare online la urmatoarele conferinte (lucrarile 1.4.1. – 1.4.3 au corespuns unor evenimente nationale iar 1.4.4. la o conferinta internationala):
* 1.4.1.Conferința ASTR 2021, cu lucrarea ”**Duță A, Vișa I**, From material to prototype-a research structure for the development of novel products and technologies”;
* 1.4.2.International semiconductor conference, CAS 2021, cu lucrarea:

Tismanar I., Obreja C., Buiu O., **Duță A**., ”TiO2 – rGO composite thin films VIS active in photocatalisys”;

* 1.4.3.Emergent technologies in materials engineering, EMERGEMat 2021, cu lucrarea: Gheorghita S., Bogatu C., **Duță A**., ”VIS-active TiO2 – g-C3N4 composites for photocatalytic applications”;
* 1.4.4.New photocatalytic materials for environment, energy and sustainability (NMP-5) & Photocatalytic materials for advanced oxidation processes for the treatment of water, soli, air and surfaces (PAOT-6), cu lucrarea:Tismanar I., Bogatu C., Covei M., **Duță *A****.,* ”Vis-active photocatalytic composites for advanced wastewater treatment”;

- International Conference:Acoustics And Vibration Of Mechanical Structures, Timisoara, May 28-29, 2021(**Vlase Sorin**).

* **Moldovan M., Vișa I**., *Products Development through the Interdisciplinary Programme Study Engineering of Renewable Energy Systems*, A 16-a ediție a Conferinței „Zilele Academiei de Științe Tehnice din România” 2021, „Inter și Transdisciplinaritate în Științele Inginerești și Tehnologie”, 2021;
* **Moldovan M**., *Programul de Studii Ingineria Sistemelor de Energii Regenerabile*, Conferința Ziua Energiei Brașov, 2021
* **Moldovan M., Vișa I**., *Education for Sustainable Development*, Workshop COnnecting and empowering Local authorities with Research capacities to unlock the full potential of CIRCular economy, organizat de Agenția pentru Dezvoltare Regională Centru, 2021;
* **Moldovan M., Vișa I**., *Energy efficient built environment at Transilvania University of Brasov*, Al treilea Workshop Regional - Grupul de lucru al părților interesate - proiect S3UNICA organizat de Agenția Locală a Energiei Alba (ALEA) 2021;
* **Visa I., *Moldovan* M.,** *Achieving the Sustainable Development Goals through Education on Renewable Energy*, The 1st IFToMM for Sustainable Development Goals online Workshop, 2021;
* Rusea I., **Moldovan M., Vișa I**., *Novel Pseudo 3D Design of Solar Thermal Facades with Triangle and Trapeze Solar Thermal Collectors for Increased Architectural Acceptance*, 16th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), Dubrovnik, Croația, 2021.

**2. Participări la contracte de cercetare științifică**

**2.1.Granturi cu finanțare europeană/națională:**

**a.Director de grant;**

**b. responsabil de grant;**

* **Samoilă Cornel**:Grant național PCCDI nr.47/2018 –“ Noi direcții dedezvoltare tehnologică și de utilizare a materialelor nanocomposite avansate*”*

* Proiectul *2-“Nanocompozite oxidice functionalizate pentru aplicatii de senzori”* –Responsabil de Proiect- Faza 2021,**Samoilă Cornel**.
* Materiale carbonice nanostructurate pentru aplicații industriale avansate, NANOCARBON +, PNIII, PCCI, 42/2018. Coordonator : Institutul de Microtehnologii, Universitatea Transilvania din Brașov: partener, având ca responsabil de echipă pe prof. dr. ing. **Anca Duță**.

**c. membru in colectivul de cercetare.**

**-** Membru în colectivul de cercetare al proiectului PN-II-PT-PCCA-2013-4-0656**, Roșca Ioan Călin**.

2.2.Contracte cu terți.

prof.univ.dr.ing**.Gheorghe-Alexandru Radu**

* Colaborare la contractul *“Dezvoltarea elementelor de etanșare dinamică, ce îndeplinesc performanțele de etanșare și fricțiune necesare, utilizate la pompa de căldură a Companiei Thermolift (SUA) “* . Beneficiar Compania „Thermolift” SUA. Contract 5711/2020.

