

Anexa nr.5 - Metodologia de concurs pentru ocuparea posturilor didactice și de cercetare vacante din UTCEB – Lista de lucrări publicate

Candidat	CATALINA Tiberiu
Lista celor maximum 10 lucrări relevante pentru realizările profesionale ale candidatului. (pentru ocuparea postului de profesor universitar se vor specifica lucrările realizate după dobândirea atestatului de abilitare).	
1	<i>Correlation between air and sound propagation to determine air permeability of buildings for single/double wood pane windows</i> , Tiberiu Catalina , V Iordache, F Iordache, Energy and Buildings, Volum 224, Pages 110253,2020, LINK
2	<i>Indoor air quality assesment in a classroom using a heat recovery ventilation unit</i> , Tiberiu Catalina , MA ISTRATE, A DAMIAN, A VARTIRES, T DICU, A CUCOȘ, Romanian Journal of Physics, Volume 64, Page 819,2019, LINK
3	<i>Survey and measurements of indoor environmental quality in urban/rural schools located in Romania</i> , Tiberiu Catalina , Stefan Alexandru Ghita, Lelia Letiția Popescu, Răzvan Popescu International Journal of Environmental Research and Public Health, 2022, Volume 19, Issue 16, Pages 10219 LINK
4	<i>Study of the Impact of Indoor Environmental Quality in Romanian Schools through an Extensive Experimental Campaign</i> , Tiberiu Catalina , Andrei Damian, Andreea Vartires, Applied Sciences, 2023, Volume14, Issue 1, Pages 234, LINK
5	<i>Experimental analysis of energy production of a hybrid thermal-photovoltaic solar panel enhanced with phase-change material</i> , Ana Listarhov, T Catalina* , IOP Conference Series: Earth and Environmental Science, 2023, Volume, 1185, Issue 1 Pages 012002, * correspondent, LINK .
6	<i>Experimental investigation of an enhanced transpired air solar collector with embodied phase changing materials</i> , Andrei - Stelian Bejan, Cristiana Croitoru, Florin Bode, Cătălin Teodosiu, Tiberiu Catalina , Journal of Cleaner Production, Volume 336, 15 February 2022, 130398,2022, LINK
7	<i>Experimental investigation of transpired solar collectors with/without phase change materials</i> , Andrei-Stelian BEJAN, Catalin TEODOSIU, Cristian CROITORU, Tiberiu CATALINA and Ilinca NASTASE, Solar Energy, Volum 214, Paginile 478-490, 2021, LINK
8	<i>Energy efficiency versus indoor environmental quality in different Romanian countryside schools</i> , Stefan GHITA, Tiberiu CATALINA* , Energy and Buildings, Volum 92, Ianuarie 2015, Paginile 140-154,2015 * correspondent, LINK
9	<i>Experimental investigation on the sound pressure level for a high thermal capacity burner during a running cycle</i> , Tiberiu CATALINA , Vlad IORDACHE, Applied Acoustics, Volum 74, Numar 5, Mai 2013, Paginile 708-717,2013, LINK
10	<i>Long-term analysis of indoor air quality and thermal comfort in a public school</i> , Tiberiu Catalina , Andrei Damian, Andreea Vartires, M Niță, V Racovițeanu IOP Conference Series: Earth and Environmental Science, 2023 Volume, 1185, Issue 1, Pages 012008, LINK
A. Teza sau tezele de doctorat	
A1	Titlul lucrării: Estimation of the building's energy consumptions and analysis of renewable energy systems using a multi-criteria decision methodology Instituția: Institut National des Sciences Appliquees de Lyon, INSA-Lyon, Laborator CETHIL (Centre de Thermique de Lyon), Franța
B. Brevete de invenție și alte titluri de proprietate intelectuală	
C. Cărți și capitole din cărți	
C1	Tiberiu CATALINA , Protectia la zgomot – volumul 1, Editura MATRIXROM, 2015, ISBN volum 1 - 978-606-25-0219-5.
C2	Tiberiu CATALINA , Utilizarea surselor de energie regenerabila in cladiri, Editura MATRIXROM, 2015, ISBN:978-606-25-0167-9. http://www.matrixrom.ro/romanian/editura/domenii/cuprins.php?cuprins=SEGO
C3	Tiberiu CATALINA , Claudiu BUTACU, Mihai-Toader PASTI, Andrei BEJAN, Ioana PRODAN S. A., Case eficiente energetic de la teorie la practica. Casa solara EFdeN, Editura MATRIXROM, 2015,

