

Universitatea *Transilvania* din Braşov
 Facultatea Design de Produs şi Mediu
 Departamentul Design de Produs,
 Mecatronică şi Mediu

Poz. postului 42

Disciplinele postului Implementarea SER în mediul construit, Implementarea sistemelor de energii regenerabile, Sisteme solar-termice, Conversie geotermală/Geothermal Energy Conversion, Sisteme de energii regenerabile pentru producerea de energie termică I (sisteme geotermice şi biomasă)/Renewables for thermal energy production I (geothermal and biomass systems)

FIŞA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR UNIVERSITĂŢII CONFERENŢIAR UNIVERSITAR, poziţia 42

publicat în Monitorul Oficial al României nr. **569** din data de **28.04.2017**

Candidat: **MOLDOVAN Macedon-Dumitru** Data naşterii **10.12.1972**

Funcţia actuală **Şef lucrări** Instituţia **Universitatea Transilvania din Braşov**

1. Studii universitare (licenţă şi masterat)

Nr. crt.	Instituţia de învăţământ superior şi facultatea	Domeniul	Perioada	Titlul acordat
1	Universitatea Transilvania din Braşov, Facultatea de Mecanică	Inginerie Mecanică	01.10.1991 15.07.1996	Inginer
2	Universitatea Transilvania din Braşov, Facultatea de Mecanică	Inginerie Mecanică	01.10.1996 15.07.1997	Master
3	Universitatea Transilvania din Braşov, Facultatea de Construcţii	Ingineria Instalaţiilor	01.10.2007 15.07.2009	Inginer
4	Universitatea Transilvania din Braşov, Facultatea de Construcţii	Inginerie Civilă	01.10.2009 15.07.2011	Master

2. Studii de doctorat

Nr. crt.	Instituţia organizatoare de doctorat	Domeniul	Perioada	Titlul ştiinţific acordat
1	Universitatea Transilvania din Braşov	Inginerie Mecanică	01.10.2009 30.09.2012	Doctor

3. Studii şi burse postdoctorale (stagii de cel puţin 6 luni)

Nr. crt.	Instituţia	Domeniul/ Specializarea	Perioada	Tipul de bursă
1	Universitatea Transilvania din Braşov	Inginerie Mecanică	15.04.2014 15.10.2015	Bursă postdoctorală

4. Realizările profesional-ştiinţifice

Calitatea activităţilor didactice/profesionale	Din Fişa de evaluare şi din Propunerea de dezvoltare a carierei universitare			
Lucrări publicate în reviste de specialitate recunoscute naţional	1. Moldovan M. , Visa I., Duta A., <i>Enhanced sustainable cooling for low-energy office buildings in continental temperate climate</i> , acceptată spre publicare în ASCE's Journal of Energy Engineering, 2017, <i>factor de impact 1,944</i> , scor relativ de influenţă 0,853 2. Visa I., Moldovan M. , Comsit M., Neagoe M., Duta A., <i>Facades integrated</i>			

<p>internațional</p>	<p><i>solar-thermal collectors – challenges and solutions</i>, Energy Procedia, 112, 176-185, 2017, jurnal ISI</p> <p>3. Visa I, Burduhos B. G., Neagoe M., Moldovan M. D., Duta A., <i>Comparative analysis of the infield response of five types of photovoltaic module</i>, Renewable Energy, 95, 178-90, 2016, factor de impact 3,404, scor relativ de influență 1,713</p> <p>4. Visa I., Cotorcea A., Neagoe M., Moldovan M., <i>Adaptability of solar energy conversion systems on ships</i>, IOP Conference Series: Materials Science and Engineering, 147 (1), 012070, 1-12, 2016</p> <p>5. Visa I., Cotorcea A., Moldovan M., Neagoe M., <i>Two degrees of freedom parallel linkage to track solar thermal platforms installed on ships</i>, IOP Conf. Series: Materials Science and Engineering, 147 (1), 012071, 1-10, 2016</p> <p>6. Visa I., Duta A., Comsit M., Moldovan M. D., Ciobanu D., Saulescu R., Burduhos B. G., <i>Design and experimental optimization of a novel flat plate solar thermal collector with trapezoidal shape for facades integration</i>, Applied Thermal Engineering, 90, 432-443, 2015, factor de impact 3,043, scor relativ de influență 1,972</p> <p>7. Moldovan M., Visa I., Neagoe M., <i>Optimising the Strokes and Loads of the Linear Actuators in a Two Degrees of Freedom Linkage Used in Solar Tracking Systems</i>, Proceedings of the 14th IFToMM World Congress, Taipei, Taiwan, 563-572, 2015</p> <p>8. Visa I., Neagoe M., Moldovan M., <i>Algorithm for Structural Synthesis of Planar Mechanisms as Multibody Systems</i>, Proceedings of the 14th IFToMM World Congress, Taipei, Taiwan, 505-514, 2015</p> <p>9. Cotorcea A., Visa I., Moldovan M. D., Ristea M., <i>Performance assessment of solar thermal collectors in various sea states</i>, Mircea cel Batran Naval Academy Scientific Bulletin, 18 (1), 173-176, 2015</p> <p>10. Visa I., Moldovan M., Comsit M., Duta A., <i>Improving the Renewable Energy Mix in a Building Towards the Nearly Zero Energy Status</i>, Energy and Buildings, 68, 72-78, 2014; factor de impact 2,884, scor relativ de influență 2,099;</p> <p>11. Visa I., Comsit M., Moldovan M., Duta A., <i>Outdoor simultaneous testing of four types of photovoltaic tracked modules</i>, Journal of Renewable and Sustainable Energy 6, 033142 1-12, 2014; factor de impact 0,904, scor relativ de influență 0,446;</p> <p>12. Moldovan M. D., Visa I., Neagoe M., Burduhos B. G., <i>Solar heating & cooling energy mixes to transform low energy buildings in nearly zero energy buildings</i>, Energy Procedia, 48, 924-937, 2014, jurnal indexat ISI</p> <p>13. Neagoe M., Visa I., Burduhos B. G., Moldovan M. D., <i>Thermal load based adaptive tracking for flat plate solar collectors</i>, Energy Procedia, 48, 1401-1411, 2014, jurnal indexat ISI</p> <p>14. Visa I., Neagoe M., Moldovan M. D., Comsit M., <i>Structural Synthesis of Parallel Linkages by Multibody Systems Method</i>, Applied Mechanics and Materials, 658, 153-158, 2014</p> <p>15. Neagoe M., Visa I., Cretescu N., Moldovan M. D., <i>On a New Parallel Tracking System for Accurate Orientation of Concentrated Solar Convertors</i>, Applied Mechanics and Materials 658, 105-110, 2014</p> <p>16. Moldovan M. D., <i>Mixuri de energii regenerabile pentru agricultura sustenabila</i>, Lucrările celei de-a VIII-a Ediții a Conferinței Anuale a ASTR, Secțiunea Energie durabilă, Editura AGIR, 356-362, 201</p> <p>17. Moldovan M., Visa I., Duta A., <i>The Influence of Thermal Zoning on the</i></p>
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	<p><i>Thermal Comfort and Energy Consumption in Low Energy Office Buildings</i>, Proceedings of the 45th International Congress & Exhibition on Heating, Refrigeration and Air Conditioning, Belgrad, Serbia, 2014;</p> <p>18. Visa I., Diaconescu D., Moldovan M., <i>A New Solar Tracking Linkage with 2 Actuators in Parallel Connected</i>, The 2nd IFToMM Asian Conference on Mechanism and Machine Science, Tokyo, Japan, 2012;</p> <p>19. Moldovan M., Visa I., Burduhos B., 2011, <i>Energetic Autonomy for a Solar House</i>, Environmental Engineering and Management Journal, Vol.10, No.9, 1283-1290, Gheorghe Asachi Technical University of Iasi, Romania 2011; factor de impact 1,004;</p> <p>20. Burduhos B., Toma C., Neagoe M., Moldovan M., <i>Pseudo-Equatorial Tracking Optimization for Small Photovoltaic Platforms</i>, Environmental Engineering and Management Journal, Vol. 10, No. 8, 1059-1068, Gheorghe Asachi Technical University of Iasi, Romania 2011; factor de impact 1,004;</p> <p>21. Moldovan M., Visa I., Burduhos B., <i>Energy modeling of a single axis tracked string PV system from a hybrid RES</i>, Proceedings of 26th European Photovoltaic Solar Energy Conference and Exhibition, 3804-3807, Hamburg, Germany, 2011;</p> <p>22. Schaletchi I., Visa I., Velicu R., Moldovan M., <i>Torsion Moment from Wind Action on PV Platforms</i>, Proceedings of 26th European Photovoltaic Solar Energy Conference and Exhibition, 3556-3559, Hamburg, Germany, 2011;</p> <p>23. Moldovan M., Visa I., Duta A., <i>Energetic Monitoring And Optimization Of A Solar House</i>, Bulletin of the Transilvania University of Brasov, Vol. 3 (52), Series I: Engineering Sciences, 91-98, Brasov, Romania, 2010;</p> <p>24. Moldovan M., Boian I., <i>Heat Pump Operation & Data Collection</i>, Proceedings of Sixth International Conference Mechanics And Machine Elements, 261-270, Sofia, Bulgaria, 2010</p> <p>25. Boian I., Șerban A., Moldovan M., Chiriac F., <i>Laborator pompe de căldură</i>, Proceedings of 19th Conference Installation for Building and the Ambiantal Confort, 135-144, Timișoara, România, 2010.</p> <p>26. Dombi V., Visa I., Moldovan M., Burduhos B., <i>Step orientation system for a solar thermal platform</i>, Proceedings of 6th International Symposium Shape, Mechanical And Industrial Design Of Products In Mechanical Engineering Kod 2010, 265-268, Palic, Serbia, 2010; indexat ISI</p> <p>27. Dombi V., Moldovan M., Boian I., Visa I., <i>Thermal comfort in an office room</i>, Proceedings of 10th REHVA world congress Clima 2010 Sustainable Energy Use in Buildings, 307-308, Antalya, Turkey, 2010;</p> <p>28. Boian I., Șerban A., Moldovan M., Chiriac F., <i>Heat Pump Laboratory</i>, Proceedings of 1st International Conference on Manufacturing Engineering, Quality And Production Systems (MEQAPS'09), 136-141, Brasov, Romania, 2009; indexat ISI</p> <p>29. Boian I., Moldovan M., <i>Energy Efficient Operation of the Open Loop Heat Pump Systems</i>, Bulletin of the Transilvania University of Brașov, Vol. 2 (51), Series I: Engineering Sciences, 361-370, Brașov, România, 2009.</p>
<p>Lucrări prezentate la conferințe naționale/ internaționale în profilul postului</p>	<p>1. <i>Infield Output of a New Solar-Thermal Façade with Increased Architectural Acceptance</i>, TechConnect World Innovation Conference, Washington, USA, 2017; http://www.techconnectworld.com/World2017/tuesday.html</p> <p>2. <i>Experimental evaluation of the efficiency of Photovoltaic / Thermal (PVT) modules implemented in the built environment</i>, First International Conference on Building Integrated Renewable Energy Systems, BIRES</p>