**3. Articole publicate in reviste**

**3.1.Reviste clasificate ISI**;

* Mateescu, AO; Mateescu, G ; Balan, A Ceaus, C; Stamatin, I Cristea, D ; **Samoila, C ;** Ursutiu, D **"***Stainless Steel Surface Nitriding in Open Atmosphere Cold Plasma: Improved Mechanical, Corrosion and Wear Resistance Properties***"** in MATERIALS, Volume: 14 Issue: 17, Article Number: 4836 DOI: 10.3390/ma14174836**, 2021**, ISSN: eISSN: 1996-1944, Accession Number: WOS:000694404900001 RED; IF = 3.623
* **Samoila, C.,** Ursutiu, D. **"***Correlations Determined by Remote Experiment Used for Knowledge Transfer***"** IEEE Transactions on Education Volume: 64, Issue: 1,pp 18-23 Feb. **2021** Print ISSN: 0018-9359 Electronic ISSN: 1557-9638 DOI: 10.1109/TE.2020.2999500Accession Number: WOS:000615036300003; IF = 1.855
* Nascov,V., **Samoilă,C.,** Ursuţiu, D. **"***Corrosion Evaluated by Using Speckle Decorrelation with Potentiodynamic Test of the Corrosion Rate"* July **2021** -- Journal of Testing and Evaluation, Volume 49, Issue 4 ISSN: 0090-3973 DOI:10.1520/JTE20190118 Accession Number WOS:000685475200026; IF = 1.264
* Chamunorwa,T, Modran, H.A., Ursutiu, D., **Samoilă, C**., Hedesiu, H., "*Reconfigurable Wireless Sensor Node Remote Laboratory Platform with Cloud Connectivity*" in Sensors **2021**, Vol. 21, 6405 https://doi.org/10.3390/s21196405 ISSN: 1424-8220 **RED; IF = 3.576**
* Palade, C.,, Lepadatu, A.M., Slav, A., Teodorescu,V.S., Stoica, T.,

Ciurea, M,L., Ursutiu,D.,**Samoila, C.,** "*Nanocrystallized Ge-rich SiGe-HfO2 highly photosensitive in short-wave infrared*" in Materials 2021,Vol 14, x. Special Issue, https://doi.org/10.3390/xxxxx RED; IF = 3.623

* Tismanar I., Obreja C., Buiu O., **Duță A***.,* VIS-active TiO2 – graphene oxide composite thin films for photocatalytic applications
* Yepseu A. P.,Isac L.,Nyamen L.D., Cleymand F.,Duta A., Ndifon P.T., Optical and Photocatalytic Properties of CuxS/ZnO Composite Thin Films Deposited by Robotic Spray Pyrolysis Deposition, Journal of Nanomaterials, Vol. 2021, Article ID 9975600
* Stanciu, M.D.; Drăghicescu, H.T. and **Roșca, I.C**. - Mechanical Properties of GFRPs Exposed to Tensile, Compression and Tensile-Tensile Cyclic Tests, POLYMERS 13 (6), Mar 2021, Article Number 898, DOI 10.3390/polym13060898, WOS:000651942300001
* Cherradi, Y; **Roșca, I.C**.; Cerbu, C.; Kebir, H.; Guendouz, A. ; Benyoucef, M. - Acoustic properties for composite materials based on alfa and wood fibers, APPLIED ACOUSTICS, Volume 174, Article Number 107759, DOI 10.1016/j.apacoust.2020.107759, MAR 2021, WOS:000604418200032
* Determination of Reactivity Ratios from Binary Copolymerization Using the k-Nearest Neighbor Non-Parametric Regression Fazakas-Anca, IS; Modrea, A and **Vlase, S** Nov 2021 | POLYMERS 13 (21);
* Effect of Voids and Internal State Variables in Elasticity of Porous Bodies with Dipolar Structure Marin, M; **Vlase, S**; (...); Precup, G. Nov 2021 | MATHEMATICS 9 (21);
* The Influence of Voids in the Vibrations of Bodies with Dipolar Structure Marin, M; **Vlase, S** and Chirila, A Oct 2021 | SYMMETRY-BASEL 13 (10);
* Video Image Correlation-Based Method Used for the Study of the Torsional Vibrations of an Adder Gearbox Szava, I; Pal-Galfi, B; (...); **Vlase, S** Oct 2021 | ENERGIES 14 (19);
* A reciprocal relation with application in the study of the dislocations

Marin, M; Carrera, E and **Vlase, S** Sep 2021 (Early Access) MECHANICS OF ADVANCED MATERIALS AND STRUCTURES;

* A Mixed Iteration Method to Determine the Linear Material Parameters in the Study of Creep Behavior of the Composites Katouzian, M; **Vlase,** **S** and Scutaru, ML Sep 2021 | POLYMERS 13 (17);
* Existence and uniqueness of a finite energy solution for the mixed value problem of porous thermoelastic bodies Marin, M**; Vlase, S** and Carstea, C Aug 18 2021 | BOUNDARY VALUE PROBLEMS 2021 (1);
* Using the Stochastic Gradient Descent Optimization Algorithm on Estimating of Reactivity Ratios Fazakas-Anca, IS; Modrea, A and **Vlase,** **S;**

Aug 2021 | MATERIALS 14 (16)

* Thermal Scaling of Transient Heat Transfer in a Round Cladded Rod with Modern Dimensional Analysis Galfi, BP; Szava, I; (...); **Vlase, S,**

Aug 2021 | MATHEMATICS 9 (16);

* Multibody Systems with Flexible Elements Marin, M; Baleanu, D and **Vlase, S**, Aug 2021 | SYMMETRY-BASEL 13 (8);
* A Kinematical Analysis of the Flap and Wing Mechanism of a Light Sport Aircraft Using Topological Models [**Vlase, S**](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/30389949); [Ghitescu, IM](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/43078168) and [Paun, M](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/6845124)

Jul 2021 | SYMMETRY-BASEL 13 (7);

* Experimental Dynamic Rigidity of an Elastic Coupling with Bolts

Ghițescu, M; Ghițescu, IM; (...); Borza, PNnJun 2021 | SYMMETRY-BASEL 13 (6);