	ISBN:978-606-25-0168-6 http://www.matrixrom.ro/romanian/editura/domenii/cuprins.php?cuprins=CETO					
C4	Vlad IORDACHE, Tiberiu CATALINA , Acustica cladirii si a instalatiilor. Aplicatii proiectare, Editura MATRIXROM, 2014, ISBN:978-973-755-909-8.					
C5	Tiberiu CATALINA , Acustica cladirilor si a instalatiilor. Culegere de probleme, Editura Conspress, 2012, SBN: 978-973-100-231-6					
C6	Tiberiu CATALINA Utilisation des energie renouvelables adaptees au batiments, Universitatea Tehnica de Constructii Bucuresti, Matrix ROM, ISBN: 978-606-25-0856-2, https://www.matrixrom.ro/produs/utilisation-des-energie-renouvelables-adaptees-au-batiments/					
C7	Ionut Costinel Mares, Tiberiu Catalina , Cercetări experimentale privind eficiența sistemelor de remediere la propagarea radonului în clădiri de locuit, Editura Matrix Rom, ISBN: 978-606-25-0888-3 https://www.matrixrom.ro/produs/cercetari-experimentale-privind-eficienta-sistemelor-de-remediere-la-propagarea-radonului-in-cladiri-de-locuit/					
C8	Dogeanu A., Lungu C., Burchiu E, Tiberiu Catalina , Nicolae A. - Îndrumător de lucrări practice de laborator - Instalații de încălzire, Editura Conspress ISBN 978-973-100-485-3					
D. Articole / studii in extenso, publicate în reviste din fluxul științific internațional principal						
Articole ISI/ISI Proceedings						
	Titlu	Autori	Revista	Volum/pagini	IF	Link
D1	Pollution Levels in Indoor School Environment—Case Studies	Vasilica Vasile, Tiberiu Catalina , Alina Dima, Mihaela Ion	Atmosphere	2024, Volume, 15, Issue 4, Pages 399	2.9	LINK
D2	Study of Heat Recovery Equipment for Building Applications	Lelia Letitia Popescu, Razvan Stefan Popescu, Tiberiu Catalina	Buildings	2023, Volume 13, Pages 3125,	3.8	LINK
D3	Experimental analysis of energy production of a hybrid thermal-photovoltaic solar panel enhanced with phase-change material	Ana Listarhov, T Catalina* * corespondent	IOP Conference Series: Earth and Environmental Science	2023, Volume 1185, Issue 1, Pages 012002	-	LINK
D4	Long-term analysis of indoor air quality and thermal comfort in a public school	Tiberiu Catalina , Andrei Damian, Andreea Vartires, M Niță, V Racovițeanu	IOP Conference Series: Earth and Environmental Science	2023, Volume 1185, Issue 1 Pages, 012008	-	LINK
D5	The applicability of decentralized ventilation equipment in radon mitigation from existing homes	Ionut Costinel Mares, Tiberiu Catalina* * corespondent	IOP Conference Series: Earth and Environmental Science	2023, Volume 1185, Issue 1 Pages 012002	-	LINK
D6	Study of the Impact of Indoor Environmental Quality in Romanian Schools through an Extensive Experimental Campaign	Tiberiu Catalina , Andrei Damian, Andreea Vartires	Applied Sciences	2023, Volume14, Issue 1, Pages 234	2.7	LINK
D7	Survey and measurements of indoor environmental quality in	Tiberiu Catalina , Stefan Alexandru Ghita, Lelia Letiția	International Journal of Environmental	2022, Volume 19, Issue 16 Pages 10219	3.39	LINK

	urban/rural schools located in Romania	Popescu, Răzvan Popescu	Research and Public Health			
D8	Indoor particle's pollution in Bucharest, Romania	Lelia Letitia Popescu, Razvan Stefan Popescu, Tiberiu Catalina	Toxics	2022, Volume 10, Issue 12 Pages 757	4.6	LINK
D9	Experimental investigation of an enhanced transpired air solar collector with embodied phase changing materials	Andrei - Stelian Bejan, Cristiana Croitoru, Florin Bode, Cătălin Teodosiu, Tiberiu Catalina	Journal of Cleaner Production	Volume 336, 15 February 2022, 130398,2022	9.297	LINK
D10	Experimental investigation of transpired solar collectors with/without phase change materials	Andrei-Stelian BEJAN, Catalin TEODOSIU, Cristian CROITORU, Tiberiu CATALINA and Ilinca NASTASE	Solar Energy	Volum 214, Paginile 478-490, 2021	4.608	LINK
D11	Comprehensive survey on radon mitigation and indoor air quality in energy efficient buildings from Romania	BD Burghele, M Botoș, S Beldean-Galea, A Cucuș, Tiberiu Catalina , T Dicu, G Dobrei, Ș Florică, A Istrate, A Lupulescu, M Moldovan, D Niță, B Papp, I Pap, K Szacsvai, C Sainz, A Tunyagi, A Ţenter	Science of The Total Environment	Volume 751, Pages 141858,2021	6.551	LINK
D12	Experimental and numerical analysis on the influence of glazed balconies on energy consumption and indoor environment of communist-era flats in Romania	Tiberiu Catalina , C. Lungu	Science and Technology for the Built Environment	Pages 1-14,2021	1.356	LINK
D13	On the tracks of heat losses reduction for an educational heritage building by using dynamic simulations	Tiberiu Catalina , Roxana Stanica	ENERGY and ENVIRONMENT (CIEM)	2021 10th International Conference on ENERGY and ENVIRONMENT (CIEM),2021		LINK
D14	Improving Speech Intelligibility in A High School Classroom Using Sound Absorbing Panels	Alexandra Ene, Tiberiu Catalina	Romanian Journal of Acoustics and Vibration	Volume 18, Issue 1, pages 40-45,2021		LINK
D15	Improving the Energy Efficiency of an Existing Building by Dynamic Numerical Simulation	Lelia Letitia Popescu, Razvan Stefan Popescu, Tiberiu Catalina	Applied Sciences	Volume 11, Issue 24, pages 12150,2021	2.679	LINK