	<p>2017, Dublin, Ireland, 2017; http://dit.ie/dublinenergylab/media/ditsustainability/documents/del/provisional%20schedule%20of%20events%20BIRES%202017.pdf</p> <p>3. <i>Outdoor performance of a trapeze solar-thermal collector for facades integration</i>, First International Conference on Building Integrated Renewable Energy Systems, BIRES 2017, Dublin, Ireland, 2017; http://dit.ie/dublinenergylab/media/ditsustainability/documents/del/provisional%20schedule%20of%20events%20BIRES%202017.pdf</p> <p>4. <i>Optimizing the Opaque to Glazed Ratio in Office Buildings to Increase the Solar Fraction in the Sustainable Energy Mix</i>, 11th International Conference on Solar Energy for Buildings and Industry EuroSun 2016, Palma de Mallorca, Spain, 2016; http://www.eurosun2016.org/</p> <p>5. <i>Two degrees of freedom tracking system for solar thermal platforms installed on ships</i>, 7th International Conference on Advanced Concepts in Mechanical Engineering ACME 2016, Iasi, Romania, 2016; http://iopscience.iop.org/issue/1757-899X/147/1;jsessionid=1519F16071244D1AF85E4C8BCCD8B979.c1.iopscience.cld.iop.org</p> <p>6. <i>Adaptability of solar energy conversion systems on ships</i>, 7th International Conference on Advanced Concepts in Mechanical Engineering ACME 2016, Iasi, Romania, 2016, http://iopscience.iop.org/issue/1757-899X/147/1;jsessionid=1519F16071244D1AF85E4C8BCCD8B979.c1.iopscience.cld.iop.org</p> <p>7. <i>Renewable energy systems for agricultural buildings</i>, Sixth International Conference on Energy Efficiency and Agricultural Engineering, Ruse, Bulgaria, 2015; http://eeae-conf.uni-ruse.bg/openconf.php</p> <p>8. <i>Optimising the Strokes and Loads of the Linear Actuators in a Two Degrees of Freedom Linkage Used in Solar Tracking Systems</i>, 14th IFToMM World Congress, Taipei, Taiwan, 2015; www.iftomm2015.tw/IFTToMM2015CD/PDF/OS16-009.pdf</p> <p>9. <i>Decreasing the Cooling Load in Low Energy Buildings by Natural Night Ventilation</i>, World Renewable Energy Congress WREC XIV, Bucuresti, Romania, 2015; http://www.wrec.ro/program/</p> <p>10. <i>The Influence of Thermal Zoning on the Thermal Comfort and Energy Consumption in Low Energy Office Buildings</i>, 45th International Congress & Exhibition on Heating, Refrigeration and Air Conditioning, KHG 2014, Belgrad, Serbia; http://kongres.kgh-kongres.rs/index.php/en/</p> <p>11. <i>Towards nZEB—Sustainable Solutions to Meet Thermal Energy Demand in Office Buildings</i>, 4th Conference on Sustainable Energy, CSE 2014, Brasov, Romania; http://www.unitbv.ro/icdt/Evenimente/CSE.aspx</p> <p>12. <i>Architecturally Integrated Multifunctional Solar-Thermal Façades</i>, 4th Conference on Sustainable Energy, CSE 2014, Brasov, Romania; http://www.unitbv.ro/icdt/Evenimente/CSE.aspx</p> <p>13. <i>Tracking algorithms for solar energy conversion systems: comparative analysis</i>, 29th European Photovoltaic Solar Energy Conference and Exhibition, EUPVSEC 2014, Amsterdam, Netherlands; https://www.photovoltaic-conference.com;</p> <p>14. <i>Using A Heat Pump – Photovoltaic System To Transform A Low Energy Building Into A Nearly Zero Energy Building</i>, International Conference on Solar Energy and Buildings, EuroSun 2014, Aix les Bains, France, http://www.eurosun2014.org/cms/home.html</p> <p>15. <i>Sustainable and Affordable Energy Mixes for Nearly Zero Energy</i></p>
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	<p><i>Buildings</i>, World Renewable Energy Congress, WREC 2014, London, Great Britain, http://www.wrenuk.co.uk</p> <p>16. <i>Improving The Efficiency In Low Energy Office Buildings Through Thermal Zoning Optimization An Experimental Aproach</i>, World Renewable Energy Congress, WREC 2014, London, Great Britain, http://www.wrenuk.co.uk</p> <p>17. <i>Increasing the efficiency of facade integrated solar thermal collectors by using single-axis tracking systems</i>, World Renewable Energy Congress, WREC 2014, London, Great Britain, http://www.wrenuk.co.uk</p> <p>18. <i>Structural Synthesis of Parallel Linkages by Multibody Systems Method</i>, 6th International Conference Advanced Concepts In Mechanical Engineering, ACME 2014, Iasi, Romania, http://www.mec.tuiasi.ro/acme2014</p> <p>19. <i>On a New Parallel Tracking System for Accurate Orientation of Concentrated Solar Convertors</i>, 6th International Conference Advanced Concepts In Mechanical Engineering, ACME 2014, Iasi, Romania, http://www.mec.tuiasi.ro/acme2014</p> <p>20. <i>Steps to transform a Low Energy Building towards the Nearly Zero Energy status</i>, ESEIA-IGS Conference Smart and Green Transitions in Cities / Regions, 2014, Twente, Netherlands, http://www.utwente.nl/igs/eseia/</p> <p>21. <i>Mixuri de energii regenerabile pentru agricultura sustenabilă</i>, Conferința Energii regenerabile și soluții de aplicare a lor în agricultură, Asociația Generală a Inginerilor din România, București, România, 2014, http://www.agir.ro/stiri/conferinta-energiile-regenerabile-si-solutii-de-aplicare-a-lor-in-agricultura_344.html</p> <p>22. <i>Four-Bar Linkages with Linear Actuators Used for Solar Trackers with Large Angular Diurnal Strokes</i>, The 11th IFToMM International Symposium on Science of Mechanisms and Machines, SYROM 2013, Brasov, Romania, http://www.arotmm.ro/syrom2013</p> <p>23. <i>Renewable Energy Mixes For Sustainable Agrosystems</i>, The VIIIth Edition of the Annual Conference the Academic Days of the Academy of Technical Sciences in Romania – Products and Technologies for Sustainable Development, 2013, Braşov, România, http://www.proceedings.agir.ro/numar_revista.php?id=103</p> <p>24. <i>Sustainability of a String Type Photovoltaic Platform Intended to Ensure the Nearly Zero Energy Status for a Solar House</i>, 28th European Photovoltaic Solar Energy Conference and Exhibition, EUPVSEC 2013, Paris, France; https://www.photovoltaiic-conference.com;</p> <p>25. <i>Experimental Study on the Influence of Solar Tracking Algorithms on Temperature and Conversion Efficiency of Si-Polycrystalline PV</i>, 28th European Photovoltaic Solar Energy Conference and Exhibition, EUPVSEC 2013, Paris, France; https://www.photovoltaiic-conference.com;</p> <p>26. <i>Efficiency Analysis for Four Different Types of PV Modules by Using an Outdoor Tracked Platform</i>, 28th European Photovoltaic Solar Energy Conference and Exhibition, EUPVSEC 2013, Paris, France; https://www.photovoltaiic-conference.com;</p> <p>27. <i>Solar Heating & Cooling Energy Mixes to Transform Low Energy Buildings in Nearly Zero Energy Buildings</i>, International Conference on Solar Heating and Cooling for Buildings and Industry, SHC 2013, Freiburg, Germany, http://www.shc2013.org/cms/welcome.html;</p> <p>28. <i>Thermal Load based Adaptive Tracking for Flat Plate Solar Collectors</i>, International Conference on Solar Heating and Cooling for Buildings and</p>
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	<p>Industry, SHC 2013, Freiburg, Germany, http://www.shc2013.org/cms/welcome.html;</p> <p>29. <i>Tailored Solutions to Reach the Nearly Zero Energy Building Status, The first International Conference 3E – Energy, Environment and Efficiency</i>, IWEED 2013, Galati Romania, http://www.iweee.ugal.ro/</p> <p>30. <i>Novel Tracking Systems for Increasing the Overall Efficiency of the Solar Energy Conversion</i>, The first International Conference 3E – Energy, Environment and Efficiency, IWEED 2013, Galati Romania, http://www.iweee.ugal.ro/</p> <p>31. <i>Sustainable Built Environment. A case study for a Solar House</i>, Computer Aided Process Engineering – Graz University of Technology, CAPE Forum 2013, Graz, Austria, http://cape2013.tugraz.at.</p> <p>32. <i>A New Solar Tracking Linkage with 2 Actuators in Parallel Connected</i>, The 2nd IFToMM Asian Conference on Mechanism and Machine Science November, 2012, Tokyo, Japan, http://www.jc-iftomm.org/Asian-MMS2012/</p> <p>33. <i>Energetic Autonomy for A Solar House</i>, The 3rd International Conference on Sustainable Energy, CSE 2011, Transilvania University of Braşov, România, 2011, http://unitbv.ro/cse.</p> <p>34. <i>Promoting The Concept Of Low Energy Building</i>, Cooperation in R&D&Innovation for Economic and Social Development in CBC Area Romania – Bulgaria INNOGATE 21, 2011, Giurgiu, România, http://www.innagate21.eu/resources/Newsletter/newsletter5.pdf.</p> <p>35. <i>Energy Modeling Of A Single Axis Tracked String PV System From A Hybrid RES</i>, 26th European Photovoltaic Solar Energy Conference and Exhibition, EUPVSEC 2011, Hamburg, Germany, http://www.photovoltaic-conference.com.</p> <p>36. <i>Torsion Moment From Wind Action On PV Platforms</i>, 26th European Photovoltaic Solar Energy Conference and Exhibition, EUPVSEC 2011, Hamburg, Germany, http://www.photovoltaic-conference.com.</p> <p>37. <i>Nearly Zero Energy Building with Hybrid PV-HP System</i>, Solar and Wind International Conference, SWIC 2011, Agigea, România, http://www.icpe.ro/ro/p/prezentari_swic_ro.</p> <p>38. <i>Solar Cooling At Transilvania University Of Brasov Assembly Hall And Library</i>, reprezentant al României la REHVA Student Competition, 10th REHVA World Congress - Sustainable Energy Use in Buildings, CLIMA 2010, Antalya, Turkey, http://www.clima2010.org.</p> <p>39. <i>Heat Pump Laboratory and Data Acquisition</i>, ASHRAE Danube Chapter Meeting, a 19-a Ediție a Conferinței cu participare internațională Instalații pentru construcții și confortul ambiental, 2010, Timișoara, România.</p> <p>40. <i>Thermal comfort in an office room</i>, 10th REHVA World Congress Clima 2010 Sustainable Energy Use in Buildings, 307-308, Antalya, Turkey, 2010, http://www.clima2010.org</p> <p>41. <i>Step orientation system for a solar thermal platform</i>, 6th International Symposium Shape, Mechanical And Industrial Design Of Products In Mechanical Engineering Kod 2010, 265-268, Palic, Serbia, 2010,</p> <p>42. <i>Solar Cooling at Transilvania University of Brasov Assembly Hall and Library</i>, lucrare declarată câștigătoare a locului I pe țară la REHVA Student Competition, a 44-a Conferință Națională Instalații pentru Începutul Mileniului Trei, 2009, Sinaia, România.</p> <p>43. <i>Heat Pump Performance Simulation for Braşov Climatic Conditions</i>, a 18-a Ediție a Conferinței cu participare internațională Instalații pentru</p>
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		<p>construcții și confortul ambiental, Timișoara, România, 02-04 Aprilie, 2009.</p> <p>44. <i>Heat Pump Laboratory</i>, 1st International Conference on Manufacturing Engineering, Quality And Production Systems MEQAPS 2009, Transilvania University of Brașov, Romania, http://www.wseas.us/conferences/2009/brasov/meqaps/.</p>
Volume de specialitate publicate edituri recunoscute internațional	de în	<ol style="list-style-type: none"> Vișa I., Comsit M., Duță A., Neagoe M., Moldovan M., Burduhos B., Perniu D., Enesca A., Isac L., Cosnita M., Totu I., Savvides I., Vassiliades C., <i>Novel Solar-Thermal Collectors/Array With Increased Architectural Acceptance For Building Integration</i>, Building Integration of Solar Thermal Systems Design and Applications Handbook, 373-391, COST Office, 2017; Moldovan M., Visa I., Duta A., <i>Future trends for solar energy use in nearly zero energy buildings</i>, Advances in Solar Heating and Cooling, 547-569, Elsevier, 2016; Visa I., Neagoe M., Moldovan M., <i>Structural synthesis of planar geared linkage mechanisms as multibody systems</i>, New advances in mechanisms mechanical transmissions and robotics, 99-106, Springer, 2016; Moldovan M., Visa I., Ciobanu I., <i>Towards nZEB—Sustainable Solutions to Meet Thermal Energy Demand in Office Buildings</i>, Sustainable Energy in the Built Environment - Steps Towards nZEB Springer Proceedings in Energy, 115-133, Springer, 2014 Comsit M., Visa I., Moldovan M. D., Isac L., <i>Architecturally Integrated Multifunctional Solar-Thermal Façades</i>, Sustainable Energy in the Built Environment - Steps Towards nZEB, 47-65, Springer, 2014 Moldovan M., Visa I., Saulescu R., Comsit M., <i>Four-Bar Linkages with Linear Actuators Used for Solar Trackers with Large Angular Diurnal Strokes</i>, The 11th IFToMM International Symposium on Science of Mechanisms and Machines, 411-423, Springer, 2014
Volume de specialitate publicate edituri recunoscute național	de în	<ol style="list-style-type: none"> Burduhos B. G., Moldovan M. D., <i>Controlul sistemelor de energii regenerabile</i>, Editura Universității Transilvania din Brașov, România, 2016 Visa I., Jaliu C, Duta A., Neagoe M., Comsit M., Moldovan M., Ciobanu D., Burduhos B., Saulescu R., <i>The Role of Mechanisms in Sustainable Energy Systems</i>, Editura Universității Transilvania din Brașov, România, 2015 Vătășescu M., Moldovan M., Burduhos B., <i>Sisteme Articulate pentru Orientare Solară</i>, Editura Universității Transilvania din Brașov, Brașov, România, 2011