* Study of Metallic Housing of the Adder Gearbox to Reduce the Noise and to Improve the Design Solution [Gillich, N](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/31644277); [Sirbu, N](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/44528571); (...); [Marin, M](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/538707)

Jun 2021 | METALS 11 (6)

* Study of structures made of composite materials used in automotive industry [**Vlase, S**](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/30389949); [Gheorghe, V](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/4738957); (...); [Ochsner, A](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/28124554)

Dec 2021 | May 2021 (Early Access) | PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L-JOURNAL OF MATERIALS-DESIGN AND APPLICATIONS 235 (11) , pp.2574-2587;

* Composite Structures with Symmetry [Marin, M](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/538707); [Baleanu, D](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/40900557) and **[Vlase, S](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/30389949)**

May 2021 | SYMMETRY-BASEL 13 (5)

* Finite Element Method-Based Simulation Creep Behavior of Viscoelastic Carbon-Fiber Composite [Katouzian, M](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/42017180); **[Vlase, S](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/30389949)** and [Scutaru, ML](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/35477423)

Apr 2021 | POLYMERS 13 (7)

* Vibration Properties of a Concrete Structure with Symmetries Used in Civil Engineering [**Vlase, S**](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/30389949); [Marin, M](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/538707) and [Deaconu, O](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/40826835)

Apr 2021 | SYMMETRY-BASEL 13 (4);

* Creep Response of Carbon-Fiber-Reinforced Composite Using Homogenization Method [Katouzian, M](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/42017180) and **[Vlase, S](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/30389949)** Mar 2021 | POLYMERS 13 (6);
* Vibration Response of a Concrete Structure with Repetitive Parts Used in Civil Engineering **Vlase, S**; Marin, M; (...); Pruncu, C Mar 2021 | MATHEMATICS 9 (5);
* A New Optimized Solution for a Flexible Coupling with Bolts Used in the Mechanical Transmissions. Ghitescu, M; Ghitescu, IM; (...); **Vlase, S,** Feb 2021 | SYMMETRY-BASEL 13 (2);
* Qualitative results in thermoelasticity of type III for dipolar bodies. Marin, M; **Vlase, S**. and Ochsner, A. 2021 | ANALELE STIINTIFICE ALE UNIVERSITATII OVIDIUS CONSTANTA-SERIA MATEMATICA 29 (1) , pp.127-142;
* **Moldovan M**., Rusea D., **Vișa I**., Optimising the thickness of the water layer in a triangle solar thermal collector, Renewable Energy 173, 381-388, 2021 (factor de impact 8,001);
* **Moldovan M**., Burduhos B.G., **Vișa I.,** Yearly Electrical Energy Assessment of a Photovoltaic Platform/Geothermal Heat Pump Prosumer, Energies, 14(13), 3776, 2021 (factor de impact 3,343);
* Visa M., Cosnita M., **Moldovan M**., Marin C.A., Mihaly M., Fly Ash Waste Recycling by Pt/TiO2 Incorporation for Industrial Dye Removal, International Journal of Environmental Research and Public Health 18 (8), 3887, 2021 (impact factor 3,390);
* **Giacomelli I**., Comici V., Stoicanescu M., : ” Studii privind influența tratamentelor termice si termochimice asupra rezistenței la coroziune a oțelurilor inoxidabile martensitice” , trimisă spreanaliza si publicare la JOAM;

**3.2.Reviste clasificate ISI Proceedings**;

* Canciu, A. E., Szőcs, B.,Corlaci, A., **Samoila, C**., Ursutiu, D. "*Magnetic Measurements in Melotherapy"* Advances in Intelligent Systems and Computing 1329.Michael E. Auer, Tiia Rüütmann Editors, Educating Engineers, for Future Industrial Revolutions, Proceedings of the 23rd International, Conference on Interactive Collaborative Learning (ICL2020), Volume 2, pp. pp. 640–646,, ISSN 2194-5357 ISSN 2194-5365 (electronic), ISBN 978-3-030-68200-2 ISBN 978-3-030-68201-9 (eBook), **2021;**
* **Samoila, C**., Ursutiu, D.. Ciurea,M., Müller, M.R. “*Improving the University Industry Environment by Adopting the Remote Experiment as a Pedagogical Method*", Advances in Intelligent Systems and Computing 1329.Michael E. Auer, Tiia Rüütmann Editors, Educating Engineers, for Future Industrial Revolutions, Proceedings of the 23rd International, Conference on Interactive Collaborative Learning (ICL2020), Volume 2, pp. 628 - 640, ISSN 2194-5357 ISSN 2194-5365 (electronic)

ISBN 978-3-030-68200-2 ISBN 978-3-030-68201-9 (eBook), **2021**;