D16	Research on Best Solution for Improving Indoor Air Quality and Reducing Energy Consumption in a High-Risk Radon Dwelling from Romania	Ion-Costinel Mares, Tiberiu Catalina* , Marian-Andrei Istrate, Alexandra Cucos, Tiberius Dicu, Betty Denissa Burghele, Kinga Hening, Lelia Letitia Popescu, Razvan Stefan Popescu * corespondent	International Journal of Environmental Research and Public Health	Volume 18, Issue 34, pages 12842,2021	3.39	LINK
D17	Evaluation of indoor air pollutants in 100 retrofit residential buildings from Romania during cold season	Mihail Simion Beldean-Galea, Tiberius Dicu, Alexandra Cucos, Bety-Denissa Burghele, Tiberiu Catalina , Marius Botoş, Ancuţa Ţenter, Kinga Szacsvai, Alexandru Lupulescu, Istvan Pap, Gabriel Dobrei, Mircea Moldovan, Arthur Tunyagi, Ştefan Florică, Vlad Pănescu, Carlos Sainz	Journal of Cleaner Production	Volum 277, Pages 124098,2020	7.246	LINK
D18	Experimental and simulation performance investigation of a hybrid PV/T solar panel	M Baiceanu, Tiberiu Catalina* , A Damian * corespondent	2020 7th International Conference on Energy Efficiency and Agricultural Engineering (EE&AE)	IEEE, Pages 1-5,2020		LINK
D19	Assesment of sound pressure levels using experimental and numerical modelling of a complex office space	H Dragne, Tiberiu Catalina* , A Damian * corespondent	2020 7th International Conference on Energy Efficiency and Agricultural Engineering (EE&AE)	IEEE, Pages 1-5,2020		LINK
D20	The influence of solar-shading systems on an office building cooling load	Andrei Damian, Razvan-Gabriel Filip, Tiberiu Catalina , Rodica	2020 7th International Conference on Energy	IEEE, Pages 1-4,2020		LINK

		Frunzulică, Gilles Notton	Efficiency and Agricultural Engineering (EE&AE)			
D21	Correlation between air and sound propagation to determine air permeability of buildings for single/double wood pane windows	Tiberiu Catalina , V Iordache, F Iordache	Energy and Buildings	Volum 224, Pages 110253,2020	4.867	LINK
D22	The path from geology to indoor radon	Ștefan Florică, Bety-Denissa Burghele, Nicoleta Bican-Brișan, Robert Begy, Vlad Codrea, Alexandra Cucoș, Tiberiu Catalina , Tiberius Dicu, Gabriel Dobrei, Andrei Istrate, Alexandru Lupulescu, Mircea Moldovan, Dan Niță, Botond Papp, Istvan Pap, Kinga Szacsvai, Ancuța Țenter, Teofana Sferle, Carlos Sainz	Environmental geochemistry and health	Volum 42, Issue 9, Pages 2655- 2665,2020	3.472	LINK
D23	Variation of Indoor Radon Concentration within a Residential Complex	Teofana Sferle, Gabriel Dobrei, Tiberius Dicu, Bety- Denissa Burghele, Nicoleta Brișan, Alexandra Cucos, Tiberiu Catalina , Andrei Istrate, Alexandru Lupulescu, Mircea Moldovan, Dan Niță, Botond Papp, Istvan Pap, Kinga Szacsvai, Ștefan Florică, Ancuța Țenter, Carlos Sainz	Radiation protection dosimetry	Oxford University Press, Volum 189, Issue 3, Pages 279- 285,2020	0.831	LINK
D24	An innovative system for monitoring radon and indoor air quality	A Tunyagi, T Dicu, A Cucos, BD Burghele, G Dobrei, A Lupulescu, M Moldovan, D Nita, B Papp, I Pap, K Szacsvai, A Tenter,	Romanian Journal of Physics	Volume 65, Page 803,2020	1.197	LINK

		MS Beldean-Galea, M Anton, S Grecu, L Cioloca, R Milos, ML Botos, CG Chiorean, Tiberiu Catalina , MA Istrate, Carlos Sainz Fernández				
D25	EfDeN Prototype-A Sustainable and Low Energy Consumption House Presented at Solar Decathlon 2014	Tiberiu Catalina , Mihai Baiceanu, Eduard-Daniel Raducanu, Mihai Toader Pasti, Claudiu Butacu	Conference on Sustainable Energy	Springer, Cham, 2017/10/19, Pages 70-79,2019	0	LINK
D26	Correlation Analysis of Air Transfer and Sound Wave Transfer	Vlad Iordache, Camelia Gavrilă, Tiberiu Catalina , Florin Iordache, Marta Zaharia, Ioana Alexe, ENE Ciprian	Romanian Journal of Acoustics and Vibration	Volume 16, Issue 1, Pages 84-90,2019		LINK
D27	INDOOR AIR QUALITY ASSESSMENT IN A CLASSROOM USING A HEAT RECOVERY VENTILATION UNIT	Tiberiu Catalina , MA ISTRATE, A DAMIAN, A VARTIRES, T DICU, A CUCOȘ	Romanian Journal of Physics	Volume 64, Page 819,2019	1.197	LINK
D28	Indoor Environmental Quality Experimental Studies in an Energy-efficient Building. Case study: EFdeN Project	Andrei Stelian BEJAN, Tiberiu CATALINA , Traian MUNTEANU	Energy Procedia	Energy Procedia 112, 269-276,2017	0	LINK
D29	Noise Propagation Analysis in an Office Building using Numerical Simulations	Elena Zorilă, Tiberiu Catalina* * corespondent	Romanian Journal of Acoustics and Vibration	Vol.1, Issue 1, Pag. 28-32,2017	0	LINK
D30	Acoustic Measurements inside a Vehicle with Different Air Prototype Diffusers	Alexandra Angelescu, Tiberiu Catalina* , Andreea Vartires * corespondent	Romanian Journal of Acoustics and Vibration	Vol.1, Issue 1, Pag. 15-20,2017	0	LINK
D31	Permeability measurements of a passive house during two construction stages	Vlad IORDACHE, Raluca TEODOSIU, Tiberiu CATALINA* , Cătălin TEODOSIU * corespondent	Energy Procedia	Energy Procedia 85C (2016) pp. 279-287,2016	0	LINK
D32	The implementation of Phase Changing Materials in energy-efficient buildings. Case Study: EFdeN Project	Andrei Stelian BEJAN, Tiberiu CATALINA* * corespondent	Energy Procedia	Energy Procedia 85C (2016) pp. 52-59,2016	0	LINK
D33	Experimental measurements of VOC	Andrei ISTRATE, Tiberiu	Energy Procedia	Energy Procedia 85C	0	LINK