Director de departament,
Prof. dr. ing. CRISTEA Luciana

Candidat,
Ș. L. dr. ing. MOLDOVAN Macedon-Dumitru

Indicatori specifici de evaluare, standarde minime post de conferențiar, domeniul Inginerie Mecanică, Mecatronică și Robotică

Criteriul CDI		Punctaj realizat	Observatii	Criteriul DID		Punctaj realizat	Observatii	Criteriul RIA		Punctaj realizat	Observatii
Indicatori cu contribuție principală (obligatorie) în criteriu											
Rezultate și comunicări publicate ca articole științifice (CDI-ART)	min. 60% din punctaj standard minimal	129.72		Manuale - suport curs, format tipărit sau format electronic (DID-MSD)	min. 60% din punctaj standard minimal	3.3		Management proiecte	min. 60% din punctaj standard minimal		
								a) Director grant național sau internațional, sau responsabil partener în consorțiu (RIA-GRA)		0.00	
								b) Director contracte cu beneficiari din mediul economic (RIA-CTR)		3.21	
Total		129.72	≥ 3 puncte	Total		3.30	≥ 3 puncte	Total		3.21	≥ 3 puncte
Indicatori cu contribuție complementară în criteriu											
a) Brevete de invenție (CDI- BRV)		1		a) Laboratoare / standuri pentru activități didactice (DID-LAB)		7		Activitate de cercetare – dezvoltare – inovare în cadrul granturilor / proiectelor			
b) Produse, tehnologii și servicii inovative (CDI- PTS)		0						a) Membru echipă grant național sau internațional, sau responsabil partener în consorțiu (RIA-GRA)		266.42	
c) Monografii de specialitate (CDI-MON)											
Monografie în editură de prestigiu din străinătate		2.47		b) Platforme informatice educaționale (DID -PIE)		0		b) Membru echipă contracte cu beneficiari din mediul economic (RIA-CTR)		1.00	
Monografie în editură națională		2.35									
Total		5.81		Total		7		Total		267.42	
Total criteriu		135.53	≥ 5 puncte	Total criteriu		10.30	≥ 5 puncte	Total criteriu		270.64	≥ 5 puncte

Director de departament,
Prof. dr. ing. Luciana CRISTEA

Candidat,
Ș.L. dr. ing. MOLDOVAN Macedon Dumitru

1. Criteriul CDI - Activitate de cercetare științifică, dezvoltare tehnologică și inovare

Indicatori CDI	Descriere	Punctaj	Observații Monitor Oficial	Punctaj realizat
Indicatori cu contribuție principală (obligatorie) în criteriu				
CDI-ART (min. 60% din punctaj standard minimal)	Articole științifice publicate în reviste de specialitate cotate ISI, sau în reviste/volume indexate ISI sau BDI	1 articol = = FI*articol + Σ FI*citare FI* = 0.1 + Factor Impact	- Factorul de impact corectat FI* ia în considerare articolele în publicații indexate BDI sau indexate ISI (fără factor de impact) prin valoarea de prag 0.1 - Se pot lua în considerare articolele cu FI* = 0, dar cu Σ FI*citare > 0 - Se exclud autocitățile	129.72
Indicatori cu contribuție complementară în criteriu				
CDI- BRV	Brevete de invenție	1 brevet de invenție internațional = 3 puncte 1 brevet de invenție național = 1 punct		1
CDI- PTS	Produse, tehnologii și servicii inovative			0
CDI-MON	Monografii de specialitate sau capitole în monografii de specialitate	1 punct = 10 pagini contribuție monografie în editură de prestigiu din străinătate 1 punct = 50 pagini contribuție editură națională	1. Edituri de prestigiu din străinătate: Elsevier, Springer, John Wiley & Sons, McGraw-Hill, CRC Press, Francis & Taylor, Oxford University Press, Cambridge University Press, Academic Press, Kluwer Academic Publishers 2. Monografiile naționale trebuie să fie incluse în depozitul legal al Bibliotecii Naționale	4.81
Total				135.53

Director de departament,
Prof. dr. ing. Luciana CRISTEA

Candidat,
Ș.L. dr. ing. MOLDOVAN Macedon Dumitru

1.1. CDI-ART - Articole ştiinţifice publicate în reviste de specialitate cotate ISI, sau în reviste/volume indexate ISI sau BDI