* Chamunorwa, T., Ursutiu, D., **Samoila, C**., Modran, H. A. "*Embedded System Learning Platform for Developing Economies*" Advances in Intelligent Systems and Computing 1329.Michael E. Auer, Tiia Rüütmann Editors, Educating Engineers, for Future Industrial Revolutions, Proceedings of the 23rd International, Conference on Interactive Collaborative Learning (ICL2020), Volume 2, pp.617 - 628, ISSN 2194-5357 ISSN 2194-5365 (electronic), ISBN 978-3-030-68200-2 ISBN 978-3-030-68201-9 (eBook), **2021;**
* Modran, A.H., Ursutiu, D., **Samoila,C.,** Chamunorwa, T. "*Learning Methods Based on Artificial Intelligence in Educating Engineers for the New Jobs of the 5th Industrial Revolution*" Advances in Intelligent Systems and Computing 1329.Michael E. Auer, Tiia Rüütmann Editors, Educating Engineers, for Future Industrial Revolutions, Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020), Volume 2 pp-561-672, ISSN 2194-5357 ISSN 2194-5365 (electronic), ISBN 978-3-030-68200-2 ISBN 978-3-030-68201-9 (eBook), **2021.**

**3.3.Articole publicate in baze de date indexate BDI;**

* **Moldovan M., Visa I.,** *One Year Experimental Evaluation of the Electrical Gain by Solar Tracking a 12 KW Photovoltaic System Installed on a Building Rooftop*, Mechanisms and Machine Science, 91, pp. 551–559, Springer, Cham, 2021;
* **Visa I., *Moldovan* M**., *Achieving the Sustainable Development Goals through Education on Renewable Energy*, Proceedings of The 1st IFToMM for Sustainable Development Goals online Workshop, Springer, 2021;
* Comici V., **Giacomelli I**.,StoicanescuM., : ” Studii privind comportarea la uzare a oțelurilor înalt aliate cu crom”, trimisă su acceptata spre publicare la RECENT.

**3.4. Articole sustinute in Conferinte Internationale;**

* Ivascu, C.O., Ursutiu, D., **Samoila, C**. "*Augmented Reality Production Monitoring Control Room"* (2021) Advances in Intelligent Systems and Computing, 1231 AISC, pp. 260-273. Volume 1231 AISC, 2021, Pages 260-273 17th International Conference on Remote Engineering and Virtual Instrumentation, REV 2020; Athens; United States; 26 February 2020 through 28 February 2020; Code 244009 ISSN: 21945357 ISBN: 978-303052574-3 Source Type: Book Series DOI: 10.1007/978-3-030-52575-0\_21Volume Editors: Auer M.E.,May D. Publisher: Springer;
* Ivascu, C.-O., Ursutiu, D., **Samoila, C**. "*Visible Light Communication for Automotive Market Weather Conditions Simulation"* Advances in Intelligent Systems and Computing Volume 1231 AISC, **2021**, Pages 637-651 17th International Conference on Remote Engineering and Virtual Instrumentation, REV 2020; Athens; United States; 26 February 2020 through 28 February 2020; Code 244009 ISSN: 21945357 ISBN: 978-303052574-3 Source Type: Book Series DOI: 10.1007/978-3-030-52575-0\_53 Volume Editors: Auer M.E.,May D. Publisher: Springer;
* Ursutiu, D**., Samoila**, C., Kane, P., Ciurea, M., Stremtan, M., Ravariu, “*School – University – Industry” Cooperation: “Cypress – National Instruments CLUB”* Advances in Intelligent Systems and Computing Volume 1192 AISC, **2021**, Pages 995-1001 13th International Conference on Interactive Mobile Communication, Technologies and Learning, IMCL 2019; Thessaloniki; Greece; 31 October 2019 through 1 November 2019; Code 245189 ISSN: 21945357 ISBN: 978-303049931-0 SourceType: Book Series, DOI: 10.1007/978-3-030-49932-7\_92 Volume Editors: Auer M.E.,Tsiatsos T., Publisher: Springer Science and Business Media Deutschland GmbH.

**4. Recunoaștere națională si internațională**

**4.1.Citări in reviste indexate ISI;**

**Samoila Cornel**

**Lucrarea:**

“USING REMOTE LABORATORIES IN EDUCATION "Two little ducks in remote experimentation",Editors Zubia,J.J, Alves,G.R. – Chapter 6: “MULTIFINCTIONAL LAB. BASED ON AGILENT USB TECHNOLOGIES”- - ISBN 978-84-9830-335-3-pp.135 -157;Ursutiu,D., Cotfas,P., Cotfas,D.**, Samoila,C,**

**Citata în:**

* "Towards Reliable Remote Laboratory Experiences: A Model for Maximizing Availability Through Fault-Detection and Replication"IEEE Access ( Volume: 9 Page(s): 45032 – 45054, **2021** , E- ISSN: 2169-3536, DOI: 10.1109/ACCESS.2021.3065742

**Lucrarea:**

“Monthly average daily global and diffuse solar radiation based on sunshine duration and clearness index for brasov, romania”Revista Journal of Renewable and Sustainable Energy 6, 053106 (2014); E-ISSN: 1941-7012, DOI: 10.1063/1.4896596, AIP Publishing-2014, pp. 053106-1 -053106-16, WOS:000344590600006

**Citata în**:

* "A Novel Procedure for Quick Design of Off Grid PV Water Pumping Systems for Irrigation"ELEKTRONIKA IR ELEKTROTECHNIKA, ISSN 1392-1215, VOL. XX, NO. X, **2021** DOI: <https://doi.org/10.5755/j02.eie.28503>