	and Radon in two Romanian classrooms	CATALINA* , Alexandra CUCOȘ, Tiberiu DICU * corespondent		(2016) pp. 288-294,2016		
D34	Analysis of radon concentrations in a radioactive working space	Cătălin CIOBANU, Tiberiu CATALINA* , Gheorghe DOGARU * corespondent	Energy Procedia	Energy Procedia 85C (2016) pp. 118-124,2016	0	LINK
D35	A critical regard on Romanian regulations related to Indoor Environment Quality in Operating Rooms and a technical case study	Laurențiu TĂCUTU, Ilinca NĂSTASE, Tiberiu CATALINA	Energy Procedia	Energy Procedia 85 (2016) 511 – 520,2016	0	LINK
D36	Energy efficiency versus indoor environmental quality in different Romanian countryside schools	Stefan GHITA, Tiberiu CATALINA* * corespondent	Energy and Buildings	Volum 92, Ianuarie 2015, Paginile 140-154,2015	2.973	LINK
D37	Multiple regression model for fast prediction of the heating energy demand	Tiberiu CATALINA , Vlad IORDACHE, Bogdan CARACALEANU	Energy and Buildings	Volum 57, Februarie 2013, Paginile 302-312,2013	2.884	LINK
D38	Experimental investigation on the sound pressure level for a high thermal capacity burner during a running cycle	Tiberiu CATALINA , Vlad IORDACHE	Applied Acoustics	Volum 74, Numar 5, Mai 2013, Paginile 708-717,2013	1.74	LINK
D39	IEQ assessment on schools in the design stage	Tiberiu CATALINA , Vlad IORDACHE	Building and Environment	Volum 49, Martie 2012, Paginile 129-140,2012	3.34	LINK
D40	Acoustic approach for building air permeability estimation	Vlad IORDACHE , Tiberiu CATALINA*	Building and Environment	Volum 57, Noiembrie 2012, Paginile 18-27,2012	3.34	LINK
D41	Numerical Modelling of Combined Heat Transfers in a Double Skin Façade-Full Scale Laboratory Experiment Validation	Frederic KUZNIK, Tiberiu CATALINA , Lucie GAUZERE, Jean Jacques ROUX, Monika WOLOSZYN	Applied Thermal Engineering	Volum 31, Numar 14-15, Octombrie 2011, Paginile 3043-3054,2011	2.064	LINK
D42	Multi-source energy systems analysis using a multi-criteria decision aid methodology	Tiberiu CATALINA , Joseph VIRGONE, Eric BLANCO	Renewable Energy	Volum 36, Numar 8, August 2011, Paginile 2245-2252,2011	2.978	LINK
D43	Evaluation of thermal comfort using combined CFD and	Tiberiu CATALINA , Joseph VIRGONE, Frederic KUZNIK	Building and Environment	Volum 44, Numar 8, August 2009,	2.32	LINK

	experimentation study in a test room equipped with a cooling ceiling			Paginile 1740-1750,2009		
D44	Development and validation of regression models to predict monthly heating demand for residential buildings	Tiberiu CATALINA , Joseph VIRGONE, Eric BLANCO	Energy and Buildings	Volum 40, Numar 10, 2008, Paginile 1825-1832,2008	1.59	LINK
Articole BDI						
D45	Determination of thermal and acoustic comfort inside a vehicle's cabin	Alexandra Ene, Tiberiu Catalina , Andreea Vartires	E3S Web of Conferences	Vol. 32, Pages 01002, 2021		LINK
D46	Decentralized Ventilation System in Classrooms– Analysis on the Indoor Air Quality and Energy Consumption	Tiberiu Catalina , Andrei Damian, Andreea Vartires, Alina Dima, Vasilica Vasile	2023 11th International Conference on ENERGY and ENVIRONMENT (CIEM) IEEE	Pages 1-5		LINK
D47	Health Assessment and Indoor Environmental Quality in Multiple Romanian Rural Schools	SA Ghita, T Catalina , C Lungu	IOP Series: Earth and Environmental Science	Volume 664, Issue 1, Pages 012038		LINK
D48	The effects of thermal insulation on the interior noise level during the day. A case study of a 1960 block of flats located in downtown Bucharest	VV Toma, S Antonie, T Catalina	IOP Series: Earth and Environmental Science	Volume 664, Issue 1, Pages 012097		LINK
D49	EFdeN Signature-a case study of a zero-energy house prototype optimized for Middle East climate	M Baiceanu, T Catalina , G Ilisei, A Chelariu	IOP Series: Earth and Environmental Science	Volume 664, Issue 1, Pages 012096		LINK
D50	Influence Of A Decentralized Ventilation System On The Indoor Air Quality Of A Primary School Classroom	T Catalina , C Lungu	IOP Series: Earth and Environmental Science	Volume 664, Issue 1, Pages 012039		LINK
D51	Experimental research of mitigation systems for controlling and reducing radon exposure in residential buildings	IC Mareş, T Catalina , A Istrate, T Dicu, A Cucuş	Proceedings Of International Conference Building Services And Energy Efficiency	Sciendo, Pages 1-14, 2021		LINK
D52	Experimental study of the impact of air purifiers on the indoor air quality inside of an apartment	T Catalina , AE Feraru	Proceedings Of International Conference Building Services And Energy Efficiency	Sciendo, Pages 84-92, 2021		LINK
D53	Numerical simulation of a hybrid solar geothermal energy system used for an energy positive building	T Catalina , R Gavriiuc, C Gherasim	Proceedings Of International Conference Building	Sciendo, Pages 129-136, 2021		LINK