Nr. art/citare	Detalii articol / citări		Factor de impact	Punctaj	Punctaj total articol	Observatii
29	Moldovan M., Visa I., Duta A., <i>Enhanced sustainable cooling for low-energy office buildings in continental temperate climate</i> , DOI: 10.1061/(ASCE)EY.1943-7897.0000485, ASCE's Journal of Energy Engineering, 2017 ISSN: 0733-9402 http://ascelibrary.org/journal/jleed9 http://www.bioxbio.com/ift/html/J-ENERG-ENG-ASCE.html scor relativ de influență 0,853	0.1	1.944	2.044	2.144	factor de impact 2016/2017
28	Visa I., Moldovan M., Comsit M., Neagoe M., Duta A. <i>Facades integrated solar-thermal collectors – challenges and solutions</i> , Energy Procedia, 112, 176-185, 2017 ISSN: 1876-6102 http://www.sciencedirect.com/science/article/pii/S1876610217312055	0.1		0.1	0.100	
27	Visa I, Burduhos B. G., Neagoe M., Moldovan M. D., Duta A., <i>Comparative analysis of the infield response of five types of photovoltaic module</i> , Renewable Energy, 95, 178-90, 30 Sep 2016 ISSN: 0960-1481 (Print), 1879-0682 (Electronic) http://www.sciencedirect.com/science/article/pii/S0960148116302956 http://www.bioxbio.com/ift/html/RENEW-ENERG.html scor relativ de influență 1,713	0.1	3.404	3.504	7.108	factor de impact 2015/2016
27,3	Balaska A., Tahri A., Tahri F., Stambouli A. B., <i>Performance assessment of five different photovoltaic module technologies under outdoor conditions in Algeria</i> , Renewable Energy, In Press, Accepted Manuscript , Available online 25 January 2017 ISSN: 0960-1481 (Print), 1879-0682 (Electronic) http://www.sciencedirect.com/science/article/pii/S0960148117300678 http://www.bioxbio.com/ift/html/RENEW-ENERG.html	0.1	3.404	3.504		factor de impact 2015/2016
27,2	Visa I., Cotorcea A., Neagoe M., Moldovan M., <i>Adaptability of solar energy conversion systems on ships</i> , IOP Conference Series: Materials Science and Engineering, 1-12, 2016 ISSN: 1757-899X http://iopscience.iop.org/article/10.1088/1757-899X/147/1/012070/meta	0		0		
27,1	Aristizabal J., <i>Virtual instrumentation applied to identifying parameters of solar radiation and ambient temperature using autoregressive modeling with exogenous inputs</i> , IOSR Journal of Electrical and Electronics Engineering, 11 (4), 53-58, 2016 ISSN: 2320-333 (Print), 2278-1676 (Electronic) https://www.researchgate.net/profile/Andres_Aristizabal8/publication/306001751_Virtual_Instrumentation_Applied_to	0.1		0.1		
26	Visa I., Cotorcea A., Neagoe M., Moldovan M., <i>Adaptability of solar energy conversion systems on ships</i> , IOP Conference Series: Materials Science and Engineering, 147 (1), 012070, 1-12, 2016 ISSN: 1757-899X http://iopscience.iop.org/article/10.1088/1757-899X/147/1/012070/meta	0.1		0.1	0.100	
26,1				0		
25	Visa I., Cotorcea A., Moldovan M., Neagoe M., <i>Two degrees of freedom parallel linkage to track solar thermal platforms installed on ships</i> , IOP Conf. Series: Materials Science and Engineering, 147 (1), 012071, 1-10, 2016 ISSN: 1757-899X http://iopscience.iop.org/article/10.1088/1757-899X/147/1/012071/pdf	0.1		0.1	0.100	
25,1				0		
24	Visa I., Duta A., Comsit M., Moldovan M. D., Ciobanu D., Saulescu R., Burduhos B. G., <i>Design and experimental optimization of a novel flat plate solar thermal collector with trapezoidal shape for facades integration</i> , Applied Thermal Engineering, 90, 432-443, 2015 ISSN: 1359-4311 (Print), 1873-5606 (Electronic) http://www.sciencedirect.com/science/article/pii/S1359431115005803 http://www.bioxbio.com/ift/html/APPL-THERM-ENG.html scor relativ de influență 1,972	0.1	3.043	3.143	24.946	factor de impact din 2015
24,10	Moss R.W., Shire G.S.F., Henshall P., Eames P.C., Arya F., Hyde T. <i>Optimal passage size for solar collector microchannel and tube-on-plate absorbers</i> , Solar Energy, 153, 718-731, 2017. http://www.sciencedirect.com/science/article/pii/S0038092X17304097 ISSN: 0038-092X http://www.bioxbio.com/ift/html/SOL-ENERGY.html	0.1	4.018	4.118		factori de impact din 2016/2017
24,9	Shen J, Zhang X, Yang T, Tang L, Cheshmehzangi A, Wu Y, Huang G, Zhong D, Xu P, Liu S. <i>Characteristic study of a novel compact Solar Thermal Facade (STF) with internally extruded pin-fin flow channel for building integration</i> , Applied Energy, 168, 48-64, 2016. http://www.sciencedirect.com/science/article/pii/S0306261916300010 ISSN: 0306-2619 http://www.bioxbio.com/ift/html/APPL-ENERG.html	0.1	5.746	5.846		factor de impact 2015/2016
24,8	Ahmadi A, Ganji DD, Jafarkazemi F. <i>Analysis of utilizing Graphene nanoplatelets to enhance thermal performance of flat plate solar collectors</i> . Energy Conversion and Management, 126, 1-11, 2016 ISSN: 0196-8904 http://www.sciencedirect.com/science/article/pii/S0196890416306392 http://www.bioxbio.com/ift/html/ENERG-CONVERS-MANAGE.html	0.1	4.801	4.901		factor de impact 2015/2016
24,7	O'Hegarty R., Kinnane O., McCormack S. J., <i>Review and analysis of solar thermal facades</i> . Solar Energy, 135, 408-22, 2016 ISSN: 0038-092X http://www.sciencedirect.com/science/article/pii/S0038092X16301852 http://www.bioxbio.com/ift/html/SOL-ENERGY.html	0.1	3.685	3.785		factor de impact 2016
24,6	Das R, Akay B, Singla RK, Singh K. <i>Application of artificial bee colony algorithm for inverse modelling of a solar collector</i> , Inverse Problems in Science and Engineering, 1-22, 2016 ISSN: 1741-5977 (Print), 1741-5985 (Electronic) http://www.tandfonline.com/doi/abs/10.1080/17415977.2016.1209748?journalCode=gipe20 http://www.bioxbio.com/ift/html/INVERSE-PROBL-SCI-EN.html	0.1	0.911	1.011		factor de impact 2015/2016
24,5	Rybyár B, Beer M, Cehlár M. <i>Thermal power measurement of the novel evacuated tube solar collector and conventional solar collector during simultaneous operation</i> . Measurement, 88, 153-64, 2016 http://www.sciencedirect.com/science/article/pii/S026322411630032X ISSN: 0263-2241 http://www.bioxbio.com/ift/html/MEASUREMENT.html	0.1	1.742	1.842		factor de impact 2015/2016
24,4	Shen J, Zhang X, Yang T, Tang L, Wu Y, Jin R, Pan S., Wu J., Xu P., <i>Conceptual Development of a Compact Unglazed Solar Thermal Facade (STF) for Building Integration</i> , Energy Procedia, 96, 42-54, 2016 ISSN: 1876-6102 http://www.sciencedirect.com/science/article/pii/S1876610216307354	0.1		0.1		
24,3	Visa I, Duta A. <i>Innovative solutions for solar thermal systems implemented in buildings</i> . Energy Procedia, 85, 594-602, 2016 ISSN: 1876-6102 http://www.sciencedirect.com/science/article/pii/S1876610215029148	0.1		0.1		

Nr. art./ citare	Detalii articol / citări		Factor de impact	Punctaj	Punctaj total articol	Observatii
24,2	Manikandan J, Sivaraman B. <i>Experimental analysis of double glazed flat plate solar water heater with various absorber plate geometries</i> , International Energy Journal, 16, 151-156, 2016 ISSN: 1513-718X http://www.ericjournal.ait.ac.th/index.php/eric/article/viewFile/1371/465	0.1		0.1		
24,1	Moldovan M. , Visa I., Duta A., <i>Future trends for solar energy use in nearly zero energy buildings</i> , Advances in Solar Heating and Cooling, 547-569, ELSEVIER, 2016 ISBN 978-0-08-100301-5 https://www.elsevier.com/books/advances-in-solar-heating-and-cooling/wang/978-0-08-100301-5	0		0		
23	Moldovan M. , Visa I., Neagoe M., <i>Optimising the Strokes and Loads of the Linear Actuators in a Two Degrees of Freedom Linkage Used in Solar Tracking Systems</i> , Proceedings of the 14th IFToMM World Congress, Taipei, Taiwan, 563-572, 2015 DOI Number: 10.6567/IFToMM.14TH.WC.OS16.009 http://www.airitilibrary.com/Publication/alDetailedMesh?docid=P20150909001-201511-201511050030-201511050030-563-572	0.1		0.1	0.100	
23,1				0		
22	Visa I., Neagoe M., Moldovan M. , <i>Algorithm for Structural Synthesis of Planar Mechanisms as Multibody Systems</i> , Proceedings of the 14th IFToMM World Congress, Taipei, Taiwan, 505-514, 2015 DOI Number: 10.6567/IFToMM.14TH.WC.OS8.029 http://www.airitilibrary.com/Publication/alDetailedMesh?DocID=P20150909001-201510-201510280027-201510280027-505-514	0.1		0.1	0.200	
22,2	Visa I., Neagoe M., Moldovan M. D. , <i>Structural Synthesis of Planar Geared Linkage Mechanisms as Multibody Systems</i> , New Advances in Mechanisms, Mechanical Transmissions and Robotics, 46, 99-106, 2016 ISBN: 978-3-319-45449-8 http://link.springer.com/chapter/10.1007/978-3-319-45450-4_10	0		0		
22,1	Yi-Ruei Li, <i>Using Genetic Algorithm to Approximate Weight Geometric Dilution of Precision for precise Mobile Station Positioning</i> , NCKU-National Cheng Kung University Library, Institute of Computer & Communication, 2015 http://www.airitilibrary.com/Publication/alDetailedMesh?DocID=P20150909001-201510-201510280027-201510280027-505-514#Citedliterature	0.1		0.1		
21	Cotorcea A., Visa I., Moldovan M. D. , Ristea M., <i>Performance assessment of solar thermal collectors in various sea states</i> , Mircea cel Batran Naval Academy Scientific Bulletin, 18 (1), 173-176, 2015 ISSN 2392-8956 https://www.anmb.ro/buletinstiintific/buletine/2015_Issue1/MES/173-176.pdf	0.1		0.1	0.100	
21,1				0		
20	Visa I., Moldovan M. , Comsit M., Duta A., <i>Improving the Renewable Energy Mix in a Building Towards the Nearly Zero Energy Status</i> , Energy and Buildings, 68, 72-78, 2014 http://www.sciencedirect.com/science/article/pii/S0378778813005999 ISSN: 0378-7788 http://www.bioxbio.com/ift/html/ENERG-BUILDINGS.html scor relativ de influență 2,099	0.1	2.884	2.984	50.871	Factor de impact din 2014
20,25	Franco A., Fantozzi F., <i>Experimental analysis of a self consumption strategy for residential building: the integration of PV system and geothermal heat pump</i> , Renewable Energy, 1075-1085, 2016 http://www.sciencedirect.com/science/article/pii/S0960148115303098 http://www.bioxbio.com/ift/html/RENEW-ENERG.html	0.1	3.404	3.504		factor de impact 2015/2016
20,24	Dave B., Kubler S., Främling K., Koskela L., <i>Opportunities for enhanced lean construction management using Internet of Things standards</i> , Automation in Construction, 61, 86-97, 2016 http://www.sciencedirect.com/science/article/pii/S0926580515002149 ISSN: 0926-5805 http://www.bioxbio.com/ift/html/AUTOMAT-CONSTR.html	0.1	2.442	2.542		factor de impact 2015/2016
20,23	Soni S. K., Pandey M., VN Bartaria V. N., <i>Hybrid ground coupled heat exchanger systems for space heating/cooling applications: A review</i> , Renewable and Sustainable Energy Reviews, 60, 724-738, 2016 http://www.sciencedirect.com/science/article/pii/S1364032116001805 ISSN: 1364-0321 http://www.bioxbio.com/ift/html/RENEW-SUST-ENERG-REV.html	0.1	6.798	6.898		factor de impact 2015/2016
20,22	Zhou Z., Feng L., Zhang S., Wang C., Chen G. Du T., Li Y., Zuo J., <i>The operational performance of "net zero energy building": A study in China</i> , Applied Energy, 177, 716-728, 2016 http://www.sciencedirect.com/science/article/pii/S0306261916306912 Journal ISSN: 0306-2619 http://www.bioxbio.com/ift/html/APPL-ENERG.html	0.1	5.746	5.846		factor de impact 2015/2016
20,21	Bajenaru N., Damian A., Frunzulica R., <i>Evaluation of the Energy Performance for a nZEB Office Building under Specific Climatic Conditions</i> , Energy Procedia, 85, 26-34, 2016 ISSN: 1876-6102 http://www.sciencedirect.com/science/article/pii/S1876610215029367	0.1		0.1		
20,20	Visa I., Duta A. <i>Innovative solutions for solar thermal systems implemented in buildings</i> . Energy Procedia, 85, 594-602, 2016 ISSN: 1876-6102 http://www.sciencedirect.com/science/article/pii/S1876610215029148	0.1		0.1		
20,19	Sovetnikov D. O., Semashkina D. O., <i>The design and energy efficiency analysis of the building meets the principles of the standard "Passivhaus"</i> , Construction of Unique Buildings and Structures, 6 (45), 68-88, 2016 ISSN 2304-6295 http://unistroy.spbstu.ru/index_2016_45/4_sovetnikov_45.pdf	0.1		0.1		
20,18	Moldovan M. , Visa I., Duta A., <i>Future trends for solar energy use in nearly zero energy buildings</i> , Advances in Solar Heating and Cooling, 547-569, ELSEVIER, 2016 ISBN 978-0-08-100301-5 https://www.elsevier.com/books/advances-in-solar-heating-and-cooling/wang/978-0-08-100301-5	0		0		
20,17	Mavromatidis L. E., <i>A review on hybrid optimization algorithms to coalesce computational morphogenesis with interactive energy consumption forecasting</i> , Energy and Buildings, 106, 192-202, 2015 http://www.sciencedirect.com/science/article/pii/S0378778815301195 ISSN: 0378-7788 http://www.bioxbio.com/ift/html/ENERG-BUILDINGS.html	0.1	2.973	3.073		factor de impact 2015
20,16	Ming T., Chen D., Toucieshi S. N., Talele S., Checketts G. T., Hasib N., Wicaksono C., Xiong G., Qiu Y., Peng C., Mun J., Rayegan R., Tao Y., <i>A Zero Energy Lab as a validation testbed: Concept, features, and performance</i> , International journal of hydrogen energy, 40, 37, 12854-12867, 2015 http://www.sciencedirect.com/science/article/pii/S0360319915017383 ISSN: 0360-3199 http://www.bioxbio.com/ift/html/INT-J-HYDROGEN-ENERG.html	0.1	3.205	3.305		factor de impact 2015
20,15	Lu Y., Wang S., Shan K., <i>Design optimization and optimal control of grid-connected and standalone nearly/net zero energy buildings</i> , Applied Energy, 155, 463-477, 2015 http://www.sciencedirect.com/science/article/pii/S0306261915007655 ISSN: 0306-2619 http://www.bioxbio.com/ift/html/APPL-ENERG.html	0.1	5.746	5.846		factor de impact 2015