**Lucrarea:**

"Observation of geometry induced doping in thin sii nano-grating layers"Tavkhelidze, A., Jangidzea, L., Mebonia, M., Skhiladze, G., Ursutiu, D., **Samoila, C.,** Taliashvili, Z., Nadaraiae, L. in Proceedings of the 6th International Conference on Crystalline Silicon Photovoltaics (SiliconPV 2016) Volume 92, August 2016, Pages 896–903; http://dx.doi.org/10.1016/j.egypro.2016.07.099 Accession Number: WOS:000387703900126 ISSN: 1876-6102

**Citata în:**

* "Substituted Hydroxyapatite, Glass, and Glass-Ceramic ThinFilms Deposited by Nanosecond Pulsed Laser Deposition (PLD)for Biomedical Applications: A Systematic Review"Teghil ,R., Curcio, M., \* De Bonis, A. in Coatings 2021, 11, 811. <https://doi.org/10.3390/coatings11070811>

**Lucrarea:**

Ursutiu, D **; Samoila, C ;** Dragulin, S ; Constantin, FA; "Investigation of music and colours influences on the levels of emotion and concentration"ONLINE ENGINEERING & INTERNET OF THINGS Edited by:Auer, ME; Zutin, DG Book Series: Lecture Notes in Networks and Systems Volume: 22 Pages: 910-918 DOI: 10.1007/978-3-319-64352-6\_85 Published: 2018 Document Type: Proceedings Paper Accession Number: WOS:000456875500084 ISBN:978-3-319-64352-6; 978-3-319-64351-9 ISSN: 2367-3370 eISSN: 2367-3389

**Citata în:**

* "How Can Flowers and Their Colors Promote Individuals’ Physiological and Psychological States during the COVID-19 Lockdown?" Xie, J,. Liu, B., Elsadek, M in International Journal of Environmental Research and Public Health 2021, vol.18, 10258. <https://doi.org/10.3390/ijerph18191025>

**Lucrarea:**

Improve VLC LiFi Performance for V2V Communication" **.** In: Auer M., Ram B. K. (eds) Cyber-physical Systems and Digital Twins. REV2019 2019. Lecture Notes in Networks and Systems, vol 80. Springer, Cham. https://doi.org/10.1007/978-3-030-23162-0\_29 First Online 11 July 2019 DOI https://doi.org/10.1007/978-3-030-23162-0\_29 Print ISBN 978-3-030-23161-3 Online ISBN 978-3-030-23162-0 eBook Packages Intelligent Technologies and Robotics

**Citata în:**

* Optical Camera Communication in Vehicular Applications: A Review 2021in IEEE Transactions On Intelligent Transportation Systems pp.1-22, Print ISSN: 1524-9050 Electronic ISSN: 1558-0016 DOI: 10.1109/TITS.2021.3086409,m Publisher: IEEE

**Lucrarea:**

" Nanograting layers of Si" Nanotechnology , Volume: 31 Issue: 3 Article Number: 035301 DOI: 10.1088/1361-6528/ab4889 Published: JAN 17 2020Accession Number: WOS:000501840300001 , PubMed ID: 31560345 ,ISSN: 0957-4484 eISSN: 1361-6528 **Samoila, C**., Ursutiu, D., Tavkhelidze, A Jangidze, L.,Taliashvili, Z.,Skhiladze,G., Tierean,M

**Citata în:**

* "G-Doping-Based Metal-Semiconductor Junction" Tavkhelidze, A., Jangidze,L., Taliashvili, Z., Gorji, N. in Coatings 2021, 11(8), 945; https://doi.org/10.3390/coatings11080945 ISSN: 2079-6412ISSN: 2079-6412

**Citata în:**

* “Which Metal Nanoparticles Should be Used to Improve the Efficiency of Silicon Thin-Film Solar Cells? Li Hailong, Yang Shengyi, Zhang Zhenheng,, Hu Jinming, Jiang Yurong,Tang Libin in Laser and Optoelectronics Progress vol. 58 Issue 17 2021

**Lucrarea:**

**"**Correlations Determined by Remote Experiment Used for Knowledge Transfer" IEEE Transactions on Education Volume: 64, Issue: 1,pp 18-23 Feb. 2021Print ISSN: 0018-9359 Electronic ISSN: 1557-9638 DOI: 10.1109/TE.2020.2999500 Accession Number: WOS:000615036300003

**Citata în:**

* "Transfer of a scientific concept in the field of renewable energy with a creative group work"ISBN-978-1-6654-0300-9/21/$31.00 ©2021 IEEE- DOI: 10.1109/RI2C51727.2021.9559781

prof.univ.dr.ing**.Anca Duță:**

In 2021 sunt inregistrate **287 de citari** in jurnale ISI (total citari: 2230 ale celor 202 publicatii in jurnale indexate ISI-clarivate) (h = 28);

prof.univ.dr.ing.**Roșca Ioan Calin:**

Articolul „Acoustic properties for composite materials based on alfa and wood fibers” a fost citat de două ori:

* Natural fiber alfa/epoxy randomly reinforced composite mechanical properties identification - [Helaili, S](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/11568946).; [Chafra, M](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/2442020).; [Chevalier, Y](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/30408219)., STRUCTURES, Volume 34, Page 542-549, DOI 10.1016/j.istruc.2021.07.095, Published DEC 2021 (WOS:000701746600002)
* Eco-Sustainable Wood Waste Panels for Building Applications: Influence of Different Species and Assembling Techniques on Thermal, Acoustic, and Environmental Performance - [Merli, F](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/40473150).; [Belloni, E](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/35860585).; [Buratti, C](https://www-webofscience-com.am.e-nformation.ro/wos/author/record/30512032).; BUILDINGS, Volume 11, Issue 8, Article Number 361, DOI 10.3390/buildings11080361, Published AUG 2021 (WOS:000688791900001)

prof.univ.dr.ing**.Vlase Sorin:**

**262 citari in anul 2021 in Web of Sciencex. Indice Hirsh 22**

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**Moldovan M**., Rusea I**., Visa I**., Optimising the thickness of the water layer in a triangle solar thermal collector, Renewable Energy, 173, 381-388, 2021,

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* Ostergaard PA, Duic N, Noorllahi Y, Kalogirou SA, Recent advances in renewable energy technology for the energy transition, RenewableEnergy, 179, 877-884, 2021
* Kilkis S, Krajacic G, Duic N, Rosen MA, Al-Nimr MA, Accelerating mitigation of climate change with sustainable development of energy, water and environment systems, Energy Conversion and Management, 245, 2021
* **Vișa I., Moldovan M., Duță A**., Experimental Performance Assessment of Vertically Installed Solar Thermal Collectors, Journal of Sustainable Development of Energy, Water and Environment Systems, 8(4), 692-700, 2020.în :
* Ostergaard PA, Duic N, Noorllahi Y, Kalogirou SA, Recent advances in renewable energy technology for the energy transition, RenewableEnergy, 179, 877-884, 2021.

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**Visa I.** and **Moldovan M**., Energy Efficient Built Environment of the R&D Institute of the Transilvania University of Brasov Romania, 2020 7th International Conference on Energy Efficiency and Agricultural Engineering (EE&AE), Ruse, 1-4, 2020,

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* Angalaeswari S, Somyak M, Sabuja SP, Komal S, Parandhaman B, Natrayan L, Prabhu P, Energy Auditing for Efficient Planning and Implementation in Commercial and Residential Buildings, Advances in Civil Engineering, 2021.

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**Citată în :**

* Ostergaard PA, Duic N, Noorllahi Y, Kalogirou SA, Recent advances in renewable energy technology for the energy transition, RenewableEnergy, 179, 877-884, 2021;

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**Vișa I., Moldovan M., Duță A**., Novel triangle flat plate solar thermal collector for facades integration, Renewable Energy, 143, 252-262, 2019,

**Citată in:**

* Bezaatpour M, Rostamzadeh H, Simultaneous energy storage enhancement and pressure drop reduction in flat plate solar collectors using rotary pipes with nanofluid, Energy and Buildings, 239, 2021
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**Vișa I., Duță A., Moldovan M**., Outdoor performance of a trapeze solar thermal collector for facades integration, Renewable Energy, 137,37-44, 2019

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* Ahmadi A., Ehyaei M. A., Doustgani A., Assad M. E. H., Hmida A., Jamali D. H., Razmjoo A, Recent residential applications of low-temperature solar collector. Journal of Cleaner Production, 279, 123549, 2021
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**Moldovan M., Vișa I., Duță A**., Enhanced sustainable cooling for low-energy office buildings in continental temperate climate, DOI: 10.1061/(ASCE)EY.1943-7897.0000485, ASCE’s Journal of Energy Engineering, 143 (5), 1-12, 2017,

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* Li L, Sun W, Hu W, & Sun Y, Impact of natural and social environmental factors on building energy consumption: Based on bibliometrics. Journal of Building Engineering, 102136, 2021
* Li, D., Wang, Q., Lin, P., & Chen, Y, Analysis of the Heat-Flux Characteristics of the Turbulent Boundary Layer in the Trombe Wall. Journal of Energy Engineering, 147(6), 04021052, 2021
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* Fattahi A, The effect of cross-section geometry on the performance of a solar nanofluid heater in a parabolic solar receiver: A comparison study. Journal of the Taiwan Institute of Chemical Engineers, 2021;

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* Niyaz H. M., Kumar M., Gupta R, Estimation of module temperature for water-based photovoltaic systems. Journal of Renewable and Sustainable Energy, 13(5), 053705, 2021;

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**Visa I**. and **Moldovan M**., Energy Efficient Built Environment of the R&D Institute of the Transilvania University of Brasov Romania, 2020 7th International Conference on Energy Efficiency and Agricultural Engineering (EE&AE), Ruse, 1-4, 2020,

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* Chobanov V., Bojkov K, Evaluation of Economic and Social Effects of Integrating a BMS System in Residential and Commercial Housing. In 2021 5th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT) 74-77, IEEE, 2021;

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**4.3. Citări in reviste indexate BDI.**

**Lucrarea citată :**

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**Citată în:**

* "Summary of over Fifty Years with Brain-Computer Interfaces -A

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**Samoila, C.,** Ursutiu, D., y Jinga, V**.,** The correlation between concepts of resilience and remote experiment in education**,** https://doi.org/10.1007/978-3-319-73204-6\_10, Adv. Intell. Syst. Comput., 716, 71-78 (2018) [Links],