			Services And Energy Efficiency		
D54	Building performance indicators and IEQ assessment procedure for the next generation of EPC-s	Karl-Villem Vösa, Andrea Ferrantelli, Dragomir Tzanev, Kamen Simeonov, Pablo Carnero, Carlos Espigares, Miriam Navarro Escudero, Pedro Vicente Quiles, Thibault Andrieu, Florian Battezzati, Katia Cordeiro, Francis Allard, Zoltan Magyar, Giusy Turturiello, Luca Alberto Piterà, Simona d'Oca, Eric Willems, Peter Veld Op't, Andrei Vladimir Lițiu, Cătălin Lungu, Tiberiu Catalina , Jarek Kurnitski	Cold Climate HVAC & Energy 2021	E3S Web of Conferences 246, 13003	LINK
D55	Real scale experimental study for performance evaluation of unidirectional air diffuser perforated panels	Laurențiu Tăcutu, Ilinca Nastase, Vlad Iordache, Tiberiu Catalina , Cristiana Verona Croitoru	E3S Web of Conferences	Vol. 32, Pages 01014, 2020	LINK
D56	Studiu privind impactul reabilitărilor termice asupra consumurilor energetice ale școlilor din România	Tiberiu CATALINA , Marian Grigore, Alexandra ENE	Revista Romana de Inginerie Civila	Vol. 10, Iss. 1, (2019): 12-26.	LINK
D57	Experimental investigation of the charge/discharge process for an organic PCM macroencapsulated in an aluminium rectangular cavity	Andrei-Stelian Bejan, Abdelouhab Labihi, Cristiana Verona Croitoru, Tiberiu Catalina , Hassan Chehouani, Brahim Benhamou	E3S Web of Conferences	Vol. 32, Pages 01004, 2019	LINK
D58	Adaptation of buildings to climate change through bioclimatic strategies, in Romania	A Bodale, T Catalina , SC Ionuț	E3S Web of Conferences	Volume 111, Page 06071	LINK
D59	Optimal cost-efficiency solution of acoustic treatment for a complex meeting room	C Bailescu, V Iordache, T Catalina	E3S Web of Conferences	Volume 111, Page 02073	LINK
D60	Parametric simulation study for green roof retrofit over high performance solar house prototype "EFdeN Signature"	M Baiceanu, T Catalina	E3S Web of Conferences	Volume 111, Page 04012	LINK
D61	Glazed balconies impact on energy consumption of multi-story buildings	T Catalina , D Bortis, A Vartires, C Lungu	E3S Web of Conferences	Volume 111, Page 06079	LINK