Nr. art./ citare	Detalii articol / citări		Factor de impact	Punctaj	Punctaj total articol	Observatii
20,14	Sun Y., Huang P., Huang G., <i>A Multi-Criteria System Design Optimization for Net Zero Energy Buildings under Uncertainties</i> , Energy and Buildings, 97, 196-204, 2015 http://www.sciencedirect.com/science/article/pii/S0378778815002856 ISSN: 0378-7788 http://www.bioxbio.com/it/html/ENERG-BUILDINGS.html	0.1	2.973	3.073		factor de impact 2015
20,13	Sun Y., <i>Sensitivity Analysis of Macro-parameters in the System Design of Net Zero Energy Building</i> , Energy and Buildings, 86, 464-477, 2015 http://www.sciencedirect.com/science/article/pii/S0378778814008767 ISSN: 0378-7788 http://www.bioxbio.com/it/html/ENERG-BUILDINGS.html	0.1	2.973	3.073		factor de impact 2015
20,12	Sasidharan N., Singh J. G., Ongsakul W., Sudhin P. K., <i>Hybrid AC/DC solar powered net zero energy home</i> , IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT), 2015 ISBN: 978-1-4799-6084-2 http://ieeexplore.ieee.org/abstract/document/7225992?reload=true	0.1		0.1		
20,11	Lu Y., Design optimization and optimal control of energy systems in nearly/net-zero energy buildings - PhD Thesis, 2015 http://ira.lib.polyu.edu.hk/bitstream/10397/40917/2/b28391822_ira.pdf	0.1		0.1		
20,10	Visa I., Duta A., Comsit M., Moldovan M. D. , Ciobanu D., Saulescu R., Burduhos B. G., <i>Design and experimental optimization of a novel flat plate solar thermal collector with trapezoidal shape for facades integration</i> , Applied Thermal Engineering, 90, 432-443, 2015 ISSN: 1359-4311 (Print), 1873-5606 (Electronic) http://www.sciencedirect.com/science/article/pii/S1359431115005803 http://www.bioxbio.com/it/html/APPL-THERM-ENG.html	0		0		
20,9	Visa I., Duta A., Moldovan M. , Burduhos B., <i>Conceptual Design Of Renewable-Based Energy Mixes For Sustainable Communities</i> , Buletinul AGIR, Supliment 1, 117-127, 2015 http://www.agir.ro/buletine/2226.pdf	0		0		
20,8	Duta A., Visa I., Moldovan M. , Comsit M., <i>New Concepts For Increasing The Buildings Energy Efficiency</i> , Buletinul AGIR, Supliment 1, 128-135, 2015 http://www.agir.ro/buletine/2227.pdf	0		0		
20,7	Orehounig K., Mavromatidis G., Evins R., Dorer V., <i>Towards an energy sustainable community: An energy system analysis for a village in Switzerland</i> , Energy and Buildings, 84, 277-286, 2014 http://www.sciencedirect.com/science/article/pii/S0378778814006549 ISSN: 0378-7788 http://www.bioxbio.com/it/html/ENERG-BUILDINGS.html	0.1	2.884	2.984		Factor de impact din 2014
20,6	Gaigalis V., Skema R., <i>Analysis of fuel and energy transition in Lithuanian households sector and its sustainable development in compliance with the EU policy</i> , Renewable & Sustainable Energy Reviews, 37, Pages: 273-287, 2014 http://www.sciencedirect.com/science/article/pii/S1364032114003566 ISSN: 1364-0321 http://www.bioxbio.com/it/html/RENEW-SUST-ENERG-REV.html	0.1	5.901	6.001		Factor de impact din 2014
20,5	Kim S. Jang Y. J., Shin Y., Kim G. H., Economic Feasibility Analysis of the Application of Geothermal Energy Facilities to Public Building Structures, Sustainability, 6 (4), 1667-1685, 2014 http://www.mdpi.com/2071-1050/6/4/1667 ISSN: 2071-1050 http://www.bioxbio.com/it/html/SUSTAINABILITY-BASEL.html	0.1	0.942	1.042		Factor de impact din 2014
20,4	Jang Y. J., Kim S., Shin Y., Kim G. H., Economic Analysis of Geothermal Energy Facilities Applied to Public Building, Journal of the Korea Institute of Building Construction, 14 (5) 423-432, 2014, http://dx.doi.org/10.5345/JKIBC.2014.14.5.423 http://2015.jkibc.org/Upload/files/JKIBC/201410-6.pdf ISSN 1598-2033 (printed) ISSN 2233-5706 (electronic)	0.1		0.1		
20,3	Visa I., Duta A., <i>The Built Environment in Sustainable Communities</i> , Sustainable Energy in the Built Environment - Steps Towards nZEB, Springer Proceedings in Energy, 3-29, 2014 http://link.springer.com/chapter/10.1007/978-3-319-09707-7_1 ISBN: 978-3-319-09706-0	0.1		0.1		
20,2	Moldovan M. , Visa I., Ciobanu D., <i>Towards nZEB—Sustainable Solutions to Meet Thermal Energy Demand in Office Buildings</i> , Sustainable Energy in the Built Environment - Steps Towards nZEB Springer Proceedings in Energy, 115-133, 2014, http://link.springer.com/chapter/10.1007/978-3-319-09707-7_10 ISBN: 978-3-319-09706-0	0		0		
20,1	Moldovan M. D. , Visa I., Neagoe M., Burduhos B. G., <i>Solar heating & cooling energy mixes to transform low energy buildings in nearly zero energy buildings</i> , Energy Procedia, 48, 924-937, 2014 http://www.sciencedirect.com/science/article/pii/S1876610214003683 ISSN: 1876-6102	0		0		
19	Visa I., Comsit M., Moldovan M. D. , Duta A., <i>Outdoor simultaneous testing of four types of photovoltaic tracked modules</i> , Journal of Renewable and Sustainable Energy 6, 2014 http://scitation.aip.org/content/aip/journal/jrse/6/3/10.1063/1.4871003 ISSN: 1941-7012 http://www.bioxbio.com/it/html/J-RENEW-SUSTAIN-ENER.html scor relativ de influență 0,446	0.1	0.904	1.004	2.265	Factor de impact din 2014
19,4	Perraki V., Koumavis P., <i>Effect of temperature and radiation on the parameters of photovoltaic modules</i> , Journal of Renewable Sustainable Energy 8, 013102, 2016 http://aip.scitation.org/doi/abs/10.1063/1.4939561?journalCode=rse ISSN: 1941-7012 http://www.bioxbio.com/it/html/J-RENEW-SUSTAIN-ENER.html	0.1	0.961	1.061		factor de impact 2015/2016
19,3	Visa I., Burduhos B. G., Neagoe M., Moldovan M. D. , Duta A., Comparative analysis of the in-field response of five types of photovoltaic module, Renewable Energy, 95, 178-90, 30 Sep 2016 ISSN: 0960-1481 (Print), 1879-0682 (Electronic) http://www.sciencedirect.com/science/article/pii/S0960148116302956 http://www.bioxbio.com/it/html/RENEW-ENERG.html	0		0		
19,2	Comsit M., Visa I., Duta A., Ciobanu D., <i>Mechanisms for deployable stand-alone PV arrays</i> , Proceedings of the 14th IFToMM World Congress, Taipei, Taiwan, 573-582, 2015 DOI Number: 10.6567/IFTtoMM.14TH.WC.OS16.010 http://www.airitilibrary.com/Publication/alDetailedMesh?DocID=P20150909001-201511-201511050030-201511050030-573-582	0.1		0.1		
19,1	Visa I., Duta A., <i>The Built Environment in Sustainable Communities</i> , Sustainable Energy in the Built Environment - Steps Towards nZEB, Springer Proceedings in Energy, 3-29, 2014 http://link.springer.com/chapter/10.1007/978-3-319-09707-7_1 ISBN: 978-3-319-09706-0	0.1		0.1		
18	Moldovan M. D. , Visa I., Neagoe M., Burduhos B. G., <i>Solar heating & cooling energy mixes to transform low energy buildings in nearly zero energy buildings</i> , Energy Procedia, 48, 924-937, 2014 http://www.sciencedirect.com/science/article/pii/S1876610214003683 ISSN: 1876-6102	0.1		0.1	29.553	