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* “Programa “Libremente Creativos” como estrategia de docencia en línea en tiempo de pandemia”Inf. Tecnol. vol.32 no.4 La Serena ago.2021ISSN 0718-0764 <http://dx.doi.org/10.4067/S0718-07642021000400013>;

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Internet accessible remote laboratories: scalable e learning tools for engineering and science disciplines" Editor Abul Azad ISBN 1613501870, 9781613501870 OCLC Number: 785855730;(**Samoilă C.**

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* “Design and implementation of virtual laboratory for a microgrid with renewable energy sources"Guo,L.Vengalil,M. Moiz, N., Abdul, M., K Wang,K.https://onlinelibrary.wiley.com/journal/10990542 in Computer Application in Engineering Education, ISSN:1099-0542, 2021;

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* Moravej M, An Experimental Study of the Performance of a Solar Flat Plate Collector with Triangular Geometry, Journal of Solar Energy Research, 6(4), 923-936, 2021;
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* Zhang R, The Model to Determine the Location and the Date by the Length of Shadow of Objects for Communication Networks. In: Gupta D., Khanna A., Bhattacharyya S., Hassanien A.E., Anand S., Jaiswal A. (eds) International Conference on Innovative Computing and Communications. Advances in Intelligent Systems and Computing, 1166. Springer, Singapore, 2021

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* Jebaraj S., Al-Qahtani A. M, A review on solar flat plate collectors. International Journal of Global Energy Issues, 43(2-3), 114-134, 2021
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**Citată în :**

* Bahrami M. R, Zero Energy Buildings: Systematic Literature Review, enerXiv Preprints,2021
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**4.5.Citări in lucrări publicate in proceedings-uri ale conferințelor internaționale.**

**Lucrarea citată:**

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* Chopra K, Pathak PH, Samykano M, Tyagi VV, Pandey AK, Recent Advancements in Design of Flat Plate Solar Collectors, IOP Conference Series: Materials Science and Engineering, 2021

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* Chopra, K., Pathak, P. K., Samykano, M., Tyagi, V. V., & Pandey, A. K, Recent Advancements in Design of Flat Plate Solar Collectors. In IOP Conference Series: Materials Science and Engineering (Vol. 1127, No. 1, p. 012007). IOP Publishing, 2021;

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***5. Cărți publicate***

**5.1.Singur autor, autor principal, coautor**:

* Discursul de recepție al prof.univ.dr.ing.Ioan Curtu DHC, intitulat ”Fascinația lemnului și a structurilor din lemn”, carte apărută în Ed. AGIR în anul 2021.

**5.2.Capitole in monografii naționale, internaționale.**

* **Duță A***.,* Covei M., Bogatu C., Perniu D., ”TiO2-copper zinc tin sulfide (CZTS) photocatalytic thin films for up-scalable wastewater treatment”, in Materials Science in Photocatalysis (Ed. L. Plamisano, Elisa Garcia Lopez, Elsevier, 2021;
* Monografia ”Personalități reprezentative ale ingineriei materialelor din Romania”, Editura AGIR 2021, coautor Filiala Brașov (**SamoilăCornel** );

**6. Premii si promovări**

* Premiul Remus Radulet al ASTR pentru volumul: **Vișa I., Duță A*.,*** **Moldovan M**., Burduhos B.G., Neagoe M., Solar Energy Conversion Systems in the built environment, Springer (Energy Series), 2020;
* Promovări: de la calitatea de membru corespondent la cel de titular al ASTR**: Vlase Sorin** și **Giacomelli Ioan.**

**7. Reprezentanți in Comitete Știintifice ale Conferințelor Internaționale**

**prof.univ.em.dr.ing.Samoila Cornel**

* Membru in International Advisory Board REV-2021- Conference-03-03 Februarie - Hong-Kong (online Conference);
* Membru in International Program Committee ICL-2021 Conference Dresden-Germany
* Membru in Comitetul Stiintific al Conferintei IMCL-2021 –Salonic -Grecia

**conf.univ.dr.ing.Macedon Moldovan**

* Membru in Comitetul Stiintific al 1st IFToMM for Sustainable , Development Goals online Workshop November 25-26, 2021, organizat de International Federation for the Promotion of Mechanism and Machine Science Italy, http://www.iftommitaly.it/i4sdg2021/index.php?id=about

**Prof.univ.em.dr.ing.DHC Vișa Ioan**

* Membru in Comitetul stiintific al Conferinței „Zilele Academiei de Științe Tehnice din România” 2021, „Inter și Transdisciplinaritate în Științele Inginerești și Tehnologie”, 2021;
* Membru in Scientific Advisory Board al Conferintei SDEWES 2021, 10-15 oct. Dubrovnik, Croatia.

**8. Membru in Comitete editoriale ale revistelor**

**Prof.univ.em.dr.ing.Samoila Cornel**

* Membru in corpul de evaluatori ai revistei “Materials” -ISI cu  **IF =** **3.623;**
* Membru in Colegiul de Redactie al Revistei “Metalurgia International”revista ISI pana in 2013, BDI actualmente;
* Membru in colegiul de redacție al revistei internaționale iJIM [;](http://online-journals.org/index.php/i-jim/index)
* Guest Editor pentru Special Issue: „Collection of Papers in Materials Science from Romania” la revista Materials in 2021- 8 lucrari dintre care 5 deja publicate.