D62	Visual and acoustic performance of shading devices–real scale laboratory measurements	Tiberiu Catalina , Alexandra Ene, Andreea Biro	E3S Web of Conferences	of	Volume 111, Page 06072	LINK
D63	Studies on acoustic comfort in a passive house	Catalin Bailescu, Tiberiu Catalina , Vlad Iordache	E3S Web of Conferences	of	Volume 111, Page 06080	LINK
D64	Numerical analysis of the impact of natural ventilation on the Indoor Air Quality and Thermal Comfort in a classroom	George-Mădălin Chitaru, Andrei Istrate, Tiberiu Catalina	E3S Web of Conferences	of	Volume 111, Page 01023	LINK
D65	Sensitivity analysis using simulations for a ground source heat pump–implementation on a solar passive house	G Ilisei, T Catalina , R Gavriluic	E3S Web of Conferences	of	Volume 111, Page 01070	LINK
D66	Experimental study of an innovative glazed solar air collector tested in real conditions	Andrei Stelian BEJAN, Tiberiu CATALINA , Daniel Barbu MOCANESCU and Alexandra ENE	Doctoral School UTCB 2018		E3S Web of Conferences 85, Paper 04007, 2019	LINK
D67	Implementation of a geothermal heat pump system in a solar passive house	Tiberiu CATALINA , Gherghe ILISEI, Alexandru MARIAN and Robert GAVRILIUIC	Doctoral School UTCB 2018		E3S Web of Conferences 85, Paper 07014, 2019	LINK
D68	Mesh independency study for an elementary perforated panel part of an air solar collector	Andrei-Stelian BEJAN, Florin BODE, Tiberiu CATALINA and Catalin TEODOSIU	Doctoral School UTCB 2018		E3S Web of Conferences 85, 02017, 2019	LINK
D69	Challenges in achieving a high indoor air quality in an educational building	Andreea Vartires, Andrei Damian, Andrei Olariu, Andrei Istrate, Tiberiu Catalina , Elena Zorilă	Revista Romana de Inginerie Civila		Vol.9, issue 1, Pages 28-41	LINK
D70	Assessing the performance of led lighting in a classroom-simulations versus experiments	Tiberiu Catalina , Alexandra Ene, Andrei Marian Istrate	Revista Romana de Inginerie Civila		Vol.9, issue 2, Pages 120-127	LINK
D71	Numerical Evaluation of the Solar Collectors Selfshading Related to their Building Integration	Andrei Damian, Marian Alexandru, Tiberiu Catalina	Mathematical Modelling in Civil Engineering		Vol.13, Issue 4, Pages 12-26	LINK
D72	Analysis of the thermal and acoustic comfort of a BREEAM certified office building	Iulian Nitu, Tiberiu Catalina	Acta Technica Napocensis: Civil Engineering & Architecture		Vol.61, no.1, anul 2018	LINK
D73	Comparison of indoor air pollutants concentration in two Romanian classrooms	Vasilica Vasile; Dima, Alina; Zorila, Elena; Istrate, Andrei; Tiberiu CATALINA	E3S Web of Conferences	of	,Vol. 32, Pages 01023, 2018	LINK
D74	Air solar collectors in building use-A review	Andrei-Stelian Bejan, Abdelouhab Labihi, Cristiana Croitoru, Tiberiu CATALINA	E3S Web of Conferences	of	Vol. 32, Pages 01003, 2018	LINK

D75	Impact of Nocturnal Natural Ventilation On the Energy Consumption of Buildings	Felicia Uciu, Tiberiu Catalina , Andreea Vartires, Iolanda Colda	Mathematical Modelling		LINK
D76	Obtinerea confortului de vara fara utilizarea climatizarii, prin ventilare nocturna	Felicia Uciu, Andreea Vartires, Tiberiu Catalina , Iolanda Colda	RRIC		LINK
D77	Thermal comfort comparison between two classrooms with different ventilation systems	Tiberiu CATALINA Andreea Vartires, Andrei Olariu, Elena Zorila, Andrei Damian, Andrei M.Istrate	Acta Technica Napocensis: Civil Engineering & Architecture		LINK
D78	IMPACT OF VENTILATION ON THE INDOOR PARTICULATE MATTER CONCENTRATIONS IN A SCHOOL	Razvan Popescu, Andrei Istrate, Tiberiu CATALINA	BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI	Vol.63(67), nr.4, 2017	LINK
D79	INDOOR RADON RELATED WITH THE GEOLOGY IN ROMANIAN URBAN AGGLOMERATIONS (CLUJ-NAPOCA)	Ștefan FLORICĂ, Tiberius DICU, Bety-Denissa BURGHELE, Mircea MOLDOVAN, Kinga SZACSVAI, Anca ȚENTER, Botond PAPP, Simion BELDEAN, Andrei ISTRATE, Tiberiu CATALINA , Arthur TUNYAGI, Cristina HORJU-DEAC, Andreea RĂCHIȘAN, Teofana SFERLE, Gabriel DOBREI, Carlos SAINZ, Alexandra CUCOȘ	STUDIA AMBIENTUM UBB	LXII, 2, 2017, pp. 29-36	LINK
D80	Experimental Assessment of the Indoor Environmental Quality in an educational facility	Tiberiu CATALINA , Vlad IORDACHE, Andrei ENE	RRIC	Vol.4, nr.3, 2014	LINK
D81	Thermal comfort analysis in a passive house using dynamic simulations	Tiberiu CATALINA	RRIC	Vol.4, nr.3, 2014	LINK
D82	Analysis of Thermal Comfort for a Romanian Rural School Using Experimental Measurements and Dynamic Simulations	Stefan GHITA, Tiberiu CATALINA	ACTA Technica Napocensis	Vol.57, nr.2, 2014	LINK
D83	Plafond rafraîchissant, confort thermique associé et risques de condensation	Tiberiu CATALINA , Joseph VIRGONE	Revue Générale du Froid	Pag. 34-41, 2014	LINK
D84	Experimental Study Of Acoustic Barriers In Urban Environment	Tiberiu CATALINA , Vlad IORDACHE, George CRACIUNESCU	RRIC	Vol. 5, nr.1, 2014	LINK


D85	IMPACT OF INDOOR ENVIRONMENTAL CONDITIONS ON STUDENTS INTELLECTUAL PERFORMANCE	Tiberiu CATALINA, Teodor BANU	Bulletin of the Polytechnic Institute of Iasi		LINK
D86	Improving energy efficiency in rural schools by using renewable energy systems	Stefan GHITA, Tiberiu CATALINA	Mathematical Modelling		LINK
D87	Indoor air quality improvement in a classroom using an evaporative cooling ventilation system	Andrei ISTRATE, Tiberiu CATALINA, Horatiu DRAGNE	Mathematical Modelling		LINK
D88	Experimental Investigation of the Reverberation Time Inside a Complex Geometry Indoor Space	Vlad IORDACHE, Tiberiu CATALINA, Bogdanel Marius CUCU	RJAV	Vol. 10, nr.2, 2013	LINK
D89	Eight Year Period Analysis for Outdoor Pollutant Concentration Levels in Bucharest	Valentin RADU, Vlad IORDACHE, Tiberiu CATALINA	Bulletin of the Polytechnic Institute of Iasi	Vol.63, Nr.6, 2013	LINK
D90	Experimental and numerical investigation of indoor comfort and energy consumption in a typical romanian classroom for different glazing areas	Tiberiu CATALINA, Razvan POPESCU, Nicolae BAJENARU, Andrei ENE	Mathematical Modelling		LINK
D91	glazing area impact on the visual and acoustic comfort: application on schools' environment	Tiberiu CATALINA, Joseph VIRGONE	Mathematical Modelling		LINK
D92	RAPID ASSESSMENT PROCEDURE OF THE HEATING SYSTEM ENERGY PERFORMANCE OF A BUILDING.	Florin IORDACHE, Tiberiu CATALINA, Vlad IORDACHE	Mathematical Modelling		LINK
D93	BUILDING DESIGN OPTIMIZATION USING A NEW PREDICTION MODEL FOR THE HEATING ENERGY CONSUMPTION.	Tiberiu CATALINA	Mathematical Modelling		LINK
D94	RADIANT COOLING CEILING THERMAL PERFORMANCE ANALYSIS USING DYNAMIC SIMULATIONS AND FULL-SCALE EXPERIMENTAL CAMPAIGNS.	Tiberiu CATALINA	Mathematical Modelling		LINK
D95	IMPROVING ENERGY CONSUMPTION AND INDOOR COMFORT OF AN OLD PRIMARY SCHOOL.	Tiberiu CATALINA	Mathematical Modelling		LINK
D96	Study on the melting and solidification in a glass block	Frederic KUZNIK, Tiberiu CATALINA, Joseph	Mathematical Modelling	Vol.37,2010	LINK

	containing a phase change material	VIRGONE, Kevin JOHANNES			
D97	Multi-criteria decision analysis of multi-source systems and renewable energy integration	Tiberiu CATALINA Joseph VIRGONE, Eric BLANCO	Mathematical Modelling	Nr. 4, 2010	LINK
D98	Impact of moisture buffering on energy performance of cooling ceilings	Tiberiu CATALINA , Joseph VIRGONE, Monika WOLOSZYN	ANNEX 41		LINK

E. Publicații în extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate.					
E1	Tiberiu CATALINA , Florin IORDACHE, Vlad IORDACHE, <i>New method for quick evaluation of the heating energy demand of residential buildings</i> , IBPSA Aix les Bains, 2013 LINK				
E2	Tiberiu CATALINA , Joseph VIRGONE, Vlad IORDACHE, <i>Study on the impact of the building form on the energy consumption</i> , Proceedings of Building Simulation, 2011 LINK				
E3	Tiberiu CATALINA , Joseph VIRGONE, <i>Cooling energy demand evaluation by means of regression models obtained from dynamic simulations</i> , ICEBO, 2011 LINK				
E4	Tiberiu CATALINA , <i>Indoor Conditions Study and Impact on the Energy Consumption for a Large Commercial Building</i> , Energy Systems Laboratory (http://esl.tamu.edu), 2011 LINK				
E	Tiberiu CATALINA , Joseph VIRGONE, Eric BLANCO, <i>Carbon footprint study of a zero energy consumption residential construction</i> , ISES Solar World Congress 2011, 2011 LINK				
E6	Tiberiu CATALINA , Joseph VIRGONE, Eric BLANCO, <i>Building design and thermal renovation measures proposal by means of regression models issued from dynamic simulations</i> , CLIMA 2010 LINK				
E7	Tiberiu CATALINA , Joseph VIRGONE, Eric BLANCO, <i>Création de modèles de régression pour prédire les consommations d'énergie des bâtiments à partir de simulations numériques</i> , CIFQ 2009 LINK				
E8	Tiberiu CATALINA , Joseph VIRGONE, Jean-Jacques ROUX, Eric BLANCO, <i>Effet de l'inertie thermique, de la surface vitrée et du coefficient de forme sur les besoins en chauffage d'une habitation</i> , Congrès IBPSA, 2008 LINK				
E9	Tiberiu CATALINA , Joseph VIRGONE, Eric BLANCO, <i>Développement d'un outil pour l'optimisation des besoins d'une habitation et le choix des systèmes à énergie renouvelable</i> , Congrès IBPSA, 2008 LINK				
E10	Tiberiu CATALINA , Joseph VIRGONE, Eric BLANCO, <i>Impact of building morphology, thermal inertia and glazed area on the energy consumption of residential houses</i> , Proceedings of the 29th Air Infiltration and Ventilation Center Conference-AIVC, Japon, 2008 LINK				
E11	Tiberiu CATALINA , Joseph VIRGONE, Eric BLANCO, <i>Development of a support tool for building design optimization and renewable energy integration</i> , PLEEA 2008 LINK				
E12	Tiberiu CATALINA , Joseph VIRGONE, <i>Study on the cooling ceiling's effect on thermal comfort and energy consumption in an office space for different climates in Europe</i> , Palenc, 2007 LINK				

E13	Tiberiu CATALINA , Joseph VIRGONEE, <i>Analyse expérimentale du risque de condensation sur la surface d'un plafond rafraîchissant équipé de nattes capillaires</i> , Colloque Interuniversitaire Franco-Québécois-CIFQ 2007 LINK
E14	Tiberiu CATALINA , Joseph VIRGONE, Eric BLANCO, <i>Dynamic simulation regarding the condensation risk on a cooling ceiling installed in an office room</i> , Building Simulation, 2007 LINK
E15	Tiberiu CATALINA , Monika WOLOSZYN, Joseph VIRGONE, <i>Impact of moisture buffering on energy performance of cooling ceilings</i> , Annex 41 meeting Lyon, 2006 LINK
E16	Tiberiu CATALINA , Joseph VIRGONE, Jean-Jacques MARTIN, <i>Evaluation of performances, thermal comfort and energy consumption of a reversible radiant ceiling by capillary mat: application for the prefabricated buildings</i> , EPIC November, 2006, Pag. 467-472 LINK
F. Contracte	
F1	Titlul proiectului: Evaluarea prin modele de regresie a consumului de energie in cladiri si integrarea sistemelor folosind energii regenerabile prin utilizarea unei analize decizionale Referința: Funding Application for Research Projects for Young Research Teams - PN-II-RU-RP-03-2010 - Proiect de cercetare pentru stimularea revenirii în țară a cercetătorilor Finanțator: UEFISCDI-CNCS Unitatea Executivă pentru finanțarea învățământului superior, a cercetării dezvoltării și inovației Durată proiect: 01 octombrie 2010 – 30 septembrie 2012 Bugetul proiectului: 381 021 RON Domeniu: Utilizarea energiilor neconvenționale si eficienta energetica a clădirilor
F2	Titlul proiectului: Optimization of Indoor Environmental Quality & Energy Efficiency in educational facilities using a multi-criteria decision approach (EDU-Quality) Referința: Funding Application for Research Projects for Young Research Teams - PN-II-RU-TE-2012-3-0108 Finanțator: UEFISCDI-CNCS Unitatea Executivă pentru finanțarea învățământului superior, a cercetării dezvoltării și inovației Durată proiect: 01 Mai 2013 – 30 Septembrie 2016 Bugetul proiectului: 683 000 RON
F3	Titlul proiectului: Sistem inteligent de monitorizare si predictie a consumului de energie si a calitatii mediului interior in cladiri Referința: Granturi Naționale de Cercetare - ARUT Finanțator: ARUT- UTCB Durată proiect: 01 August 2023 – 31.07.2024 Bugetul proiectului: 50 000 RON
F4	Titlul proiectului: Analiza experimentală și numerică a unui panou hibrid solar PV/T îmbunătățit prin materiale cu schimbare de fază Referința: Competiție internă UTCB Finanțator: UTCB Durată proiect: 01 August 2021 – 15 Noiembrie 2021 Bugetul proiectului: 60 000 RON
F5	Titlul proiectului: Studiu exploratoriu asupra calității aerului interior și implementarea de soluții eficiente în clădirile educaționale din România Referința: Competiție internă UTCB Finanțator: UTCB

Durată proiect: 01 Septembrie 2022 – 20 Noiembrie 2022 Bugetul proiectului: 63 283 RON

Candidat Conf. Univ. dr. habil. Ing. CS1 Tiberiu CATALINA	Semnătura 	Data 29.05.2024
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Indicații completare tabel:

1. Se pot adăuga numărul necesar de rânduri pentru fiecare categorie
2. În **lista de lucrări publicate** se includ numai lucrările deja publicate (se exclud lucrările aflate în procesare la edituri, în manuscris sau alte lucrări de tip comunicări, referate tematice, etc).
3. fiecare lucrare, în coloana alăturată celei cu indicativul se scriu în ordine :
 - a. autorii (cu sublinierea candidatului) ;
 - b. titlul lucrării respectiv editura și /sau alte elemente de localizare (revista, ISSN);
 - c. paginile, anul publicării
4. În cadrul categorii de lucrări se prezintă cronologic.
5. Lucrările reeditate care nu au adus contribuții noi ale candidatului și lucrarea de bază (inițială) se înregistrează sub același indicativ, precizându-se la fiecare numărul de pagini.
6. **Cărți si capitole din cărți** – scrieri publicate cu o anumită tematică de întindere relativ mare, de tip :
 - a. culegere si îndrumare (colecții de probleme sau metodologii pentru activitatea de laborator, proiectare etc),
 - b. manual (lucrare care cuprinde elemente de bază ale unei discipline de învățământ),
 - c. monografie (studiu tehnic - științific amplu asupra unui subiect) sau
 - d. tratat (lucrare cu caracter deosebit în care sunt expuse metodic problemele fundamentale ale unei discipline)
 - e. care se grupează și respectiv, se prezintă în ordinea:
 - i. (Ca) – cărți tipărite de edituri centrale (EDP, ET, EAR, etc.).
 - ii. (Cb) – cărți tipărite de tipografii locale (de instituții).
7. **Articole** – expuneri scrise cu caracter științific, de întindere relativ redusă, publicate în reviste din fluxul internațional principal.
8. **Publicații** – expuneri scrise cu caracter științific, de întindere relativ redusă, publicate în volumele unor manifestări științifice internaționale de specialitate (congrese, conferințe, simpozioane).
9. **Contracte** – lucrări tehnico-științifice, efectuate pentru o anumită instituție de către instituția la care este salariat candidatul (se vor specifica contractele la care candidatul este responsabil).