Nr. art./ citare	Detalii articol / citări		Factor de impact	Punctaj	Punctaj total articol	Observatii
18,22	Calise F., Figaj R.D., Vanoli L., <i>A novel polygeneration system integrating photovoltaic/thermal collectors, solar assisted heat pump, adsorption chiller and electrical energy storage: Dynamic and energy-economic analysis</i> , Energy Conversion and Management, In Press, Corrected Proof , 2017 http://www.sciencedirect.com/science/article/pii/S0196890417302388 ISSN: 0196-8904 http://www.bioxbio.com/it/html/ENERG-CONVERS-MANAGE.html	0.1	4.801	4.901		factor de impact 2015/2016
18,21	Jradi M., Veje C., Jørgensen B. N., <i>Performance analysis of a soil-based thermal energy storage system using solar-driven air-source heat pump for Danish buildings sector</i> , Applied Thermal Engineering, 114, 360-373, 2017 http://www.sciencedirect.com/science/article/pii/S1359431116338595 ISSN: 1359-4311 (Print), 1873-5606 (Electronic) http://www.bioxbio.com/it/html/APPL-THERM-ENG.html	0.1	3.043	3.143		factor de impact 2015/2016
18,20	Ashfaq A., Kamali Z. H., Agha M. H., Arshid H., <i>Heat coupling of the pan-European vs. regional electrical grid with excess renewable energy</i> , Energy, 122, 363-377, 2017 http://www.sciencedirect.com/science/article/pii/S0360544217300841 ISSN: 0360-5442 (Print), 1873-6785 (Electronic) http://www.bioxbio.com/it/html/ENERGY.html	0.1	4.292	4.392		factor de impact 2015/2016
18,19	Costas M., <i>Valoración energética de las bombas de calor como fuente de energía renovable en los edificios de consumo casi nulo en Canaria</i> , Universidad de Las Palmas de Gran Canaria, 76 pp, 2016 pagina in care apare citarea: 25 http://acceda.ulpgc.es/bitstream/10553/20309/1/0731297_00000_0000.pdf	0.1		0.1		pe google scholar a aparat doar in februarie 2016
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18,14	Mavromatidis L. E., <i>A review on hybrid optimization algorithms to coalesce computational morphogenesis with interactive energy consumption forecasting</i> , Energy and Buildings, 106, 192-202, 2015 http://www.sciencedirect.com/science/article/pii/S0378778815301195 ISSN: 0378-7788 http://www.bioxbio.com/it/html/ENERG-BUILDINGS.html	0.1	2.973	3.073		factor de impact 2015
18,13	Mujeebu M. A., Alshamrani O. S., <i>A Review of Solar Energy Exploration and Utilization in Saudi Buildings</i> , International Journal of Advanced Thermofluid Research, 1 (1), 70-85, 2015 ISSN 2455-1368 (Online) http://www.ijatr.org/pdfs/ijatr_vol1n1_6.pdf	0.1		0.1		
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18,4	Nikbakht H., MehdiNezhad M. R., GholiPour S. M. A., <i>Study of Intelligent Architecture Techniques along Energy Consumption Optimization with Solar Energy Approach</i> , Journal of Civil Engineering and Urbanism, 4 (5), 554-561, 2014 ISSN 2252-0430 http://www.ojceu.ir/main/attachments/article/34/1/%20Civil%20Eng.%20Urban.%204%20(5)%20554-561.%202014.pdf	0.1		0.1		
18,3	Morozov M. N., Strizhak P. A., <i>The study of energy efficiency of central heating systems with a consistent configuration of heaters with different methods of heat control</i> , Russian Scientific Conference with international participation, Tomsk Publishing house TPU, 278-284, 2014 http://earchive.tpu.ru/handle/11683/23336	0.1		0.1		
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17,7	Visa I., Cotorcea A., Moldovan M. , Neagoe M., <i>Two degrees of freedom parallel linkage to track solar thermal platforms installed on ships</i> , IOP Conf. Series: Materials Science and Engineering, 147 (1), 012071, 1-10, 2016 ISSN: 1757-899X http://iopscience.iop.org/article/10.1088/1757-899X/147/1/012071/pdf	0		0		
17,6	Burduhos B., Neagoe M., Duta A., <i>Adaptive Stepwise Orientation Algorithm for Non-concentrated Dual-axis Solar Tracking Systems</i> , Proceedings of the 14th IFToMM World Congress, Taipei, Taiwan, 551-558, 2015 DOI Number: 10.6567/IFToMM.14TH.WC.OS16.006 http://www.airitilibrary.com/Publication/alDetailedMesh?DocID=P20150909001-201511-201511050030-201511050030-551-558	0.1		0.1		
17,5	Moldovan M. , Visa I., Neagoe M., <i>Optimising the Strokes and Loads of the Linear Actuators in a Two Degrees of Freedom Linkage Used in Solar Tracking Systems</i> , Proceedings of the 14th IFToMM World Congress, Taipei, Taiwan, 563-572, 2015 DOI Number: 10.6567/IFToMM.14TH.WC.OS16.009 http://www.airitilibrary.com/Publication/alDetailedMesh?docid=P20150909001-201511-201511050030-201511050030-563-572	0		0		
17,4	Visa I., Duta A., <i>The Built Environment in Sustainable Communities</i> , Sustainable Energy in the Built Environment - Steps Towards nZEB, Springer Proceedings in Energy, 3-29, 2014 http://link.springer.com/chapter/10.1007/978-3-319-09707-7_1 ISBN: 978-3-319-09706-0	0.1		0.1		
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16,2	Moldovan M. , Visa I., Neagoe M., <i>Optimising the Strokes and Loads of the Linear Actuators in a Two Degrees of Freedom Linkage Used in Solar Tracking Systems</i> , Proceedings of the 14th IFToMM World Congress, Taipei, Taiwan, 563-572, 2015 DOI Number: 10.6567/IFToMM.14TH.WC.OS16.009 http://www.airitilibrary.com/Publication/alDetailedMesh?docid=P20150909001-201511-201511050030-201511050030-563-572	0		0		
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15	Neagoe M., Visa I., Cretescu N., Moldovan M. D. , <i>On a New Parallel Tracking System for Accurate Orientation of Concentrated Solar Convertors</i> , Applied Mechanics and Materials 658, 105-110, 2014 http://www.scientific.net/AMM.658.105 ISSN: 1662-7482	0.1		0.1	0.200	
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15,1	Moldovan M. , Visa I., Neagoe M., <i>Optimising the Strokes and Loads of the Linear Actuators in a Two Degrees of Freedom Linkage Used in Solar Tracking Systems</i> , Proceedings of the 14th IFToMM World Congress, Taipei, Taiwan, 563-572, 2015 DOI Number: 10.6567/IFToMM.14TH.WC.OS16.009 http://www.airitilibrary.com/Publication/alDetailedMesh?docid=P20150909001-201511-2015111050030-201511050030-563-572	0	0		
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12	Visa I., Diaconescu D., Moldovan M. , <i>A New Solar Tracking Linkage with 2 Actuators in Parallel Connected</i> , Proceedings of the 2nd IFToMM Asian Conference on Mechanism and Machine Science, Tokyo, Japan, 2012	0.1	0.1	0.100	
11	Moldovan M. D. , Visa I., Burduhos B. G., <i>Energetic autonomy for a solar house</i> , Environmental Engineering & Management Journal, 10(9), 1283-1290, 2011 http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol10/no9/13_373_Moldovan_11.pdf ISSN 1582-9596 http://www.bioxbio.com/ift/html/ENVIRON-ENG-MANAG-J.html	0.1	1.004	1.104	Factor de impact din 2011
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11,11	Visa I., Duta A., <i>Innovative solutions for solar thermal systems implemented in buildings</i> , Energy Procedia, 85, 594-602, 2016 ISSN: 1876-6102 http://www.sciencedirect.com/science/article/pii/S1876610215029148	0.1	0.1		
11,10	Moldovan M. , Visa I., Duta A., <i>Future trends for solar energy use in nearly zero energy buildings</i> , Advances in Solar Heating and Cooling, 547-569, Elsevier, 2016 ISBN 978-0-08-100301-5 https://www.elsevier.com/books/advances-in-solar-heating-and-cooling/wang/978-0-08-100301-5	0	0		
11,9	Burduhos B. G., Visa I., Neagoe M., Badea M., <i>Modeling and Optimization of the Global Solar Irradiance Collecting Efficiency</i> , International Journal of Green Energy, 12 (7) 743-755, 2015 http://www.tandfonline.com/doi/abs/10.1080/15435075.2014.884499 ISSN: 1543-5075, 1543-5083 http://www.bioxbio.com/ift/html/INT-J-GREEN-ENERGY.html	0.1	1.601	1.701	Factor de impact din 2015
11,8	Burduhos B., Neagoe M., Duta A., <i>Adaptive Stepwise Orientation Algorithm for Non-concentrated Dual-axis Solar Tracking Systems</i> , Proceedings of the 14th IFToMM World Congress, Taipei, Taiwan, 551-558, 2015 DOI Number: 10.6567/IFToMM.14TH.WC.OS16.006 http://www.airitilibrary.com/Publication/alDetailedMesh?DocID=P20150909001-201511-2015111050030-201511050030-551-558	0.1	0.1		
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11,2	Comsit M., Visa I., Moldovan M. D. , Isac L., <i>Architecturally integrated multifunctional solar-thermal façades</i> , Sustainable Energy in the Built Environment-Steps Towards nZEB, Springer International Publishing, 47-65, 2014 ISBN: 978-3-319-09706-0 http://link.springer.com/chapter/10.1007/978-3-319-09707-7_4	0	0		
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10	Burduhos B. G., Toma C., Neagoe M., Moldovan M. D. , <i>Pseudo-equatorial tracking optimization for small photovoltaic platforms from Toronto/Canada</i> , Environmental Engineering and Management Journal, 10(8), 1059-1068, 2011 http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol10/no8/17_341_Burduhos_11.pdf ISSN 1582-9596 http://www.bioxbio.com/ift/html/ENVIRON-ENG-MANAG-J.html	0.1	1.004	1.104	Factor de impact din 2011
10,4	Burduhos B. G., Visa I., Neagoe M., Badea M., <i>Modeling and Optimization of the Global Solar Irradiance Collecting Efficiency</i> , International Journal of Green Energy, 12 (7) 743-755, 2015 http://www.tandfonline.com/doi/abs/10.1080/15435075.2014.884499 ISSN: 1543-5075, 1543-5083 http://www.bioxbio.com/ift/html/INT-J-GREEN-ENERGY.html	0.1	1.601	1.701	Factor de impact din 2015

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10,3	Burduhos B., Neagoe M., Duta A., <i>Adaptive Stepwise Orientation Algorithm for Non-concentrated Dual-axis Solar Tracking Systems</i> , Proceedings of the 14th IFToMM World Congress, Taipei, Taiwan, 551-558, 2015 DOI Number: 10.6567/IFToMM.14TH.WC.OS16.006 http://www.airitilibrary.com/Publication/alDetailedMesh?DocID=P20150909001-201511-201511050030-201511050030-551-558	0.1		0.1		
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9	Moldovan M. , Visa I., Burduhos B., <i>Energy modeling of a single axis tracked string PV system from a hybrid RES</i> , Proceedings of 26th European Photovoltaic Solar Energy Conference and Exhibition, 3804-3807, 2011 http://www.eupvsec-proceedings.com/proceedings?char=E&paper=14373 ISBN 3-936338-27-2	0.1		0.1	0.200	
9,2	Visa I., <i>Mechanisms in building integrated renewable energy systems: Case study—solar energy conversion systems</i> . The 11th IFToMM International Symposium on Science of Mechanisms and Machines 2014 (pp. 31-49). Springer International Publishing.	0.1		0.1		
9,1	Moldovan M. D. , Visa I., Neagoe M., <i>Optimising the strokes and loads of the linear actuators in a two degrees of freedom linkage used in solar tracking systems</i> . The 14th IFToMM World Congress, Taipei, Taiwan, October 25-30, 2015	0		0		
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7	Moldovan M. , Visa I., Duta A., <i>Energetic Monitoring And Optimization Of A Solar House</i> , Bulletin of the Transilvania University of Brasov, Series I: Engineering Sciences, 3 (52), 91-98, 2010	0.1		0.1	0.100	
7,2	Visa I., Moldovan M. , Comsit M., Duta A., <i>Improving the Renewable Energy Mix in a Building Towards the Nearly Zero Energy Status</i> , Energy and Buildings, 68, 72-78, 2014 http://www.sciencedirect.com/science/article/pii/S0378778813005999 ISSN: 0378-7788 http://www.bioxbio.com/ift/html/ENERG-BUILDINGS.html	0		0		
7,1	Moldovan M. D. , Visa I., Burduhos B. G., <i>Energetic autonomy for a solar house</i> , Environmental Engineering & Management Journal, 10(9), 1283-1290, 2011 http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol10/no9/13_373_Moldovan_11.pdf ISSN 1582-9596 http://www.bioxbio.com/ift/html/ENVIRON-ENG-MANAG-J.html	0		0		
6	Moldovan M. , Boian I., <i>Heat Pump Operation & Data Collection</i> , Proceedings of Sixth International Conference Mechanics And Machine Elements, 261-270, Sofia, Bulgaria, 2010 http://menk.mf.tu-sofia.bg ISSN: 1314-040X	0.1		0.1	0.100	
5	Boian I., Șerban A., Moldovan M. , Chiriac F., <i>Laborator pompe de căldură</i> , Proceedings of 19th Conference Installation for Building and the Ambient Confort, 135-144, Timișoara, România, 2010	0.1		0.1	0.100	
4	Dombi V. E., Visa I., Moldovan M. D. , Burduhos B. G., <i>Step orientation system for a solar thermal platform</i> , International Symposium KOD 2010 Proceedings, Palić, Serbia, 265-268, 2010 ISBN 978-86-7892-278-7 http://www.kod.ftn.uns.ac.rs/deadlines.html	0.1		0.1	1.404	
4,3	Visa I., <i>Mechanisms in building integrated renewable energy systems: Case study—solar energy conversion systems</i> , The 11th IFToMM International Symposium on Science of Mechanisms and Machines, Springer International Publishing, 31-49, 2014 http://link.springer.com/chapter/10.1007/978-3-319-01845-4_4 ISBN: 978-3-319-01844-7	0.1		0.1		
4,2	Dombi V.E., Visa I., Diaconescu D. V., Vatasescu M. M., Tatu N. I., <i>Energy response of a mono-axis tracked solar thermal collector with vacuum tubes</i> , International Conference on Renewable Energies and Power Quality (ICREPQ'11) 2011.	0.1		0.1		
4,1	Dombi V. E., Vatasescu M. M., <i>Motion law of a pseudo-equatorial solar thermal collector for special working requirements</i> , Environmental Engineering & Management Journal, 10(8), 2011 http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol10/no8/38_356_Dombi_11.pdf ISSN: 1582-9596 http://www.bioxbio.com/ift/html/ENVIRON-ENG-MANAG-J.html	0.1	1.004	1.104		Factor de impact din 2011
3	Dombi V., Moldovan M. , Boian I., Visa I., <i>Thermal comfort in an office room</i> , Proceedings of 10th REHVA world congress Clima 2010 Sustainable Energy Use in Buildings, 307-308, 2010	0.1		0.1	0.100	
2	Boian I., Șerban A., Moldovan M. , Chiriac F., <i>Heat Pump Laboratory</i> , Proceedings of 1st International Conference on Manufacturing Engineering, Quality And Production Systems (MEQAPS'09), 136-141, 2009 http://www.wseas.us/e-library/conferences/2009/brasov/EG/EG19.pdf ISSN: 1790-2769	0.1		0.1	0.100	
1	Boian I., Moldovan M. , <i>Energy Efficient Operation of the Open Loop Heat Pump Systems</i> , Bulletin of the Transilvania University of Brasov, Series I: Engineering Sciences, 2 (51), 361-370, 2009	0.1		0.1	0.100	

Total CDI-ART 129.720

1.2. CDI-BRV - Brevete naționale

1brevet=1pct

Nr.	Detalii	Formula	Punctaj
1	Vișa I., Diaconescu D., Neagoe M., Eftimie E., Șerban C., Moldovan M. , Săulescu R., Vătășescu Porca M., Burduhos B., Țoțu I., <i>Mecanism de orientare monoaxială cu două actuatori liniari</i> , brevet nr. RO127979 / 30.05.2016	1 brevet	1
2	Vișa M., Duță-Capra A., Vișa I., Moldovan M.-D., Neagoe M., <i>Reactor tubular în flux continuu pentru procese simultane de fotocataliză și adsorbție în suspensie</i> , propunere de brevet nr. RO131776/28.04.2017	1 propunere de brevet	0
3	Vișa I., Comșit M., Duță A., Neagoe M., Săulescu R., Ciobanu D., Moldovan M. , Burduhos B., Perniu D., Eneșca A., Isac L., Ienei E., Mihoreanu C., Țoțu I., <i>Colector solar termic modular pentru optimizarea prin testare a eficienței conversiei și creșterea acceptanței arhitecturale</i> , propunere de brevet nr. RO130275/29.05.2015	1 propunere de brevet	0
4	Vișa I., Duță-Capra A., Neagoe M., Comșit M., Moldovan M. D. , Burduhos B. G., <i>Sistem de panouri solare plane poligonale modularizate pentru integrare în fațade</i> , propunere de brevet nr. RO128860/30.09.2013	1 propunere de brevet	0
5	Vișa I., Diaconescu D., Neagoe M., Moldovan M. , Săulescu R., Vătășescu Porca M. M., Burduhos B., Țoțu I., Șerban C., Grigorescu C. M., <i>Mecanism de orientare cu două actuatori liniari în paralel pentru sisteme alcătuite din șiruri fotovoltaice</i> , propunere de brevet nr. RO128315/30.04.2013	1 propunere de brevet	0
6	Vișa I., Diaconescu D., Neagoe M., Jaliu C., Alexandru C., Dobre B., Boțoman M., Săulescu R., Moldovan M. , Porca Vătășescu M., <i>Actuator de joasă viteză cu reductor articulat intermitent</i> , propunere de brevet nr. RO128120/30.01.2013	1 propunere de brevet	0
7	Vișa I., Dombi V., Neagoe M., Moldovan M. , Săulescu R., Țoțu I., Badea M., Vătășescu Porca M., Șerban C., <i>Sistem și metodă de orientare a unui colector solar termic plan în funcție de necesarul termic</i> , propunere de brevet nr. RO127678/30.07.2012	1 propunere de brevet	0
TOTAL CDI-BRV			1

1.3. CDI-PTS - Produse, tehnologii și servicii inovative

Nr.	Detalii	Formula	Punctaj
1			
TOTAL			0

1.4.1. CDI-MON - Monografii internaționale

1 punct = 10 pagini contribuție

Nr.	Detalii	Nr. pg. contr.	Punctaj
1	Vișa I., Comsit M., Duță A., Neagoe M., Moldovan M. , Burduhos B., Perniu D., Enesca A., Isac L., Cosnita M., Totu I., Savvides I., Vassiliades C., <i>Novel Solar-Thermal Collectors/Array With Increased Architectural Acceptance For Building Integration</i> , Building Integration of Solar Thermal Systems Design and Applications Handbook, 373-391, COST Office, 2017 ISBN: 978-9963-697-22-9 http://www.tu1205-bists.eu/wp-content/uploads/sites/13/2013/07/CONTENTS.pdf	0.62	0.06
2	Moldovan M. , Vișa I., Duță A., <i>Future trends for solar energy use in nearly zero energy buildings</i> , Advances in Solar Heating and Cooling, 547-569, ELSEVIER, 2016 ISBN 978-0-08-100301-5 https://www.elsevier.com/books/advances-in-solar-heating-and-cooling/wang/978-0-08-100301-5	7.67	0.77
3	Vișa I., Neagoe M., Moldovan M. , <i>Structural synthesis of planar geared linkage mechanisms as multibody systems</i> , New advances in mechanisms mechanical transmissions and robotics, 99-106, Springer, 2016 ISBN 978-3-319-45449-8 http://link.springer.com/chapter/10.1007/978-3-319-45450-4_10	2.67	0.27
4	Moldovan M. , Vișa I., Ciobanu I., <i>Towards nZEB—Sustainable Solutions to Meet Thermal Energy Demand in Office Buildings</i> , Sustainable Energy in the Built Environment - Steps Towards nZEB Springer Proceedings in Energy, Proceedings of the Conference for Sustainable Energy (CSE), 115-133, Springer, 2014 ISBN 978-3-319-09706-0 http://link.springer.com/chapter/10.1007/978-3-319-09707-7_10	6.33	0.63
5	Comșit M., Vișa I., Moldovan M. D. , Isac L., <i>Architecturally Integrated Multifunctional Solar-Thermal Façades</i> , Sustainable Energy in the Built Environment - Steps Towards nZEB, Springer Proceedings in Energy, Proceedings of the Conference for Sustainable Energy (CSE), 47-65, Springer, 2014 ISBN 978-3-319-09706-0 http://link.springer.com/chapter/10.1007/978-3-319-09707-7_4	4.75	0.48
6	Moldovan M. , Vișa I., Săulescu R., Comșit M., <i>Four-Bar Linkages with Linear Actuators Used for Solar Trackers with Large Angular Diurnal Strokes</i> , The 11th IFTOMM International Symposium on Science of Mechanisms and Machines, 411-423, Springer, 2014 ISBN: 978-3-319-01844-7 http://link.springer.com/chapter/10.1007/978-3-319-01845-4_41	3.25	0.33
TOTAL			2.47

1.4.2. CDI-MON - Monografii naționale

1 punct = 50 pagini contribuție

Nr.	Detalii	Nr. pg. contr.	Punctaj
1	Burduhos B. G., Moldovan M. D. , Controlul sistemelor de energii regenerabile, Editura Universității Transilvania din Brașov, 2016, 199 pagini ISBN 978-606-19-0731-1 http://www.unitbv.ro/press/Homenage/Subiectareas/Engineering/sciences.aspx	30.00	0.60
2	Vișa I., Jaliu C., Duță A., Neagoe M., Comșit M., Moldovan M. , Ciobanu D., Burduhos B., Săulescu R., <i>The Role of Mechanisms in Sustainable Energy Systems</i> , Editura Universității Transilvania din Brașov, 2015, 346 pagini ISBN 978-606-19-0571-3 http://cc.sibimol.bnrm.md/opac/bibliographic_view/525260?jsessionid=1CB2C52C1EBD686B19A44DE2B9AB82B2	43.25	0.87
3	Vătășescu M. M., Moldovan M. D. , Burduhos B. G., <i>Sisteme articulate pentru orientare solară</i> , Editura Universității Transilvania din Brașov, 2011, 132 pagini ISBN: 978-973-598-946-0 http://www.worldcat.org/title/sisteme-articulate-pentru-orientare-solara/oclc/89539332/	44.00	0.88
TOTAL			2.35

2. Criteriul DID - Activitate didactică

Indicatori CDI	Descriere	Punctaj	Observații Monitor Oficial	Punctaj realizat
Indicatori cu contribuție principală (obligatorie) în criteriu				
DID-MS (min. 60% din punctaj standard minimal)	Manuale suport curs, format tipărit sau format electronic	1 punct = 50 pagini	Candidatul trebuie sa fie autor principal (autor unic sau primul autor) al manualului. Pentru formatul electronic calitatea de autor principal este certificată de conducerea departamentului	3.30
Indicatori cu contribuție complementară în criteriu				
DID-LAB	Standuri/laboratoare pentru activități didactice realizate sau dezvoltate de candidat, cu lucrări de laborator elaborate de candidat și incluse în îndrumător laborator format tipărit sau format electronic	1 punct = 1 lucrare de laborator cu infrastructură realizată/dezvoltată de candidat	Pentru standurile sau laboratoarele didactice, calitatea de dezvoltator este certificată de conducerea departamentului	7
DID-PIE	Platforme informatice educaționale			0
Total				10.30

Director de departament,
Prof. dr. ing. Luciana CRISTEA

Candidat,
Ș.L. dr. ing. MOLDOVAN Macedon Dumitru

2.1. DID-MSD - Manuale suport curs

50 pagini = 1 punct

Nr.	Detalii	Nr. pg.	Punctaj
1	Conversia energiei geotermice. Suport de curs. Autor: Moldovan M.D. , 2017, nr. pg. = 165	165	3.30
2			

Total 3.30

2.2. DID-LAB - Standuri/laboratoare pentru activități didactice

1 laborator = 1 punct

Nr.	Detalii	Nr. lab.	Punctaj
1	Conversia energiei geotermice. Indrumar de laborator. Autor: Moldovan M. D. , 2017, ISBN		
	L1 - Sistem geotermic de joasă entalpie bazat pe pompă de căldură utilizat pentru Căsuței Solare de pe Colina Universității	1	1.00
	L2 - Determinarea experimentală a necesarului de energie al Căsuței Solare de pe Colina Universității.	1	1.00
	L3 - Determinarea experimentală a variației temperaturii solului în zona colectorului geotermic orizontal de pe Colina Universității.	1	1.00
	L4 - Determinarea experimentală a energiei geotermice extrase prin intermediul colectorului geotermic orizontal de pe Colina Universității	1	1.00
	L5 - Determinarea experimentală a energiei termice produse de sistemul de conversie a energiei geotermice bazat pe pompă de căldură de pe Colina Universității.	1	1.00
	L6 - Determinarea experimentală a consumului de energie electrică și a coeficientului de performanță ale sistemului geotermic utilizat pentru încălzirea Casei Solare de pe Colina Universității.	1	1.00
	L7- O&M (operarea și mentenanța) sistemului geotermic de pe Colina Universității.	1	1.00

Total 7.00

2.3. DID-PIE - Platforme informatice educaționale

Nr.	Detalii	Formula	Punctaj

Total 0.00

Total DID 10.30

3. Criteriul RIA - Recunoaștere și impactul activității

Indicatori CDI	Descriere	Punctaj	Observații Monitor Oficial	Punctaj realizat
Contribuție principală (minim 60% din punctaj standard minimal) în calitate de director grant/proiect				
RIA-GRA	Director sau responsabil partener grant internațional	1 punct = 10000 EUR	Calitatea de director sau responsabil partener este certificată de reprezentantul legal al instituției în cadrul căreia a fost derulat grantul sau contractul	0.00
	Director sau responsabil partener grant național	1 punct = 50000 RON		0.00
RIA-CTR	Director contract cu beneficiar din mediul economic internațional	1 punct = 2000 EUR	Sunt luate în considerare sumele încasate exclusiv de instituția în care a fost derulat grantul (la proiectele tip consoțiu se consideră suma alocată instituției)	0.00
	Director contract cu beneficiar din mediul economic național	1 punct = 10000 RON		3.21
Contribuție complementară în calitate de membru echipă cercetare grant/proiect				
RIA-GRA	Membru echipă grant internațional	0,25 puncte = 10000 EUR	Calitatea de membru echipă proiect se certifică de instituția care a derulat proiectul, cu condiția ca membrul în echipa de proiect să încaseze manoperă	3.87
	Membru echipă grant național	0,25 puncte = 50000 RON		262.55
RIA-CTR	Membru echipă contract cu beneficiar din mediul economic internațional	0,25 puncte = 2000 EUR	Punctajul pentru sumele prevăzute la RIA-GRA și RIA-CTR este de 0.25 puncte pentru membru în echipă, în loc de 1 punct pentru director / responsabil partener	0.00
	Membru echipă contract cu beneficiar din mediul economic național	0,25 puncte = 10000 RON		1.00
Total				270.64

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3.1.1. RIA-GRA - Director granturi internaționale

1 punct = 10000 EUR

Nr.	Detalii	Suma alocată UTBv [EUR]	Formula	Punctaj
1			/10000	0.00
2			/10000	0.00
Total				0.00

3.1.2. RIA-GRA - Director granturi naționale

1 punct = 50000 RON

Nr.	Detalii	Suma alocată UTBv [RON]	Formula	Punctaj
1			/50000	0.00
2			/50000	0.00
Total				0.00

Total RIA-GRA director 0

3.1.4. RIA-CTR - Director contract cu beneficiar din mediul economic național

1 punct = 10000 RON

Nr.	Detalii	Suma alocată UTBv [RON]	Formula	Punctaj
1	Contract cu beneficiar din mediul economic național	32130.00	32130/10000	3.21
Total				3.21

Total RIA-CTR director 3.21

3.2.1. RIA-GRA - Membru granturi internaționale

0,25 puncte = 10000 EUR

Nr.	Detalii	Suma alocată UTBv [EUR]	Formula	Punctaj
1	BioEnergyTrain, BET, Program H2020, apel H2020-LCE-2014-2, Finantator: CE, DG Research contract: GA Nr. 656760, perioada: 2015-2019	64931.00	64931/4/10000	1.62
2	Sustainable autonomous system for nitrites/nitrates and heavy metals monitoring of natural water sources / sistem autonom durabil de monitorizare a surselor de apă naturală pentru nitriți / nitrați și metale grele, WaterSafe, M-ERA.NET, finantator: PNIII Cooperare Europeana și Internațională contract: 39/2016, perioada: 2016-2018	90000.00	90000/4/50000	2.25
Total				3.87

3.2.2. RIA-GRA - Membru granturi naționale

0,25 puncte = 50000 RON

Nr.	Detalii	Suma alocată UTBv [RON]	Formula	Punctaj
1	Demonstrator și tehnologie de laborator pentru suprafețe bazate pe colectoare solar-termice plan-plate de tip triunghi (Sol Tri Col), finantator: PN-III-P2-2.1-PED-2016-0338, perioada: 2017-2018	600000.00	600000/4/50000	3.00
2	Demonstrator și tehnologie în flux continuu bazată pe reactor de fotocataliză și adsorbție în film subțire pentru epurarea avansată a apelor (PhotoCatFlow), finantator: PN-III-P2-2.1-PED-2016-0514, perioada: 2017-2018	600000.00	600000/4/50000	3.00
3	Cresterea competitivității SC ELDON SRL prin optimizarea tehnologiei de fabricație a dulapurilor industriale de podea, finantator: PN-III-P2-2.1-BG-2016-0349, contract: 102BG/2015, perioada: 2016-2018	460000.00	460000/4/50000	2.30
4	Sistem inovativ integrat materiale-Tehnologie-Echipament pentru procese simultane de fotocataliză și adsorbție aplicate în epurarea sustenabilă a apelor uzate - SimFotoAd, finantator: PARTENERIATE, contract: 217/2014, perioada: 2014-2016	385000.00	385000/4/50000	1.93
5	Sistem inovativ sustenabil pentru auto-decontaminarea fotocatalitică a echipamentelor de protecție CBRN - CB-PhotoDeg, finantator: PARTENERIATE, contract: 282/2014, perioada: 2014-2016	321659.00	321659/4/50000	1.61
6	Efectul norilor asupra radiației solare (ECSOL-PROGNOSIS), finantator: CAPACITATI - Cooperare România-Cipru, contract: 765/2014, perioada: 2014-2015	42620.00	42620/4/50000	0.21
7	Sisteme solar termice eficiente cu acceptanță ridicată pentru implementare în mediul urban (EST IN URBA), finantator: PARTENERIATE, contract: 28/2012, perioada: 2012-2016	1300000.00	1300000/4/50000	6.50
8	Institut de Cercetare Dezvoltare Inovare: Produse High-Tech pentru Dezvoltare Durabilă (PRO-DD), finantator: ANCS, Gov. României, UTBv - Fonduri structurale, contract: POS-CCE-A2-O2.2.1-2007-1, ID 123, SMIS 2637 + Capacitati-I-2007-2, contract: 11/2009, perioada: 2012-2013	48800692.93	48800692.93/4/50000	244.00
Total				262.55

Total RIA-GRA membru 266.42

3.2.4. RIA-CTR - Membru echipă contracte cu beneficiari din mediul economic național

0,25 puncte = 10000 RON

Nr.	Detalii	Suma alocată UTBv [RON]	Formula	Punctaj
1	Îmbunătățirea performanțelor funcționale ale dulapurilor Multiflex, finantator: ELDON SRL, contract: 162/2016, perioada: 2016	40000.00	40000/4/10000	1.00
Total				1.00

Total RIA-CTR membru 1.00