**Prof.univ.dr.ing.Anca Duță**

* Membru in Editorial Board of *Journal of Environmental Engineering and Management (EEMJ).*

**9. Activitate la doctorat**

**91.Îndrumare doctoranzi:**

**prof.univ.em.dr.ing.Samoila Cornel**

* Are in stagiu 2 doctoranzi, unul se ocupă de grafene, caracterizarea lor cu zgomote electronice și folosirea la fabricarea de senzori, iar al doilea se ocupă de masurarea duratei de rupere a oțelurilor folosind zgomotele Barkhausen.

**prof.univ.dr.ing.Anca Duță**

* Indurmare a 2 doctoranzi dintre care unul (Ioana Tismanar) a finalizat teza in 2021 (titlul tezei: Materiale solar-active pentru degradarea poluantilor organici din apa).

**prof.univ.dr.ing.Roșca Ioan Călin**

* 4 doctoranzi în stagiu.

**prof.univ.dr.ing.Vlase Sorin**

* 3 doctoranzi in stagiu.

**prof.univ.em.dr.ing.DHC.Vișa Ioan**

* doctoranda Ioana Denisa RUSEA, înmatriculată în 2019. Susținere referat de cercetare prevăzut pentru anul II de doctorat;
* doctoranda Claudia Antonia BOLOZAN, înmatriculată în 2020. Susținere examene de specialitate;
* doctorand Alexandru Constantin PATROLEA, înmatriculat în 2020. Susținere examene de specialitate.

9**.2.Membru in comisii de analiză și susținere publică de teze de doctorat:**

**prof.univ.dr.ing.Roșca Ioan Calin**

* 3 comisii;

**prof.univ.dr.ing.Vlase Sorin:**

* Membru in patru comisii de analiză și susținere publică.

**prof.univ.dr.ing.DHC.Gheorghe-Alexandru Radu:**

* Membru în Comisia de analiză și susținere publică a tezei de abilitare ( 8 noiembrie 2021) intitulată : ***„ Studii și cercetări privind performanțele sistemelor termice și optimizarea acestora “*** la Universitatea Tehnică **„Gheorghe Asachi“** din Iași, realizată de conf. dr. ing. Dan-Teodor Bălănescu.

**prof.univ.dr.ing.Giacomelli Ioan:**

* Teza cu titlul ” Îmbunătățirea performanțelor oțelurilor inoxidabile înalt aliate prin tratamente termice”, finalizată și susținută public **, Giacomelli Ioan** in calitate de conducător științific;

**9.3.Membru in comisii de îndrumare și control a activității de** **doctorat.**

**prof.univ.dr.ing.Vlase Sorin**

* Membru in doua comisii de indrumare si control

**prof.univ.dr.ing.Anca Duță**

* Conducator de doctorat pentru Gheorghița Silvioara si Ioana Tismanar (a finalizat in 2021);
* Membru in comisia de îndrumarea drd. Popa Nicoleta (cond. Prof. dr. Maria Vișa, a finalizat in 2021).

**conf.univ.dr.ing.Macedon Moldovan**

* doctoranda Ioana Denisa RUSEA, înmatriculată în 2019 sub îndrumarea d-lui Prof. em. dr. ing. DHC Ion VIȘA
* doctoranda Claudia Antonia BOLOZAN, înmatriculată în 2020 sub îndrumarea d-lui Prof. em. dr. ing. DHC Ion VIȘA
* doctorand Alexandru Constantin PATROLEA, înmatriculat în 2020 sub îndrumarea d-lui Prof. em. dr. ing. DHC Ion VIȘA

**10.Brevete de invenție**

**10.1.Brevete propuse in 2021.**

* Covei M., Perniu D., Bogatu C., **Duță A***.,* Straturi subțiri compozite pe bază de oxid de zinc și oxid de grafenă, cu proprietăți de autocurățare fotocatalitică și metoda de obținere a acestora (cerere depusa in 22.10.2021);
* **Duță A***.,* Bogatu C., Perniu D., Covei M., Gheorghița S., Straturi subtiri compozite pe baza de oxid de zinc si oxid de grafena cu proprietati de autocurățare fotocatalitică si metoda de obținere a acestora, Cere nr. a2021 00213.

**11. Alte activități**

* prof.univ.em.dr.ing.**Samoilă Cornel**: activități încadrul Secției Știința și Ingineria Materialelor, în calitate de vicepreședinte și președinte al Filialei Brașov;
* prof.univ.em.dr.ing.DHC**.Radu Gheorghe-Alexandru**: activități în cadrul Secției Ingineria Transporturilor, in calitate de vicepreședinte și vicepreședinte al Filialei Brașov ;
* prof.univ.dr.ing.**Giacomelli Ioan**: activitate in cadrul Filialei Brașov a ASTR in calitate de secretar.

Întocmit

Prof.univ.em.dr.ing.Cornel Samoilă

Președintele Filialei Brașov a ASTR

Prof.univ.dr.ing.Ioan Giacomelli

Secretar al Filialei Brașov a ASTR

Brașov,decembrie 2021

Se ataseaza raoartele Cercurilor: