FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR MINIMALE CNATDCU

Domeniul fundamental: Științe inginerești
Domeniul: Ingineria Autovehiculelor
Comisia CNATDCU de specialitate: Inginerie Aerospațială, Autovehicule și Transporturi
Autorul tezei de abilitare: Conf. dr. ing. Dan MOLDOVANU

1. ACTIVITATEA DIDACTICĂ ȘI PROFESIONALĂ (A1)

Nr. crt.	Domeniul	Tipul activităților	Categorii și restricții	Subcategorii	Indicatori (kpi)	Realizat
0	1	2	3	4	5	6
1	Activitatea didactică și profesională (A1)	1.1 Cărți și capitole în cărți de specialitate	1.1.1 Cărți/capitole, ca autor, în edituri naționale sau internaționale recunoscute de comisia CNATDCU Profesor: minimum 4; Conf: minimum 2	1.1.1.1 internaționale	nr. pag/(2*nr. autori)	**1 carte 65,5 puncte**
				1.1.1.2 naționale	nr. pag/(5*nr. autori)	**4 cărți 14,47 puncte**
			1.1.2 Cărți, ca editor	1.1.2.1 internaționale	nr. pag/(3*nr. editori)	-
				1.1.2.2 naționale	nr. pag/(7*nr. editori)	-
		1.2 Materiale didactice/lucrări didactice	1.2.1 Manuale didactice/monografii: Profesor/CS I minimum 2, din care 1 prim-autor; Conferențiar/CS II minimum 1		nr. pag/(10*nr. autori)	**2 manuale, din care 2 prim-autor 20,70 puncte**
			1.2.2 Îndrumare de laborator/aplicații; Profesor/CS I – minimum 2, din care 1 prim-autor; Conferențiar/CS II – minimum 1		nr. pag/(20*nr. autori)	**3 îndrumare de laborator, din care 1 prim-autor 14,37 puncte**
		1.3 Organizare și coordonare programe de studii	1.3.1. Director/responsabil		10* (nr. ani de desfășurare)	-
			1.3.2. Membru		3*(nr. ani de desfășurare)	-
		1.4 Conducere proiecte de diplomă și disertație	Max. 50 puncte		1/1,5	**48 pr. Diplomă 53 pr. Disertație = 50 puncte**
		1.5 Introducere discipline și laboratoare noi, confirmate prin manuale și îndrumare publicate	1.5.1 Discipline noi (max. 40 puncte împreună cu 1.5.2)		10	**4 discipline noi = 40 puncte**
			1.5.2 Lucrări noi de laborator (max. 40 puncte împreună cu 1.5.1)		2/lucrare	-
		1.6 Director/responsabil programe parteneriat			20/activitate	-

		academic internațional/Erasmus				
2	Activitatea de cercetare științifică (A2)	2.1 Articole in extenso în reviste cotate și proceedings indexate ISI Thomson Reuters sau SAE	Profesor, CS I: Minimum 11 articole sau 60 puncte, din care minimum 1 articol în revistă cotată ISI Conferențiar, CS II: Minimum 6 articole sau 30 puncte		(25+20*factor impact)/nr. autori	**21 articole, din care 10 articole cu factor de impact = 366,94 puncte**
		2.2 Brevete de invenție	2.2.1 Internaționale		25/nr. autori	-
			2.2.2 Naționale		20/nr. autori	-
		2.3 Articole publicate în reviste naționale și volumele unor manifestări științifice indexate în BDI recunoscute de comisia CNATDCU[1].	Profesor/CS I: minimum 30 puncte; minimum 5 articole Conf./CS II: minimum 20 puncte, minimum 3 articole		20/nr. autori	**13 articole 98,38 puncte**
		2.4 Articole publicate în reviste naționale și volumele unor manifestări științifice naționale și internaționale, neindexate			5/nr. autori	**1,67 puncte**
		2.5 Granturi/proiecte câștigate prin competiție/de cercetare/consultanță pentru mediul economic	2.5.1 Director/responsabil: Profesor/CS I: minim 2 granturi sau valoare contracte cu mediu economic minimum 200.000 lei, Conf./CS II: Minim 1 grant sau val. Contracte cu mediu economic minimum 100.000 lei	2.5.1.1 internaționale	20*nr. ani desfășurare (1 an = 12 luni)	-
				2.5.1.2 naționale	10*nr. ani desfășurare (1 an = 12 luni)	-
				2.5.1.3 Contracte de cercetare cu mediul economic		**2 contracte = 35,83 puncte**
				2.5.1.4 Contracte de consultanță pentru mediul economic		-
			2.5.2 Membru în echipă - confirmare prin documente oficiale	2.5.2.1 internaționale	4*nr. ani desfășurare (1 an = 12 luni)	**3 granturi = 27,65 puncte**
				2.5.2.2 naționale	2*nr. ani desfășurare (1 an = 12 luni)	**5 granturi = 7,15 puncte**
3	Recunoașterea performanțelor profesionale și impactul activității (A3)	3.1 Citări în reviste ISI și BDI (fără autocitări)		3.1.1 ISI cu factor de impact — Profesor/ CS I: minimum 40 p. Conf./CS II: minimum 20 p.	20/nr. autori	**153 citări = 698,45 puncte**
				3.1.2 ISI fără factor de impact	15/nr. autori	-
				3.1.3 BDI	10/nr. autori	-
		3.2 Prezentări în plenul unor manifestări științifice naționale și internaționale	3.2.1 Internaționale		20	–
			3.2.2 Naționale		10	–

		3.3 Profesor invitat, în cadrul acordurilor academice internaționale și programelor de colaborare cu instituții și firme internaționale, inclusiv programele Erasmus + (predare)			30	–
		3.4 Membru în colectivele de redacție sau comitetele științifice ale revistelor sau manifestărilor științifice. Organizator de manifestări științifice/Recenzor	3.4.1 Reviste ISI cu factor de impact	3.4.1.1 Membru în comitetul științific/editor	15	–
				3.4.1.2 Recenzor	10/articol recenzat	–
			3.4.2. Reviste ISI fără factor de impact/proceedings ISI	3.4.2.1 Membru în comitetul științific/editor	10	–
				3.4.2.2 Recenzor	5/articol recenzat	-
			3.4.3 Reviste/manifestări științifice indexate BDI	3.4.3.1 Membru în comitetul științific/editor	8	-
				3.4.3.2 Recenzor	2/articol recenzat	-
			3.4.4 Reviste/manifestări științifice neindexate	3.4.4.1 Membru în comitetul științific/editor	5	-
				3.4.4.2 Recenzor	1/articol Recenzat	–
		3.5 Experiență de management, analiză și evaluare în cercetare și/sau învățământ	3.5.1 Organizații internaționale	3.5.1.1 Conducere	10*nr ani desfășurare	–
				3.4.2 Membru/evaluator	5*nr. ani desfășurare	–
			3.5.2 Organizații naționale	3.5.2.1 Conducere	5*nr. ani desfășurare	–
				3.5.2.2 Membru/evaluator	2*nr. ani desfășurare	–
		3.6 Referent în comisii de doctorat/abilitare; Membru în echipe de îndrumare doctorat	3.6.1 Internațional		10	–
			3.6.2 Național		5	**Membru 7 comisii = 35 puncte**
		3.7 Premii/distincții	3.7.1 Academia Română		30	**1 premiu = 30 puncte**
			3.7.2 Academii de ramură și CNCSIS		15	–
			3.7.3 Premii internațio-nale în domeniu		10	–
			3.7.4 Premii naționale în domeniu		5	–
		3.8 Membru în academii, organizații, asociații profesionale de prestigiu, naționale și	3.8.1 Academia Română		100	–
			3.8.2 Academii de ramură		30	–
			3.8.3 Conducere	3.8.3.1 Internaționale	30	–

		internaționale, apartenență la organizații din domeniul educației și cercetării	asociații profesionale	3.8.3.2 Naționale	15	-
			3.8.4 Membru în asociații profesionale	3.8.4.1 Internaționale	10	-
				3.8.4.2 Naționale	5	**10 puncte**
			3.8.5 Organizații din domeniul educației și cercetării	3.8.5.1 Conducere	15	–
				3.8.5.2 Membru	10	–

[1]Scopus, SpringerLink, FISITA, SAE Papers, IEEE Xplore, Science Direct, Engineering Village, Compendex, Index Copernicus, ProQuest, EBSCO, CrossRef, DOAJ, Wiley, Elsevier, ACM, TRID, TRIS, ITRD, Ulrich's Periodicals, SCIRUS, REPEC, Geobase.

Centralizator de îndeplinire a Stadardelor minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior și a gradelor profesionale de cercetare – dezvoltare

Nr. crt.	Domeniul de activitate	Conferențiar				Profesor			
		Condiții Conferențiar	Punctaj realizat de candidat	Îndeplinirea standardelor minimale naționale		Condiții Profesor	Punctaj realizat de candidat	Îndeplinirea standardelor minimale naționale	
				DA	NU			DA	NU
1	Activitatea didactică și profesională (A1)	Minimum 100 puncte				Minimum 180 puncte	**205,31 puncte**	✓	
2	Activitatea de cercetare științifică (A2)	Minimum 100 puncte				Minimum 200 puncte	**537,59 puncte**	✓	
3	Recunoașterea performanțelor profesionale și impactul activității (A3)	Minimum 50 puncte				Minimum 100 puncte	**873,45 puncte**	✓	

Structura detaliată a activității candidatului Conf. dr. ing. Dan Moldovanu

1. Activitatea didactică și profesională (A1)

1.1 Cărți și capitole în cărți de specialitate

1.1.1 Cărți/capitole, ca autor, în edituri naționale sau internaționale recunoscute de comisia CNATDCU **Profesor: minimum 4**

1.1.1.1 Internaționale

Nr. crt.	Autori	Titlu capitol / carte	Indicator (kpi)	Nr. pagini	Nr. autori	Punctaj
1	Bogdan Ovidiu Varga Florin Mariasiu Dan Moldovanu Calin Iclodean	Electric and Plug-In Hybrid Vehicles-Advanced Simulation Methodologies Link: https://link.springer.com/book/10.1007/978-3-319-18639-9	nr. pag/ (2*nr. autori)	524	4	65,5
					Subtotal 1.1.1.1	**65,5**

1.1.1.2 Naționale

Nr. crt.	Autori	Titlu capitol / carte	Indicator (kpi)	Nr. pagini	Nr. autori	Punctaj
1	**Dan Moldovanu** Prunean Gabriel Horațiu Cărăușan Cordoș Nicolae	Applied Modeling and Control with MATLAB & Simulink, Ed. Napoca Star, 2025, 110 pag, ISBN 978-630-354-141-9 Link: https://drive.google.com/file/d/1SbpPhPeeewNu-chGdrJh7a48LtgPRvoa/view?usp=drive_link	nr. pag/ (5*nr. autori)	110	4	5,5
2	**Dan Moldovanu** Prunean Gabriel Horațiu Cărăușan Cordoș Nicolae	Modelare și control aplicat utilizând MATLAB și Simulink, Ed. Napoca Star, 2025, 113 pag, ISBN 978-630-354-143-3 Link: https://drive.google.com/file/d/18Pm6ii2s-qKNoMwvvTujV7RX-vvpe0WG/view?usp=drive_link		113	4	5,65
3	Barabás István, Burnete Nicolae, Mariașiu Florin, Todoruț Adrian, Varga Bogdan Ovidiu, Bolunduț Liviu Călin, Burnete Nicolae Vlad, Iclodean Călin Doru, **Moldovanu Dan**, Jurchiș Bogdan Manolin, Kocsis Levente Botond, Molea Andreia, Scurtu Iacob-Liviu, Szabo Ioan, Buidin Thomas Imre Cyrille, Cărăușan Horațiu, Duma Irina, Szîrbe Andrei Călin	TENDINȚE TEHNOLOGICE ÎN DOMENIUL AUTOVEHICULELOR, Ed. UTPRESS, Cluj - Napoca, 2023, ISBN 978-606-737-641-8 Link: https://biblioteca.utcluj.ro/files/carti-online-cu-coperta/641-8.pdf		190	18	2,1
4	Varga, B.O., **Moldovanu Dan**, Mariașiu, F. Iclodean C.D. Yangang Wang, Xiaoping Dai, Guoyou Liu, Yibo Wu, Yun Li Steve Jones Pablo	Modeling and Simulation for Electric Vehicle Applications – Chapter: Simulation in the Loop of Electric Vehicles, Doi 10.5772/61918, ISBN 978-953-51-2637-9, Print ISBN 978-953-51-2636-2, eBook (PDF) ISBN 978-953-51-6678-8. Link: https://www.intechopen.com/books/5299		186	25	1,49

	Moreno-Torres, Marcos Lafoz, Marcos Blanco Jaime R. Arribas Daniel Fodorean Jorge Torres Luis García-Tabarés Muhammad Aziz Takuya Oda Mahmoud Ghofrani, Eric Detert Negar Niromand Hosseini, Amirsaman Arabali, Nicholas Myers Phasith Ngin					
					Subtotal 1.1.1.2	**14,74**
					Subtotal 1.1.1	**80,24**
					Subtotal 1.1	**80,24**

1.2 Materiale didactice/lucrări didactice

1.2.1 Manuale didactice/monografii. **Profesor: minimum 2 din care 1 prim-autor**

Nr. crt.	Autori	Titlu capitol / carte	Indicator (kpi)	Nr. pagini	Nr. autori	Punctaj
1	**Dan Moldovanu**	TEORIA SISTEMELOR ȘI AUTOMATIZĂRI, Dan Moldovanu, Ed. Napoca Star, 2019, ISBN: 978-606-690-924-2 Link: https://drive.google.com/file/d/12WSwBBgQiMOp7o4azVoNuQKZBxEMBwEr/view	nr. pag/ (10*nr. autori)	101	1	10,1
2	**Dan Moldovanu**	Teoria Automatizării Componentelor Autovehiculelor/ Theory and Automatization of Automotive Components, Dan Moldovanu, Vol. 1, 2019, Ed. Napoca Star, ISBN general: 978-606-690-922-8 ISBN vol. I: 978-606-690-923-5 Link: https://drive.google.com/file/d/1iJECb33-mQ8KXo3yG4gJmYvMZE8DytUL/view		106	1	10,6
					Subtotal 1.2.1	**20,7**

1.2.2 Îndrumare de laborator/aplicații. **Profesor: minimum 2, din care 1 prim-autor**

Nr. crt.	Autori	Titlu capitol / carte	Indicator (kpi)	Nr. pagini	Nr. autori	Punctaj
1	Burnete Nicolae Vlad, **Moldovanu Dan**	Elemente de modelare și simulare a motoarelor cu ardere internă, Îndrumător de aplicații, Vol. 1, 2022, Cluj-Napoca, Editura UTPRESS, ISBN: 978-606-737-555-8 Link: https://biblioteca.utcluj.ro/files/carti-online-cu-coperta/555-8.pdf	nr. pag/ (20*nr. autori)	230	2	5,75
	Burnete Nicolae Vlad, **Moldovanu Dan**	Elemente de modelare și simulare a motoarelor cu ardere internă, Îndrumător de aplicații, Vol. 2, 2022, Cluj-Napoca, Editura UTPRESS, ISBN: 978-606-737-592-3 Link: https://biblioteca.utcluj.ro/files/carti-online-cu-coperta/592-3.pdf		266	2	6.65
2	**Moldovanu Dan**, Varga B.O., Vlad Nicolae	Tehnici de Diagnosticare, 2019, Ed. Napoca Star, ISBN: 978-973-53-2365-3 Link: https://drive.google.com/file/d/18H-		118	3	1,967

		w8GYT5enbBXeRAISYk6xWsdaTpN4e/view				
					Subtotal 1.2.2	**14,37**
					Subtotal 1.2	**35,07**

1.3 Organizare și coordonare programe de studii

1.3.1 Director/responsabil

Nr. crt.	Program de studii	Indicator (kpi)	Nr. ani desfășurare	Punctaj
1				
			Subtotal 1.3.1	**0**
			Subtotal 1.3	**0**

1.4 Conducere proiecte de diplomă și disertație. Maxim 50 puncte

1.4.1 Conducere proiecte de diplomă (Dovada)

Nr. crt.	Nume, prenume absolvent	Temă proiect de diplomă	Sesiune susținere	Indicator (kpi)	Punctaj
0	1	2	3	4	5
1	Absolvent nr. 1	ANALIZA PRACTICA A COEFICIENTULUI DE SWIRL A UNUI M.A.C.	2014	1	1
2	Absolvent nr. 2	Simularea adaptarii hartii de injectie a unui MAC pentru functionarea cu amestecuri de biocombustibili, la aceleasi performante.	2014	1	1
3	Absolvent nr. 3	Analiza practica a coeficientului de tumble a unui MAS	2015	1	1
4	Absolvent nr. 4	Analiza prin simulare a influentei rugozitatii galeriei de admisie asupra umplerii	2015	1	1
5	Absolvent nr. 5	Imbunatatirea performantelor galeriei de evacuare a unui M.A.S.	2015	1	1
6	Absolvent nr. 6	Analiza prin simulare a miscarii de tumble	2015	1	1
7	Absolvent nr. 7	Studiul influentei dimensiunilor galeriei de admisie asupra performantelor unui motor cu ardere interna	2015	1	1
8	Absolvent nr. 8	Simularea in Lotus Engine Simulation a performantelor unui motor de motocicleta in patru timpi	2015	1	1
9	Absolvent nr. 9	Studiul CFD al influentei turbulentelor induse in galeria de admisie asupra performantelor unui M.A.I.	2016	1	1
10	Absolvent nr. 10	Studiul materialelor de dimensiuni nanometrice ca si aditivi pentru uleiuri de ungere	2016	1	1
11	Absolvent nr. 11	Analiza in AVL FIRE a jetului de combustibil pentru alimentarea M.A.C. cu amestecuri de biodiesel	2016	1	1
12	Absolvent nr. 12	Analiza practica a jetului de combustibil, pentru alimentarea MAC cu amestecuri de biodiesel.	2016	1	1
13	Absolvent nr. 13	Simularea functionala a sistemului de evacuare a unui automobil BMW M5 E60	2017	1	1
14	Absolvent nr. 14	Crearea si testarea unui stand demonstrativ a curentilor turbionari	2017	1	1
15	Absolvent nr. 15	STUDIUL POTENTIALULUI DE MARIRE A PERFORMANTELOR UNUI MAI PRIN MODIFICAREA GALERIEI DE EVACUARE	2017	1	1
16	Absolvent nr. 16	Studiul influentei miscarii de squish asupra motoarelor cu ardere interna	2017	1	1
17	Absolvent nr. 17	Testarea performatelor unui motor cu ulei de ungere cu nanoaditivi	2017	1	1
18	Absolvent nr. 18	Crearea unui stand demonstrativ de testare a nanofirelor	2017	1	1
19	Absolvent nr. 19	Analiza si simularea influentelor sistemelor moderne de schimbare a gazelor asupra performantelor unui motor cu ardere interna	2017	1	1
20	Absolvent nr. 20	Analiza influentei presiunii de injectie asupra emisiilor poluante a	2017	1	1

		unui M.A.C.			
21	Absolvent nr. 21	Simularea in Matlab a proceselor unui motor cu ardere interna	2017	1	1
22	Absolvent nr. 22	Propulsia unui vehicul electric utilizand un diferential controlat electronic	2017	1	1
23	Absolvent nr. 23	Analiza prin simulare a miscarii de tumble din camera de ardere a unui M.A.I.	2018	1	1
24	Absolvent nr. 24	Optimizarea unei pompe de lichid de racire prin simulare CFD	2018	1	1
25	Absolvent nr. 25	Optimizarea injectiei de combustibil in vederea reducerii emisiilor poluante prin simulare CFD	2018	1	1
26	Absolvent nr. 26	Utilizarea unui modul GPS pentru comanda la distanta a unui semafor pentru autovehicule speciale	2018	1	1
27	Absolvent nr. 27	Posibilitati de imbunatatire a sigurantei rutiere prin monitorizarea datelor bilogice ale conducatorului auto	2018	1	1
28	Absolvent nr. 28	Analiza statistica a defectiunilor autovehiculelor aliantei Renault-Nissan	2019	1	1
29	Absolvent nr. 29	Simularea unui motor HCCI	2019	1	1
30	Absolvent nr. 30	Implementarea unui sistem de conducere autonoma	2019	1	1
31	Absolvent nr. 31	Analiza comparativa a sistemelor de reducere a emisiilor poluante cu catalizator	2019	1	1
32	Absolvent nr. 32	IMPLEMENTAREA DISTRIBUTIEI VARIABILE LA MOTORUL 1.4 MPI	2019	1	1
33	Absolvent nr. 33	Imbunatatirea coeficientului aerodinamic al autovehiculului Renault 5	2019	1	1
34	Absolvent nr. 34	Analiza influentelor constructive ale injectoarelor asupra jetului de combustibil prin simulare CFD	2019	1	1
35	Absolvent nr. 35	Implementarea unui semafor temporizat inteligent	2019	1	1
36	Absolvent nr. 36	Implementarea unui sistem de monitorizare a starii drumurilor de la distanta	2019	1	1
37	Absolvent nr. 37	Imbunatatirea performantelor unui M.A.I. prin modificarea tubulaturii de admisie prin co-simulare	2020	1	1
38	Absolvent nr. 38	Modelarea galeriei de evacuare pentru un MAS	2020	1	1
39	Absolvent nr. 39	Imbunatatirea performantelor unui motor diesel cu injectie indirecta prin simulare	2020	1	1
40	Absolvent nr. 40	Evaluarea consumului de combustibil al unei flote de autocamioane. Studiu de caz.	2020	1	1
41	Absolvent nr. 41	Imbunatatirea performantelor unui MAI prin modificarea tubulaturii de evacuare prin co-simulare	2020	1	1
42	Absolvent nr. 42	Studiul comparativ al instalatiilor actuale de comanda si control al traficului	2020	1	1
43	Absolvent nr. 43	Studiul comparativ al aparatelor de diagnosticare destinate statiilor I.T.P	2021	1	1
44	Absolvent nr. 44	Implementarea virtuala in Matlab a unui sistem de eleron ajustabil	2021	1	1
45	Absolvent nr. 45	Implementarea in Matlab a unui sistem de calcul well to wheel a emisiilor	2021	1	1
46	Absolvent nr. 46	Studiul corelarii erorilor autoinduse la un M.A.I. prin diagnosticare	2021	1	1
47	Absolvent nr. 47	Implementarea unui conducator virtual pentru un autovehicul electric simulat in MATLAB	2021	1	1
48	Absolvent nr. 48	Studiul instalatiei de comanda si control pentru implementarea unui sistem de managent al traficului	2021	1	1
				Subtotal 1.4.1	**48**

1.4.2 Conducere proiecte de disertație (Dovada)

Nr. crt.	Nume, prenume absolvent	Temă proiect de diplomă	Sesiune susținere	Indicator (kpi)	Punctaj
0	1	2	3	4	5
1	Absolvent nr. 1	Studiul influentei dimensiunilor galeriei de evacuare asupra performantelor unui motor cu ardere interna	2017	1,5	1,5
2	Absolvent nr. 2	Analiza statistica a defectiunilor autovehiculelor aliantei Renault-Nissan	2019	1,5	1,5
3	Absolvent nr. 3	Simularea unui motor HCCI	2019	1,5	1,5
4	Absolvent nr. 4	Implementarea unui sistem de conducere autonoma	2019	1,5	1,5
5	Absolvent nr. 5	Analiza comparativa a sistemelor de reducere a emisiilor poluante cu catalizator	2019	1,5	1,5
6	Absolvent nr. 6	IMPLEMENTAREA DISTRIBUTIEI VARIABILE LA MOTORUL 1.4 MPI	2019	4	5
7	Absolvent nr. 7	Imbunatatirea coeficientului aerodinamic al autovehiculului Renault 5	2019	1,5	1,5
8	Absolvent nr. 8	Analiza influentelor constructive ale injectoarelor asupra jetului de combustibil prin simulare CFD	2019	1,5	1,5
9	Absolvent nr. 9	Implementarea unui semafor temporizat inteligent	2019	1,5	1,5
10	Absolvent nr. 10	Implementarea unui sistem de monitorizare a starii drumurilor de la distanta	2019	1,5	1,5
11	Absolvent nr. 11	Imbunatatirea performantelor unui M.A.I. prin modificarea tubulaturii de admisie prin co-simulare	2020	4	5
12	Absolvent nr. 12	Modelarea galeriei de evacuare pentru un MAS	2020	1,5	1,5
13	Absolvent nr. 13	Imbunatatirea performantelor unui motor diesel cu injectie indirecta prin simulare	2020	1,5	1,5
14	Absolvent nr. 14	Evaluarea consumului de combustibil al unei flote de autocamioane. Studiu de caz.	2020	1,5	1,5
15	Absolvent nr. 15	Imbunatatirea performantelor unui MAI prin modificarea tubulaturii de evacuare prin co-simulare	2020	1,5	1,5
16	Absolvent nr. 16	Studiul comparativ al instalatiilor actuale de comanda si control al traficului	2020	1,5	1,5
17	Absolvent nr. 17	Studiul comparativ al aparatelor de diagnosticare destinate statiilor I.T.P	2021	1,5	1,5
18	Absolvent nr. 18	Implementarea virtuala in Matlab a unui sistem de eleron ajustabil	2021	1,5	1,5
19	Absolvent nr. 19	Implementarea in Matlab a unui sistem de calcul well to wheel a emisiilor	2021	1,5	1,5
20	Absolvent nr. 20	Studiul corelarii erorilor autoinduse la un M.A.I. prin diagnosticare	2021	1,5	1,5
21	Absolvent nr. 21	Implementarea unui conducator virtual pentru un autovehicul electric simulat in MATLAB	2021	1,5	1,5
22	Absolvent nr. 22	Studiul instalatiei de comanda si control pentru implementarea unui sistem de managent al traficului	2021	1,5	1,5
23	Absolvent nr. 23	Modelarea si calibrarea unui actuator pentru acceleratie in MATLAB Simulink	2021	1,5	1,5
24	Absolvent nr. 24	Integration and CFD simulation of a catalytic converter	2021	1,5	1,5
25	Absolvent nr. 25	Dezvoltarea unui model de monopost fara sofer si controlul acestuia (Formula Student Driverless)	2021	1,5	1,5
26	Absolvent nr. 26	DEVELOPMENT OF A DEMONSTRATIVE BENCH WITH AN ELECTRIC MOTOR AND PID CONTROL, PROGRAMMED WITH MATLAB SIMULINK	2021	1,5	1,5
27	Absolvent nr. 27	Testarea virtuala a unui motor cu incarcare tranzitorie in Lotus Engine Simulation	2022	1,5	1,5
28	Absolvent nr. 28	Imbunatatirea controlului unui turbocompresor cu supapa de bypass in Lotus Engine Simulation	2022	1,5	1,5

29	Absolvent nr. 29	Studiul comparativ al performantelor dinamice ale autovehiculelor implementat in Matlab	2022	1,5	1,5
30	Absolvent nr. 30	Implementarea unui sistem de urmarire globala dedicat remorcilor cu microcontroller	2022	1,5	1,5
31	Absolvent nr. 31	Dezvoltarea unui sistem de testare in bucla inchisa utilizand MATLAB	2022	1,5	1,5
32	Absolvent nr. 32	Analiza Perimetrului De Siguranta La Planificarea Traiectoriei Vehiculelor Autonome	2022	1,5	1,5
33	Absolvent nr. 33	Dezvoltarea si simularea in MATLAB a unui model de baterie Li-Ion	2022	1,5	1,5
34	Absolvent nr. 34	Implementarea unui ECU (pe baza de microcontroller) pentru un MAS	2022	1,5	1,5
35	Absolvent nr. 35	Dezvoltarea unui sistem de management al bateriei pentru un monopost Formula Student	2022	1,5	1,5
36	Absolvent nr. 36	Dezvoltarea unui sistem de optimizare a rutei pentru autovehicule electrice	2022	1,5	1,5
37	Absolvent nr. 37	Dezvoltarea de strategii si control pentru implementarea vectorizării momentului utilizând MATLAB / SIMULINK	2022	1,5	1,5
38	Absolvent nr. 38	Controlul unui turbocompresor utilizand Matlab	2023	1,5	1,5
39	Absolvent nr. 39	Analiza si optimizarea prin simulare CFD a miscarii de tumble la un MAS	2023	1,5	1,5
40	Absolvent nr. 40	Analiza si optimizarea prin simulare CFD a miscarii de swirl la un MAS	2023	1,5	1,5
41	Absolvent nr. 41	Analiza CFD a unui port de admisie destinat motoarelor de curse	2023	1,5	1,5
42	Absolvent nr. 42	Studiu privind controlul directiei asistate electric	2023	1,5	1,5
43	Absolvent nr. 43	Dezvoltarea unui sistem de control al tractiunii	2023	1,5	1,5
44	Absolvent nr. 44	Optimizarea designului de baterie a unui autovehicul electric utilizand MATLAB	2023	1,5	1,5
45	Absolvent nr. 45	Implementarea unui sistem de suspensie activ in MATLAB Simulink folosing metoda de control LQR	2023	1,5	1,5
				Subtotal 1.4.2	**67,5**
				Subtotal 1.4	**50**

1.5 Introducere discipline și laboratoare noi, confirmate prin manuale și îndrumare publicate

1.5.1 Discipline noi (max. 40 puncte împreună cu 1.5.2) – (Dovada)

Nr. crt.	Disciplină	Linia de studiu	Indicator (kpi)	Punctaj
1	Teoria automatizarii componentelor autovehiculelor I	Tehnici Avansate in Ingineria Autovehiculelor (Master)	10	10
2	Teoria automatizarii componentelor autovehiculelor II	Tehnici Avansate in Ingineria Autovehiculelor (Master)	10	10
3	Instalatii de Comanda si Controlul Circulatiei	Ingineria Transporturilor si Trafic (Licență)	10	10
4	Controlul de baza in Ingineria Autovehiculelor	Sisteme de Management si Control ale Autovehiculelor (Master)	10	10
			Subtotal 1.5.1	**40,00**
			Subtotal 1.5	**40,00**

TOTAL A1: 205,31 puncte

2. Activitatea de cercetare științifică (A2)

2.1 Articole in extenso în reviste cotate și proceedings indexate ISI Thomson Reuters sau SAE. Profesor: Minimum 11 articole sau 60 puncte, din care minimum 1 articol în revistă cotată ISI

Nr. crt.	Autori	Titlu articol / revistă (conferință)	Indicator (kpi)	Factor de impact	Nr. autori	Punctaj
0	1	2	3	4	5	6
1	Mariașiu, F., Burnete, N.V., **Moldovanu, D.,** Varga, B.O., Iclodean, C., Kocsis, L.	Effects of bioethanol ultrasonic generated aerosols application on diesel engine performances, Thermal Science, 2015, ISSN: 0354-9836 Dovada factor impact in 2015 (publicat): https://jcr.clarivate.com/jcr-jp/journal-profile?journal=THERM%20SCI&year=2015	(25+20 *factor impact)/ nr. autori	0.939	6	7.30
2	Dan Moldovanu, Florin Mariașiu,	INFLUENCES OF CHEMICAL CHARACTERISTICS AND NANOADDITIVE PARTICIPATION ON RAW VEGETABLE OILS' TRIBOLOGICAL PROPERTIES, The Brazilian Society of Mechanical Sciences and Engineering 2017, DOI 10.1007/s40430-017-0740-x Dovada factor impact in 2017 (publicat): https://jcr.clarivate.com/jcr-jp/journal-profile?journal=J%20BRAZ%20SOC%20MECH%20SCI&year=2017	(25+20 *factor impact)/ nr. autori	1.627	2	28.77
3	Dan Moldovanu, Nicolae Burnete	CFD SIMULATION OF A SINGLE CYLINDER RESEARCH ENGINE WORKING WITH BIODIESEL, Thermal Science, International Scientific Journal, citation impact factor 0.838. Data acceptare: 2012-01-07, Referinta DOI: 10.2298/TSCI111004021M. Scopus & WOS Dovada factor impact in 2013 (publicat): https://jcr.clarivate.com/jcr-jp/journal-profile?journal=THERM%20SCI&year=2012	(25+20 *factor impact)/ nr. autori	0.962	2	22.12
4	Motogna, M. S., Moldovanu, D., & Mariasiu, F.	Numerical Analysis of Fuel Flow Patterns at the Nozzle Exit Considering Different Fuels and Operating Parameters of a Diesel Engine. Transactions of FAMENA, 42(4), 63-74, ISI factor 0.797, - autor corespondent Dovada factor impact in 2018 (publicat): https://www.bioxbio.com/journal/T-FAMENA	(25+20 *factor impact)/ nr. autori	0.704	3	13.03
5	Gaspar, Ferenc, Teodora Deac, Lucian V. Fechete Tutunaru, and Dan Moldovanu	"Experimental study on the sun tracking ability of a spherical solar collector." Energy Procedia 85 (2016): 220-227. WOS Factor de impact 0 (ISI Proceedings Paper).	(25+20 *factor impact)/ nr. autori	0	5	5.00
6	J Mattson, NV Burnete, C Depcik, D Moldovanu, N Burnete	Second law analysis of waste cooking oil biodiesel versus ULSD during operation of a CI engine, Fuel/0016-2361 Dovada factor impact in 2019 (publicat): https://jcr.clarivate.com/jcr-jp/journal-profile?journal=FUEL&year=2019	(25+20 *factor impact)/ nr. autori	5.578	5	27.31
7	Burnete, Nicolae Vlad, Florin Mariasiu, Christopher Depcik, Istvan Barabas, and Dan Moldovanu	Review of thermoelectric generation for internal combustion engine waste heat recovery." Progress in Energy and Combustion Science 91 (2022): 101009. Dovada factor impact in 2022 (publicat): https://jcr.clarivate.com/jcr-jp/journal-profile?journal=PROG%20ENERG%20COMBUST&year=2022	(25+20 *factor impact)/ nr. autori	29.5	5	123.00
8	Burnete, Nicolae Vlad,	Simulink model of a thermoelectric generator for vehicle waste heat recovery." Applied Sciences 11, no. 3 (2021): 1340.	(25+20 *factor	2.838	4	20.44

	Florin Mariasiu, Dan Moldovanu, and Christopher Depcik	Dovada factor impact in 2021 (publicat): https://jcr.clarivate.com/jcr-jp/journal-profile?journal=APPL%20SCI-BASEL&year=2021	impact)/ nr. autori			
9	Moldovanu, D., A. Molea, and I. Barabás.	Preliminary results on nano-diamond and nano-graphite testing as additive for an engine lubrication oil." In IOP Conference Series: Materials Science and Engineering, vol. 724, no. 1, p. 012047. IOP Publishing, 2020 WOS Factor de impact 0 (ISI Proceedings Paper).	(25+20 *factor impact)/ nr. autori	0	3	8.33
10	Dan, Moldovanu, Varga Bogdan, Mariasiu Florin, Iclodean Calin, Burnete Nicolae Vlad, Mihali Liviu, and Ola Sebastian	Van Dynamics Performance Analysis for Different Battery Pack Placement." In Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018) IV, pp. 338-345. Springer International Publishing, 2019 WOS Factor de impact 0 (ISI Proceedings Paper).	(25+20 *factor impact)/ nr. autori	0	7	3.57
11	Vlad, Burnete Nicolae, Șerdean Florina, Burnete Nicolae, and Moldovanu Dan	Combustion Analysis for Single Cylinder Engine Running on Various Types of Diesel." In Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018) IV, pp. 593-600. Springer International Publishing, 2019. WOS Factor de impact 0 (ISI Proceedings Paper).	(25+20 *factor impact)/ nr. autori	0	4	6.25
12	Bagameri, Norbert, Bogdan Ovidiu Varga, Dan Moldovanu, Aron Csato, and Dimitrios Karamousantas	Analysis of Range Extended Hybrid Vehicle with Rotary Internal Combustion Engine Using AVL Cruise." In Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018) IV, pp. 312-319. Springer International Publishing, 2019 WOS Factor de impact 0 (ISI Proceedings Paper).	(25+20 *factor impact)/ nr. autori	0	5	5.00
13	Moldovanu, D., & MARIAŞIU, F.	"Studies and research regarding optimal cargo load of a transport van using carmaker software." Journal of Automotive Engineering (2018): 135. WOS Factor de impact 0 (ISI Proceedings Paper).	(25+20 *factor impact)/ nr. autori	0	2	12.50
14	Norbert, Bagameri, Varga Bogdan-Ovidiu, Moldovanu Dan, Csato Aron, and Karamousantas Dimitrios	Optimizing Shifting Schedule and Hardware-in-the-Loop Simulation of a Hybrid Vehicle Based on Dual Clutch Transmission. In Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018) (p. 320). Springer. WOS Factor de impact 0 (ISI Proceedings Paper).	(25+20 *factor impact)/ nr. autori	0	5	5.00
15	NV Burnete, RJ Balint, CA Măgherusan, D Moldovanu	Performance, Combustion and Emissions Study of a DI Diesel Engine Running on Several Types of Diesel Fuels Factor de impact 0 (ISI Proceedings Paper).	(25+20 *factor impact)/ nr. autori	0	4	6.25
16	IT Oargă, BO Varga, D Moldovanu, H Cărăușan, G Prunean	Modular Autonomous Vehicles' Application in Public Transport Networks: Conceptual Analysis on Airport Connection, 2024 Dovada factor impact in 2024 (publicat): https://jcr.clarivate.com/jcr-jp/journal-profile?journal=SUSTAINABILITY-BASEL&year=2024	(25+20 *factor impact)/ nr. autori	3.3	5	18.20

17	H Cărăușan, BO Varga, D Moldovanu, G Prunean, IT Oargă	Energy Efficiency Analysis of a Fuel Cell Bus Model Using Real Scenarios Generated by Data Collection, 2024 Dovada factor impact in 2024 (publicat): https://jcr.clarivate.com/jcr-jp/journal-profile?journal=SUSTAINABILITY-BASEL&year=2024	(25+20 *factor impact)/ nr. autori	3.3	5	18.20
18	IT Oargă, G Prunean, BO Varga, D Moldovanu, DD Micu	Comparative Analysis of Energy Efficiency between Battery Electric Buses and Modular Autonomous Vehicles, 2024 Dovada factor impact in 2024 (publicat): https://jcr.clarivate.com/jcr-jp/journal-profile?journal=APPL%20SCI-BASEL&year=2024	(25+20 *factor impact)/ nr. autori	2.5	5	15.00
19	Oargă, Ioan-Tudor, Bogdan Ovidiu Varga, Dan Moldovanu, Gabriel Prunean, and Horațiu Cărăușan.	"Connected and Autonomous Vehicles in Urban Mobility: Technologies, Challenges and Opportunities." In International Congress of Automotive and Transport Engineering, pp. 102-119. Cham: Springer Nature Switzerland, 2024. Factor de impact 0 (ISI Proceedings Paper).	(25+20 *factor impact)/ nr. autori	0	5	5.00
20	Dan Moldovanu, Adela Borzan	"Studies Regarding the Influence of the Squish In-Cylinder Movement of the Air in a Diesel Engine." (2016). Factor de impact 0 (ISI Proceedings Paper).	(25+20 *factor impact)/ nr. autori	0	2	12.50
21	Baldean, Doru, Nicolae Vlad Burnete, Dan Moldovanu, Ferenc Gaspar, Adela Ioana Borzan, and Mihai Aurel Crișan.	"Experimental Research Regarding the Possibility of Biofuel Fumigation Supply Method on a Single Cylinder Compression Ignited Engine." In International Congress of Automotive and Transport Engineering, pp. 264-273. Springer, Cham, 2016. WOS Factor de impact 0 (ISI Proceedings Paper).	(25+20 *factor impact)/ nr. autori	0	6	4.17
					Subtotal 2.1	**366,94**

2.3 Articole publicate în reviste naționale și volumele unor manifestări științifice indexate în BDI recunoscute de comisia CNATDCU[1]. Profesor: minimum 30 puncte, minimum 5 articole

Nr. crt.	Autori	Titlu articol / revistă (conferință)	Indicator (kpi)	Bază de date	Nr. autori	Punctaj
0	1	2	3	4	5	6
1	Moldovanu, Dan, and Florin Mariașiu.	"Numerical analysis of the injection law influence on NOx emissions for a compression ignited engine." In MATEC Web of Conferences, vol. 184, p. 01019. EDP Sciences, 2018. Scopus Link: https://www.scopus.com/record/display.uri?eid=2-s2.0-85054580825&origin=recordpage	20/nr. autori	Scopus	2	10
2	Moldovanu, Dan, Florin Mariașiu, and Norbert Bagameri	"Influence of swirl and tumble motion inside the combustion chamber of a compression ignited engine on vertices formation." In MATEC Web of Conferences, vol. 184, p. 01022. EDP Sciences, 2018. Scopus Link: https://www.scopus.com/record/display.uri?eid=2-s2.0-85054570510&origin=recordpage	20/nr. autori	Scopus	3	6.67
3	Bagameri, Norbert, Bogdan Varga, Aron Csato, and Dan	"Comparative analysis of automatic transmission and manual transmission behaviour on the worldwide harmonized light duty test cycle." In MATEC Web of Conferences, vol. 184, p. 01020. EDP Sciences, 2018. Scopus - autor corespondent Link:	20/nr. autori	Scopus	4	5

	Moldovanu.	https://www.scopus.com/record/display.uri?eid=2-s2.0-85054566710&origin=recordpage				
4	Bagameri, Norbert, Bogdan Varga, Aron Csato, and Dan Moldovanu.	"Optimization of shifting strategy for a dual clutch transmission through mathematical model." In MATEC Web of Conferences, vol. 184, p. 01021. EDP Sciences, 2018. Scopus - autor corespondent Link: https://www.scopus.com/record/display.uri?eid=2-s2.0-85054585220&origin=recordpage	20/nr. autori	Scopus	4	5
5	Baldean, Doru, Dan Moldovanu, and Adela-Ioana Borzan	"Contribution to experimental research of alternate fuel fumigation in single cylinder research diesel engine." In MATEC Web of Conferences, vol. 184, p. 01017. EDP Sciences, 2018. Scopus Link: https://www.scopus.com/record/display.uri?eid=2-s2.0-85054557657&origin=recordpage	20/nr. autori	Scopus	3	6.67
6	Burnete, Nicolae Vlad, Călin Iclodean, Dan Moldovanu, and Nicolae Filip.	"Direct injection of diesel and ethanol in a diesel engine-a numerical analysis." In International Congress of Automotive and Transport Engineering, pp. 379-386. Springer, Cham, 2016. Link: https://link.springer.com/chapter/10.1007/978-3-319-45447-4_42	20/nr. autori	Scopus	4	5
7	VB Magdas, D Moldovanu, DC Mastan - corespondent	Intake and exhaust pipe optimization for an internal combustion engine, IOP Conference Series: Materials Science and Engineering 568 2019 Link: https://www.scopus.com/record/display.uri?eid=2-s2.0-85073428540&origin=recordpage	20/nr. autori	Scopus	3	6.67
8	MS Motogna, D Moldovanu, F Mariasiu - corespondent	Numerical study on the effects of using different concentrations of FAME blends on the spray structure of the injection process, IOP Conference Series: Materials Science and Engineering 568 2019 Link: https://www.scopus.com/record/display.uri?eid=2-s2.0-85073428888&origin=resultslist&sort=plf-f&src=s&sot=b&sdt=b&s=TITLE-ABS-KEY%28Numerical+study+on+the+effects+of+using+different+concentrations+of+FAME+blends+on+the+spray+structure+of+the+injection+process%29	20/nr. autori	Scopus	3	6.67
9	L Scurtu, BO Varga, F Mariasiu, T Buidin, A Borzan, D Moldovanu	Numerical analysis of the SOC factor variations' influence on the autonomy of an electric vehicle, IOP Conference Series: Materials Science and Engineering 568 2019 Link: https://www.scopus.com/record/display.uri?eid=2-s2.0-85073454510&origin=resultslist&sort=plf-f&src=s&sot=b&sdt=b&s=TITLE-ABS-KEY%28Numerical+analysis+of+the+SOC+factor+variations%E2%80%99+influence+on+the+autonomy+of+an+electric+vehicle%29&sessionSearchId=f7a1990b462cf6e5548dc3a7473efd15	20/nr. autori	Scopus	6	3.33
10	D Moldovanu, A Csato, N Bagameri	Flow studies on increasing the efficiency of the inlet manifold, IOP Conference Series: Materials Science and Engineering 568 2019 Link: https://www.scopus.com/record/display.uri?eid=2-s2.0-85073447438&origin=resultslist&sort=plf-f&src=s&sot=b&sdt=b&s=TITLE-ABS-KEY%28Flow+studies+on+increasing+the+efficiency+of+the+inlet+manifold%29&sessionSearchId=f7a1990b462cf6e5548dc3a7473efd15&relpos=10	20/nr. autori	Scopus	3	6.67

11	D Moldovanu, A Csato, N Bagameri	Study regarding the implementation of an Ackerman steering geometry in MATLAB, IOP Conference Series: Materials Science and Engineering 568 2019 Link: https://www.scopus.com/record/display.uri?eid=2-s2.0-85073413304&origin=resultslist&sort=plf-f&src=s&sot=b&sdt=b&s=TITLE-ABS-KEY%28Study+regarding+the+implementation+of+an+Ackerman+steering+geometry+in+MATLAB%29&sessionSearchId=f7a1990b462cf6e5548dc3a7473efd15&relpos=1	20/nr. autori	Scopus	3	6.67
12	D Moldovanu, A Csato	Clutch model and controller development in MATLAB Simulink, IOP Conference Series: Materials Science and Engineering 898 2020 Link: https://www.scopus.com/record/display.uri?eid=2-s2.0-85091489367&origin=resultslist&sort=plf-f&src=s&sot=b&sdt=b&s=TITLE-ABS-KEY%28Clutch+model+and+controller+development+in+MATLAB+Simulink%29&sessionSearchId=f7a1990b462cf6e5548dc3a7473efd15	20/nr. autori	Scopus	2	10
13	D Moldovanu	Implementation in MATLAB Simulink of a basic electric vehicle, IOP Conference Series: Materials Science and Engineering 898 2020 Link: https://www.scopus.com/record/display.uri?eid=2-s2.0-85091489232&origin=resultslist&sort=plf-f&src=s&sot=b&sdt=b&s=TITLE-ABS-KEY%28Implementation+in+MATLAB+Simulink+of+a+basic+electric+vehicle%29&sessionSearchId=f7a1990b462cf6e5548dc3a7473efd15&relpos=10	20/nr. autori	Scopus	1	20
				Subtotal 2.3		**98,35**

2.4 Articole publicate în reviste naționale și volumele unor manifestări științifice naționale și internaționale, neindexate

Nr. crt.	Autori	Titlu articol / revistă (conferință)	Indicator (kpi)	Nr. autori	Punctaj
0	1	2	3	4	5
1	Dan Moldovanu, Florin MARIASIU, Bogdan VARGA	THE INFLUENCES OF AIR TEMPERATURE ON THE INTAKE PROCESS BY NUMERICAL SIMULATION Link: https://annals.fih.upt.ro/pdf-full/2013/ANNALS-2-2-17.pdf	5/nr. autori	3	1,67
				Subtotal 2.4	**1,67**

2.5 Granturi/proiecte câștigate prin competiție/de cercetare/consultanță pentru mediul economic

2.5.1 Director/responsabil: **Profesor – Minim 2 granturi sau valoare contracte cu mediu economic minimum 200.000 lei**

2.5.1.3 Contracte de cercetare cu mediul economic (Dovada)

Nr. crt.	Titlu proiect	Indicator (kpi)	Perioada	Nr. ani	Punctaj
1	Contract cu **TVA 12564/20.05.2019** – cu titlul "Testare combustibil 100", încheiat cu "Petrotel Lukoil" SA, perioada 01.08.2018-31.10.2019, valoare	10*nr. ani desfășurare	20.05.2019 –	5 luni	10*0,416

	76.914,92 lei, ca director; Link: https://drive.google.com/file/d/1TH--c_1_74D7Ak2bPWzdaFRb9ySWE_ec/view?usp=sharing	(1 an = 12 luni)	31.10.2019		=4,16
2	Contract cu **TVA 6412/2022** cu titlul "Întocmire caiet sarcini, criterii de selecție si factori de evaluare", încheiat cu Primăria Cluj-Napoca, perioada 01.07.2022- 01.08.2023, valoare încasată UTCN (20.11.2023) **160.055 lei**, ca director; Link: https://drive.google.com/file/d/1a0KtTXyzBx8Y_HHivWfjd_QMclhaQBBq/view?usp=sharing	10*nr. ani desfășurare (1 an = 12 luni)	10.03.2022 - prezent	3 ani, 2 luni (38 luni)	10*38/12 = 31,67
				Subtotal 2.5.1.2	**35,83**
				Subtotal 2.5.1	**35,83**

2.5.2 Membru în echipă – confirmare prin documente oficiale (Dovada)

2.5.2.1 Internaționale

Nr. crt.	Titlu proiect	Indicator (kpi)	Perioada	Nr. ani	Punctaj
1	Contract cu terții nr. 14120/2018, cu titlul "JASPERS" încheiat cu Banca Europeană de Investiții, director proiect, prof.dr.ing. Varga Bogdan, perioada 01.10.2018- 28.02.2019, valoare 18.560 lei, **ca membru;**	4*nr. ani desfășurare (1 an = 12 luni)	01.10.2018 – 28.02.2019	5/12= 0,416	4*0,416 = 1.66
2	Contract de tip H2020 nr. 101036871/01.11.2021, cu titlul "hOlistic Green Airports", director proiect, prof.dr.ing. Micu Dan Doru, perioada 01.11.2021- 30.09.2026, valoare 3.753.280 euro, **ca membru**;	4*nr. ani desfășurare (1 an = 12 luni)	01.11.2021-30.09.2026	58 luni	4*58/12 = 19.33
3	Contract de tip H2020 nr. NZC/2023, cu titlul "Blueprint for Net-Zero Apartment-block Neighborhoods", director prof.dr.ing. Varga Bogdan, perioada 01.09.2023- 31.05.2025, valoare, 1.929.407 lei, **ca membru**	4*nr. ani desfășurare (1 an = 12 luni)	01.09.2023-31.05.2025	20 luni	4*20/12 = 6.66
				Subtotal 2.5.2.1	**27.65**

2.5.2.2 Naționale

Nr. crt.	Titlu proiect	Indicator (kpi)	Perioada	Nr. ani	Punctaj
1	Contract cu terții nr. 2523/2023, cu titlul "Intocmire caiet sarcini, criterii de selectie si factori de evaluare. Raspuns SICAP. Evaluari. Receptie - Autobuze electrice", perioada 27.01.2023- 27.01.2025. valoare 230.435 lei, ca membru	2*nr. ani desfășurare (1 an = 12 luni)	27.01.2023-27.01.2025	24 luni	2*24/12 = 4
2	Contract cu terții nr. 26665/2019, cu titlul "Contract prestări servicii de cercetare combustibil tip benzină COR 95" încheiat cu PETROTEL, director prof.dr.ing. Varga Bogdan, perioada 01.10.2019- 01.10.2020, valoare 12.992 lei, ca membru;	2*nr. ani desfășurare (1 an = 12 luni)	01.10.2019-01.10.2020	12 luni	2*12/12 = 2
3	Contract cu terții nr. 23380/2019, cu titlul "Testare combustibil diesel Lion2", director proiect prof.dr.ing. Varga Bogdan, perioada 09.09.2019-31.10.2019, valoare 72885,92 lei, ca membru;	2*nr. ani desfășurare (1 an = 12 luni)	09.09.2019-31.10.2019	1 luna	2*1/12= 0.16
4	Contract cu terții, nr. 36/2018, cu titlul "Testare motoare cu ardere internă pentru evidentierea depunerilor pe piesele motorului (Testare MAI/Lion)", încheiat cu "The Temple Agency"SRL, 09.09.2018-31.10.2018, director proiect, prof.dr.ing. Varga Bogdan, valoare 47.792 lei, ca membru;	2*nr. ani desfășurare (1 an = 12 luni)	09.09.2018-31.10.2018	1 luna	2*1/12= 0.16
5	Proiect de tip Cecuri Inovare nr. 205CI/2018, cu titlul "Îmbunătățirea eficientei de consum a tractoarelor în agregat cu echipamentele fitosanitare, utilizate în plantațiile viticole din podgoria Târnave" director proiect ș.l.dr.ing. Borzan Adela, perioada 25.07.2018- 31.12.2018, valoare 1.944	2*nr. ani desfășurare (1 an = 12 luni)	25.07.2018-31.12.2018	5 luni	2*5/12= 0.83

	lei, ca membru;				
				Subtotal 2.5.2.2	**7.15**
				Subtotal 2.5.2	**34.80**
				SUBTOTAL 2.5	**70.63**

TOTAL A2: 537,59 puncte

3. Recunoașterea performanțelor profesionale și impactul activității (A3)

3.1 Citări în reviste ISI și BDI (fără autocitări). Profesor: minimum 40 puncte

3.1.1 ISI cu factor de impact

Nr. crt.	Autori	Titlu articol citat / articol care citează	Indicator (kpi)	Nr. autori	Punctaj
0	1	2	3	4	5
Articol citat					
	Oargă, Ioan-Tudor, Gabriel Prunean, Bogdan Ovidiu Varga, Dan Moldovanu, and Dan Doru Micu	"Comparative Analysis of Energy Efficiency between Battery Electric Buses and Modular Autonomous Vehicles." Applied Sciences 14, no. 11 (2024): 4389. Web of Science: https://www.webofscience.com/wos/woscc/full-record/WOS:001245235900001			
Articol care citează					
1	Wang, YY; Zhang, S; Liu, L; Gong, P; Lu, WK; Wu, FW; Gu, JG; Li, YX; Cao, ZC,A	Review of Battery Electric Public Transport Timetabling and Scheduling: A 10 Year Retrospective and New Developments,ELECTRONICS,2079-9292,2025,14,9,1694,10.3390/electronics14091694, https://www.webofscience.com/wos/woscc/full-record/WOS:001486227300001	20/nr. autori	6	3,34
2	Malek, A; Marciniak, A; Kroczynski, D,	Defining Signatures for Intelligent Vehicles with Different Types of Powertrains,WORLD ELECTRIC VEHICLE JOURNAL,2032-6653,2025,16,3,135,10.3390/wevj16030135, https://www.webofscience.com/wos/woscc/full-record/WOS:001453313800001	20/nr. autori	6	3,34
3	Alamatsaz, K; Quesnel, F; Eicker, U,	Enhancing Electric Shuttle Bus Efficiency: A Case Study on Timetabling and Scheduling Optimization,ENERGIES,1996-1073,2024,17,13,3149,10.3390/en17133149, https://www.webofscience.com/wos/woscc/full-record/WOS:001269703400001	20/nr. autori	6	3,34
Articol citat					
	Cărăușan, Horațiu, Bogdan Ovidiu Varga, Dan Moldovanu, Gabriel Prunean, and Ioan-Tudor Oargă	"Energy efficiency analysis of a Fuel Cell Bus model using real scenarios generated by data collection." Sustainability 16, no. 5 (2024): 1863. https://www.webofscience.com/wos/woscc/full-record/WOS:001183090700001			
Articol care citează					
4	Hassouna, Fady MA, and Ian Pringle.	"Expected environmental implications of hydrogen fuel cell buses in Australia." International Journal of Sustainable Engineering 17, no. 1 (2024): 1041-1047. https://www.webofscience.com/wos/woscc/full-record/WOS:001362773400001	20/nr. autori	5	4

5	Bungău, Constantin, Alina Badulescu, Dorina Camelia Ilieș, Cosmin Mihai Vesa, and Delia Mirela Tit.	"Advances in Sustainability Research from the University of Oradea." Sustainability 16, no. 7 (2024): 2712. https://www.webofscience.com/wos/woscc/full-record/WOS:001201669400001	20/nr. autori	5	4
Articol citat					
	Oargă, Ioan-Tudor, Bogdan Ovidiu Varga, Dan Moldovanu, Horațiu Cărăușan, and Gabriel Prunean.	"Modular Autonomous Vehicles' Application in Public Transport Networks: Conceptual Analysis on Airport Connection." Sustainability 16, no. 4 (2024): 1512. https://www.webofscience.com/wos/woscc/full-record/WOS:001172213900001			
Articol care citează					
6	Ajayi, Olusola O., Anish M. Kurien, Karim Djouani, and Lamine Dieng.	"4IR Applications in the Transport Industry: Systematic Review of the State of the Art with Respect to Data Collection and Processing Mechanisms." Sustainability 16, no. 17 (2024): 7514. https://www.webofscience.com/wos/woscc/full-record/WOS:001311651900001	20/nr. autori	5	20/5 =4,00
7	Ferreira, Diogo, Maria Emilia Baltazar, and Luis Santos.	"Developing a Comprehensive Framework for Assessing Airports' Environmental Sustainability." Sustainability (2071-1050) 16, no. 15 (2024). https://www.webofscience.com/wos/woscc/full-record/WOS:001286927600001	20/nr. autori	5	20/5 =4,00
8	Bungău, Constantin, Alina Badulescu, Dorina Camelia Ilieș, Cosmin Mihai Vesa, and Delia Mirela Tit.	"Advances in Sustainability Research from the University of Oradea." Sustainability 16, no. 7 (2024): 2712. https://www.webofscience.com/wos/woscc/full-record/WOS:001201669400001	20/nr. autori	5	20/5 =4,00
Articol citat					
	Burnete, Nicolae Vlad, Florin Mariasiu, Christopher Depcik, Istvan Barabas, and Dan Moldovanu.	"Review of thermoelectric generation for internal combustion engine waste heat recovery." Progress in Energy and Combustion Science 91 (2022): 101009. https://www.webofscience.com/wos/woscc/full-record/WOS:000798843400002			
Articol care citează					
9	Maketo, L; Ashworth, P,	Overcoming hurdles and harnessing the potential of the hydrogen transition in Germany, APPLIED ENERGY, 0306-2619, 1872-9118, 2025, 10.1016/j.apenergy.2025.126249, http://dx.doi.org/10.1016/j.apenergy.2025.126249, https://www.webofscience.com/wos/woscc/full-record/WOS:001508285500004	20/nr. autori	5	20/5 =4,00
10	Ding, YX; Tian, H; Li, LG; Zhang, HF; Yuan, P; Chen, JB; Cai, JW; Shu, GQ,	Performance of serrated finned plate exhaust heat exchangers coupled with soot deposition characteristics, INTERNATIONAL JOURNAL OF THERMAL SCIENCES, 1290-0729, 1778-4166, 2025, 10.1016/j.ijthermalsci.2025.109952, http://dx.doi.org/10.1016/j.ijthermalsci.2025.109952, https://www.webofscience.com/wos/woscc/full-record/WOS:001484538100001	20/nr. autori	5	20/5 =4,00

11	Dong, CB; Gunina, MG,	ANN-driven optimization and dynamic performance assessment of a hybrid energy system with enhanced SOFC and compressed air energy storage, ENERGY, 0360-5442, 1873-6785, 2025, 10.1016/j.energy.2025.136448, http://dx.doi.org/10.1016/j.energy.2025.136448, https://www.webofscience.com/wos/woscc/full-record/WOS:001497004000001	20/nr. autori	5	20/5 =4,00
12	Arif, D; Khan, R; Abid, AY; Safeen, K; Ali, A; Amin, MA; Akram, K; Khan, KH; Ali, Z; Safeen, A,	Influence of defects on the enhancement of thermoelectric properties in Sn-doped ZnO nanostructure synthesized via hydrothermal route, FRONTIERS IN CHEMISTRY, 2296-2646, 2025, 10.3389/fchem.2025.1598509, http://dx.doi.org/10.3389/fchem.2025.1598509, https://www.webofscience.com/wos/woscc/full-record/WOS:001509741200001	20/nr. autori	5	20/5 =4,00
13	Gu, CY; Dong, C; Li, QP; Gu, HD; Zhu, CY,	Heat collection enhancement of a thermoelectric generator based on micro heat pipe arrays, ENERGY CONVERSION AND MANAGEMENT, 0196-8904, 1879-2227, 2025, 10.1016/j.enconman.2025.119813, http://dx.doi.org/10.1016/j.enconman.2025.119813, https://www.webofscience.com/wos/woscc/full-record/WOS:001473473300001	20/nr. autori	5	20/5 =4,00
14	Agbulut, Ü; Vozka, P; Bakir, H; Brieu, NA; Polat, F; Saridemir, S,	On-board hydrogen-rich syngas production via waste heat recovery from compression-ignition engines: maximizing hydrogen content with novel multi-objective algorithms, INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, 0360-3199, 1879-3487, 2025, 10.1016/j.ijhydene.2025.04.261, http://dx.doi.org/10.1016/j.ijhydene.2025.04.261, https://www.webofscience.com/wos/woscc/full-record/WOS:001483127100001	20/nr. autori	5	20/5 =4,00
15	Hong, TD; Tran, KT; Nguyen, HP; Pham, MQ; Vuong, NHT,	A Comparative Study on the Performance and Thermal Uniformity of Different Motorcycle Exhaust Thermoelectric Generator Configurations, HEAT TRANSFER, 2688-4534, 2688-4542, 2025, 10.1002/htj.23381, http://dx.doi.org/10.1002/htj.23381, https://www.webofscience.com/wos/woscc/full-record/WOS:001489200200001	20/nr. autori	5	20/5 =4,00
16	Xiao, H; Hu, J,	Derivation and verification of the revised thermoelectric energy equations considering convective heat dissipation for engineering calculations and analysis, THERMAL SCIENCE AND ENGINEERING PROGRESS, 2451-9049, 2025, 10.1016/j.tsep.2025.103654, http://dx.doi.org/10.1016/j.tsep.2025.103654, https://www.webofscience.com/wos/woscc/full-record/WOS:001491038600001	20/nr. autori	5	20/5 =4,00
17	Kumari, A; Choudhary, T; Biswas, RK; Nag, A; Maiti, SK; Kumar, J,	Enhanced thermoelectric properties of two-dimensional Janus ferromagnetic LaBrI with strain-induced valley degeneracy, PHYSICAL REVIEW B, 2469-9950, 2469-9969, 2025, 10.1103/PhysRevB.111.155433, http://dx.doi.org/10.1103/PhysRevB.111.155433, https://www.webofscience.com/wos/woscc/full-record/WOS:001479144900001	20/nr. autori	5	20/5 =4,00

18	Rausa, G; Calabrese, M; Velazquez, R; Del-Valle-Soto, C; Fazio, RD; Visconti, P,	Mechanical, Thermal, and Environmental Energy Harvesting Solutions in Fully Electric and Hybrid Vehicles: Innovative Approaches and Commercial Systems, ENERGIES, 1996-1073, 2025, 10.3390/en18081970, http://dx.doi.org/10.3390/en18081970, https://www.webofscience.com/wos/woscc/full-record/WOS:001474919800001	20/nr. autori	5	20/5 =4,00
19	Wang, XB; Zeng, JL; Liu, X; Su, CQ; Xiong, X; Wang, YP,	Numerical simulation of a multi-tube automotive thermoelectric generator for heat transfer and power generation performance, CASE STUDIES IN THERMAL ENGINEERING, 2214-157X, 2025, 10.1016/j.csite.2025.106091, http://dx.doi.org/10.1016/j.csite.2025.106091, https://www.webofscience.com/wos/woscc/full-record/WOS:001481403700001	20/nr. autori	5	20/5 =4,00
20	Quan, R; Li, XR; Zhou, YL; Wan, H; Chang, YF,	Transient model and performance evaluation of a polygonal automobile exhaust thermoelectric generator under different driving cycles, APPLIED THERMAL ENGINEERING, 1359-4311, 1873-5606, 2025, 10.1016/j.applthermaleng.2025.126348, http://dx.doi.org/10.1016/j.applthermaleng.2025.126348, https://www.webofscience.com/wos/woscc/full-record/WOS:001461478500001	20/nr. autori	5	20/5 =4,00
21	Frutuoso, FD; de Oliveira, MLM; Bueno, AV; Silva, LC,	Overview about energy recovery applied to combustion engine focused on biofuels, ENERGY EFFICIENCY, 1570-646X, 1570-6478, 2025, 10.1007/s12053-025-10318-0, http://dx.doi.org/10.1007/s12053-025-10318-0, https://www.webofscience.com/wos/woscc/full-record/WOS:001451726700001	20/nr. autori	5	20/5 =4,00
22	Zhang, XG; Wang, T; Zhang, XH; Ge, SC,	Analysis of multiple factors influencing the efficiency of gravity thermal pipe waste heat recovery: A case study of heat accumulation management in spoil tips, ENERGY, 0360-5442, 1873-6785, 2025, 10.1016/j.energy.2025.135526, http://dx.doi.org/10.1016/j.energy.2025.135526, https://www.webofscience.com/wos/woscc/full-record/WOS:001446708000001	20/nr. autori	5	20/5 =4,00
23	Bargal, MHS; Allam, AN; Zaki, AM; Zayed, ME; Alhems, LM; Ali, HM,	Thermohydraulic performance augmentation and heat transfer enhancement of automotive radiators using nano-coolants: a critical review, JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, 1388-6150, 1588-2926, 2025, 10.1007/s10973-025-14101-2, http://dx.doi.org/10.1007/s10973-025-14101-2, https://www.webofscience.com/wos/woscc/full-record/WOS:001438263400001	20/nr. autori	5	20/5 =4,00
24	Li, YX; Hu, J; Wang, YP; Liu, X,	Numerical investigations on a thermoelectric generator based on diesel engine integrated DOC plus DPF plus SCR aftertreatment, ENERGY, 0360-5442, 1873-6785, 2025, 10.1016/j.energy.2025.134858, http://dx.doi.org/10.1016/j.energy.2025.134858, https://www.webofscience.com/wos/woscc/full-record/WOS:001429325800001	20/nr. autori	5	20/5 =4,00

25	Yi, GQ; Henderson, LC; Li, JL; Lei, WW; Zhao, SF,	Thermally conductive composites as polymer heat exchangers for water and energy recovery: From materials to products, APPLIED THERMAL ENGINEERING, 1359-4311, 1873-5606, 2025, 10.1016/j.applthermaleng.2025.125845, http://dx.doi.org/10.1016/j.applthermaleng.2025.125845, https://www.webofscience.com/wos/woscc/full-record/WOS:001425798000001	20/nr. autori	5	20/5 =4,00
26	Xiao, H,	Thermoelectric Energy Equations Considering Convective Heat Transfer Between Thermoelectric Materials and the Environment, MATERIALS, 1996-1944, 2025, 10.3390/ma18040859, http://dx.doi.org/10.3390/ma18040859, https://www.webofscience.com/wos/woscc/full-record/WOS:001430250900001	20/nr. autori	5	20/5 =4,00
27	Xu, H; Wang, LJ; Li, CS; Li, WH; Zhao, ML; Shi, JK; Qu, B; Mei, Y; Xiang, L; Deng, YH; Xu, HH,	SiC MOSFETs: The Inevitable Trend for 800V Electric Vehicle Air Conditioning Compressors, IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, 0018-9545, 1939-9359, 2025, 10.1109/TVT.2024.3467157, http://dx.doi.org/10.1109/TVT.2024.3467157, https://www.webofscience.com/wos/woscc/full-record/WOS:001422041300040	20/nr. autori	5	20/5 =4,00
28	Tan, ZQ; Tao, K; Sun, H,	Closed-Form Approximate Solution for Thermo-Mechanical Performance Analysis of Thermoelectric Generators with Temperature-Dependent Material Properties by Differential Transform Method, INTERNATIONAL JOURNAL OF THERMOPHYSICS, 0195-928X, 1572-9567, 2025, 10.1007/s10765-024-03489-y, http://dx.doi.org/10.1007/s10765-024-03489-y, https://www.webofscience.com/wos/woscc/full-record/WOS:001392305000001	20/nr. autori	5	20/5 =4,00
29	Sohail, S; Irfan, M; Ain, Q; Ibrahim, FA; Hamdy, MS; Issa, SAM; Zakaly, HMH,	First principles computation of exchange mechanism, radiation shielding, and physical properties of FeCu2SnX4(X=S, Se, Te): Transitions metal based chalcogenides for spintronic and energy storage system applications, MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, 1369-8001, 1873-4081, 2025, 10.1016/j.mssp.2025.109303, http://dx.doi.org/10.1016/j.mssp.2025.109303, https://www.webofscience.com/wos/woscc/full-record/WOS:001410111100001	20/nr. autori	5	20/5 =4,00
30	Halba, A; Arora, P; Saroj, RK; Navle, P; Halan, S,	Transforming paper dust into electricity and biochar via gasification: Experimental, emission, and economic insights, ENERGY CONVERSION AND MANAGEMENT, 0196-8904, 1879-2227, 2025, 10.1016/j.enconman.2025.119503, http://dx.doi.org/10.1016/j.enconman.2025.119503, https://www.webofscience.com/wos/woscc/full-record/WOS:001416235000001	20/nr. autori	5	20/5 =4,00
31	Jamil, U; Holden, NM,	Assessment of Scarcity, Toxicity, and Circularity Risks in the European Thermoelectric Market: A Focus on Tellurium, Antimony, Bismuth, and Lead, CLEAN TECHNOLOGIES, 2571-8797, 2025, 10.3390/cleantechnol7010005, http://dx.doi.org/10.3390/cleantechnol7010005, https://www.webofscience.com/wos/woscc/full-record/WOS:001452039600001	20/nr. autori	5	20/5 =4,00

32	Douadi, O; Ravi, R; Bakhchin, D; Faqir, M; Essadiqi, E,	Comparative analysis of inlet and outlet cavity designs on the thermal-hydraulic performance of compact heat exchangers for combustion engine exhaust heat recovery, ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 1556-7036, 1556-7230, 2024, 10.1080/15567036.2024.2417772, http://dx.doi.org/10.1080/15567036.2024.2417772, https://www.webofscience.com/wos/woscc/full-record/WOS:001335227900001	20/nr. autori	5	20/5 =4,00
33	Waktole, DA; Jia, BR; Zuo, ZX; Wang, W; Kuang, NL,	Optimization of the geometric parameters and structural design of a flexible thermoelectric generator for efficient energy harvesting to power wearable electronics, ENERGY, 0360-5442, 1873-6785, 2024, 10.1016/j.energy.2024.134096, http://dx.doi.org/10.1016/j.energy.2024.134096, https://www.webofscience.com/wos/woscc/full-record/WOS:001379428600001	20/nr. autori	5	20/5 =4,00
34	Lee, JH; Kim, TY,	Development of a multi-physics numerical model for a multi-component thermoelectric generator with discontinuous porosity in the exhaust gas channel, APPLIED THERMAL ENGINEERING, 1359-4311, 1873-5606, 2025, 10.1016/j.applthermaleng.2024.125043, http://dx.doi.org/10.1016/j.applthermaleng.2024.125043, https://www.webofscience.com/wos/woscc/full-record/WOS:001372028400001	20/nr. autori	5	20/5 =4,00
35	Luo, D; Liu, ZR; Cao, J; Yan, YY,	Feasibility and parametric study of a groove-type thermoelectric generator under multiphysics field conditions, APPLIED THERMAL ENGINEERING, 1359-4311, 1873-5606, 2025, 10.1016/j.applthermaleng.2024.124972, http://dx.doi.org/10.1016/j.applthermaleng.2024.124972, https://www.webofscience.com/wos/woscc/full-record/WOS:001361958100001	20/nr. autori	5	20/5 =4,00
36	Fatigati, F; Di Battista, D; Carapellucci, R,	Model-based assessment of a feedforward-feedback control strategy for ORC-based unit in waste heat recovery application, APPLIED THERMAL ENGINEERING, 1359-4311, 1873-5606, 2025, 10.1016/j.applthermaleng.2024.124774, http://dx.doi.org/10.1016/j.applthermaleng.2024.124774, https://www.webofscience.com/wos/woscc/full-record/WOS:001353541300001	20/nr. autori	5	20/5 =4,00
37	Khamees, A; Altinkaya, H,	Real-Time Control of Thermal Synchronous Generators for Cyber-Physical Security: Addressing Oscillations with ANFIS, PROCESSES, 2227-9717, 2024, 10.3390/pr12112345, http://dx.doi.org/10.3390/pr12112345, https://www.webofscience.com/wos/woscc/full-record/WOS:001365862400001	20/nr. autori	5	20/5 =4,00

38	Kwon, H; Park, S; Song, W; Kim, W,	Optimization of thermoelectric systems for maximum power generation based on heat-source and heat-sink conditions, JOURNAL OF APPLIED PHYSICS, 0021-8979, 1089-7550, 2024, 10.1063/5.0223204, http://dx.doi.org/10.1063/5.0223204, https://www.webofscience.com/wos/woscc/full-record/WOS:001338979300008	20/nr. autori	5	20/5 =4,00
39	Daraghma, HS; Ferry, DB; Rao, SG; Hawwa, MA; Gondal, MA; Rojas, JP,	Materials & design approaches for enhanced performance of mechanically compliant thermoelectric generators (TEGs): a review, SMART MATERIALS AND STRUCTURES, 0964-1726, 1361-665X, 2024, 10.1088/1361-665X/ad791b, http://dx.doi.org/10.1088/1361-665X/ad791b, https://www.webofscience.com/wos/woscc/full-record/WOS:001318993200001	20/nr. autori	5	20/5 =4,00
40	Dai, HM; Jiang, Z; Lv, SL; Zou, CX,	Optimization of methane partial oxidation for hydrogen production with local free space addition: An efficient combination of porous media reactor and thermoelectric conversion system, CHEMICAL ENGINEERING JOURNAL, 1385-8947, 1873-3212, 2024, 10.1016/j.cej.2024.155434, http://dx.doi.org/10.1016/j.cej.2024.155434, https://www.webofscience.com/wos/woscc/full-record/WOS:001316003500001	20/nr. autori	5	20/5 =4,00
41	Li, GE; Fan, YQ; Li, QS; Zheng, YQ; Zhao, D; Wang, SF; Dong, SJ; Guo, WW; Tang, YJ,	A review on micro combustion powered thermoelectric generator: History, state-of-the-art and challenges to commercialization, RENEWABLE & SUSTAINABLE ENERGY REVIEWS, 1364-0321, 1879-0690, 2025, 10.1016/j.rser.2024.114897, http://dx.doi.org/10.1016/j.rser.2024.114897, https://www.webofscience.com/wos/woscc/full-record/WOS:001312804700001	20/nr. autori	5	20/5 =4,00
42	Zhou, X; Ding, CL; Abed, AM; Abdullaev, S; Ahmad, SF; Fouad, Y; Dahari, M; Mahariq, I,	Techno-economic assessment and transient modeling of a solar-based multi-generation system for sustainable/clean coastal urban development, RENEWABLE ENERGY, 0960-1481, 1879-0682, 2024, 10.1016/j.renene.2024.121119, http://dx.doi.org/10.1016/j.renene.2024.121119, https://www.webofscience.com/wos/woscc/full-record/WOS:001296841600001	20/nr. autori	5	20/5 =4,00
43	Li, GE; Yang, YB; Xiao, Y; Liu, SJ; Wen, HJ; Jiang, PT; Guo, WW; Tang, YJ,	Flue gas waste heat thermoelectric generator: Laboratory experiment and demonstration application, CASE STUDIES IN THERMAL ENGINEERING, 2214-157X, 2024, 10.1016/j.csite.2024.104953, http://dx.doi.org/10.1016/j.csite.2024.104953, https://www.webofscience.com/wos/woscc/full-record/WOS:001294974900001	20/nr. autori	5	20/5 =4,00
44	Quan, R; Li, XR; Yang, ZY; Feng, ZX; Chang, YF; Wan, H,	Dynamic performance of a polygonal thermoelectric generator using sickle-shaped fins for automotive application, APPLIED THERMAL ENGINEERING, 1359-4311, 1873-5606, 2024, 10.1016/j.applthermaleng.2024.123985, http://dx.doi.org/10.1016/j.applthermaleng.2024.123985, https://www.webofscience.com/wos/woscc/full-record/WOS:001279722500001	20/nr. autori	5	20/5 =4,00

45	Zhang, XG; Zhang, XH; Ge, SC; Zhang, BL,	Multi-criteria decision analysis and experimental study on heat pipe thermoelectric generator for waste heat recovery, APPLIED THERMAL ENGINEERING, 1359-4311, 1873-5606, 2024, 10.1016/j.applthermaleng.2024.123930, http://dx.doi.org/10.1016/j.applthermaleng.2024.123930, https://www.webofscience.com/wos/woscc/full-record/WOS:001279604400001	20/nr. autori	5	20/5 =4,00
46	Sharshir, SW; Joseph, A; Elsayad, MM; Kandeal, AW; Abdullah, AS; Wang, C; Jang, SH; An, M; Ghazaly, NM; Yuan, ZH,	Energy harvesting via thermoelectric generators for green hydrogen production: Methods and techniques, PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, 0957-5820, 1744-3598, 2024, 10.1016/j.psep.2024.07.057, http://dx.doi.org/10.1016/j.psep.2024.07.057, https://www.webofscience.com/wos/woscc/full-record/WOS:001279315700001	20/nr. autori	5	20/5 =4,00
47	Hong, TD; Nguyen, DHT; Pham, MQ; Huynh, EBV; Tran, TA,	Optimization of the cold-side heat exchanger design to improve the performance of the motorcycle exhaust thermoelectric generator, HEAT TRANSFER, 2688-4534, 2688-4542, 2024, 10.1002/htj.23132, http://dx.doi.org/10.1002/htj.23132, https://www.webofscience.com/wos/woscc/full-record/WOS:001273174200001	20/nr. autori	5	20/5 =4,00
48	Maduabuchi, C; Okoli, K,	Transient real-weather 4E optimization of two-stage segmented thermoelectric generators for enhanced solar energy conversion, APPLIED ENERGY, 0306-2619, 1872-9118, 2024, 10.1016/j.apenergy.2024.123881, http://dx.doi.org/10.1016/j.apenergy.2024.123881, https://www.webofscience.com/wos/woscc/full-record/WOS:001273960300001	20/nr. autori	5	20/5 =4,00
49	Zhu, YH; Li, KW; Mgijimi, MB; Linghu, J; Kuai, PY; Yang, GD; Yang, LY,	Power Generation at Low Temperatures Using Thermoelectric Generators and Cost Analysis, INTERNATIONAL JOURNAL OF ENERGY RESEARCH, 0363-907X, 1099-114X, 2024, 10.1155/2024/8728700, http://dx.doi.org/10.1155/2024/8728700, https://www.webofscience.com/wos/woscc/full-record/WOS:001273418400004	20/nr. autori	5	20/5 =4,00
50	Yang, XL; Yan, ZC; Bu, SJ; Li, WK; Yu, N; Su, C; Lu, SD; Wang, X,	Energy, exergy, exergoeconomic, economic, and environmental analyses and multi-objective optimization of a novel combined cooling and power system with dual-pressure Kalina cycle-absorption refrigeration, ENERGY CONVERSION AND MANAGEMENT, 0196-8904, 1879-2227, 2024, 10.1016/j.enconman.2024.118781, http://dx.doi.org/10.1016/j.enconman.2024.118781, https://www.webofscience.com/wos/woscc/full-record/WOS:001351665600001	20/nr. autori	5	20/5 =4,00
51	Feng, X; Shi, FX; Qiao, GC; Li, YR; Liu, CX,	Integrating organic Rankine cycle with thermoelectric generator in various applications utilizing low-grade energy: A review, SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, 2213-1388, 2213-1396, 2024, 10.1016/j.seta.2024.103882, http://dx.doi.org/10.1016/j.seta.2024.103882, https://www.webofscience.com/wos/woscc/full-record/WOS:001297372300001	20/nr. autori	5	20/5 =4,00

52	Masoumi, S; Noori, A; Pakdel, A,	Exploring electrical transport in thin film and bulk thermoelectric materials with an automated Seebeck coefficient and resistivity measurement platform, MEASUREMENT, 0263-2241, 1873-412X, 2024, 10.1016/j.measurement.2024.115162, http://dx.doi.org/10.1016/j.measurement.2024.115162, https://www.webofscience.com/wos/woscc/full-record/WOS:001260607500001	20/nr. autori	5	20/5 =4,00
53	Oh, J; Han, U; Jung, Y; Kang, YT; Lee, H,	Advancing waste heat potential assessment for net-zero emissions: A review of demand-based thermal energy systems, RENEWABLE & SUSTAINABLE ENERGY REVIEWS, 1364-0321, 1879-0690, 2024, 10.1016/j.rser.2024.114693, http://dx.doi.org/10.1016/j.rser.2024.114693, https://www.webofscience.com/wos/woscc/full-record/WOS:001259732500001	20/nr. autori	5	20/5 =4,00
54	Moradi, S; Shafii, MB,	Low-grade heat to electricity conversion using the self-circulation of a magnet inside a single-turn pulsating heat pipe, ENERGY CONVERSION AND MANAGEMENT, 0196-8904, 1879-2227, 2024, 10.1016/j.enconman.2024.118607, http://dx.doi.org/10.1016/j.enconman.2024.118607, https://www.webofscience.com/wos/woscc/full-record/WOS:001259729000001	20/nr. autori	5	20/5 =4,00
55	Carapellucci, R; Di Battista, D,	Combined Supercritical CO2 Brayton Cycle and Organic Rankine Cycle for Exhaust Heat Recovery, JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME, 0195-0738, 1528-8994, 2024, 10.1115/1.4065080, http://dx.doi.org/10.1115/1.4065080, https://www.webofscience.com/wos/woscc/full-record/WOS:001209345900005	20/nr. autori	5	20/5 =4,00
56	Orjuela-Abril, S; Torregroza-Espinosa, A; Duarte-Forero, J,	Design of an innovative system for hydrogen production by electrolysis using waste heat recovery technology in natural gas engines, HELIYON, 2405-8440, 2024, 10.1016/j.heliyon.2024.e31364, http://dx.doi.org/10.1016/j.heliyon.2024.e31364, https://www.webofscience.com/wos/woscc/full-record/WOS:001298376600001	20/nr. autori	5	20/5 =4,00
57	Manesh, MHK; Davadgaran, S; Rabeti, SAM; Blanco-Marigorta, AM,	Optimal 4E evaluation of an innovative solar-wind cogeneration system for sustainable power and fresh water production based on integration of microbial desalination cell, humidification- dehumidification, and reverse osmosis desalination, ENERGY, 0360-5442, 1873-6785, 2024, 10.1016/j.energy.2024.131256, http://dx.doi.org/10.1016/j.energy.2024.131256, https://www.webofscience.com/wos/woscc/full-record/WOS:001293785000001	20/nr. autori	5	20/5 =4,00
58	Chen, J; Wang, RC; Ding, RK; Luo, D,	Numerical study of a novel automotive thermoelectric generator system equipped with segmented converging heat exchanger, CASE STUDIES IN THERMAL ENGINEERING, 2214-157X, 2024, 10.1016/j.csite.2024.104367, http://dx.doi.org/10.1016/j.csite.2024.104367, https://www.webofscience.com/wos/woscc/full-	20/nr. autori	5	20/5 =4,00

		record/WOS:001224916100001			
59	Yang, WL; Jin, CC; Zhu, WC; Xie, CJ; Huang, L; Li, Y; Xiong, BY,	Innovative design for thermoelectric power generation: Two-stage thermoelectric generator with variable twist ratio twisted tapes optimizing maximum output, APPLIED ENERGY, 0306-2619, 1872-9118, 2024, 10.1016/j.apenergy.2024.123047, http://dx.doi.org/10.1016/j.apenergy.2024.123047, https://www.webofscience.com/wos/woscc/full-record/WOS:001223330700001	20/nr. autori	5	20/5 =4,00
60	Sedlbauer, J; Slavík, M; Hejsková, P; Cincera, J,	Externalities still underrated in energy education, RENEWABLE ENERGY, 0960-1481, 1879-0682, 2024, 10.1016/j.renene.2024.120148, http://dx.doi.org/10.1016/j.renene.2024.120148, https://www.webofscience.com/wos/woscc/full-record/WOS:001202331800001	20/nr. autori	5	20/5 =4,00
61	He, ZQ; You, JX; Kang, DG; Zou, QF; Zhang, WX; Zhang, Z,	Overall numerical simulation of chemical-thermal-electric conversion for an all-in-one thermoelectric generator based on micro scale combustion, ENERGY, 0360-5442, 1873-6785, 2024, 10.1016/j.energy.2024.130307, http://dx.doi.org/10.1016/j.energy.2024.130307, https://www.webofscience.com/wos/woscc/full-record/WOS:001171260400001	20/nr. autori	5	20/5 =4,00
62	Cho, KC; Shin, KY; Shim, J; Bae, SS; Kwon, OD,	Performance Analysis of a Waste Heat Recovery System for a Biogas Engine Using Waste Resources in an Industrial Complex, ENERGIES, 1996-1073, 2024, 10.3390/en17030727, http://dx.doi.org/10.3390/en17030727, https://www.webofscience.com/wos/woscc/full-record/WOS:001160228000001	20/nr. autori	5	20/5 =4,00
63	Xie, SQ; Zhu, HX; Zhang, X; Wang, HD,	A brief review on the recent development of phonon engineering and manipulation at nanoscales, INTERNATIONAL JOURNAL OF EXTREME MANUFACTURING, 2631-8644, 2631-7990, 2024, 10.1088/2631-7990/acfd68, http://dx.doi.org/10.1088/2631-7990/acfd68, https://www.webofscience.com/wos/woscc/full-record/WOS:001081216500001	20/nr. autori	5	20/5 =4,00
64	Leng, L; Cheng, JH; Shi, L; Deng, KY,	Thermodynamic analysis on the effect of altitude on the exhaust energy recovery of electric turbocompound engines, PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART D-JOURNAL OF AUTOMOBILE ENGINEERING, 0954-4070, 2041-2991, 2025, 10.1177/09544070231215846, http://dx.doi.org/10.1177/09544070231215846, https://www.webofscience.com/wos/woscc/full-record/WOS:001150259000001	20/nr. autori	5	20/5 =4,00

65	Allmaegi, R; Ilves, R,	COMPREHENSIVE REVIEW OF INNOVATION IN PISTON ENGINE AND LOW TEMPERATURE COMBUSTION TECHNOLOGIES, TRANSPORT, 1648-4142, 1648-3480, 2024, 10.3846/transport.2024.21333, http://dx.doi.org/10.3846/transport.2024.21333, https://www.webofscience.com/wos/woscc/full-record/WOS:001229710700001	20/nr. autori	5	20/5 =4,00
66	Suenaga, Y; Yanaoka, H,	Combustion performance of n-butane-fueled mesoscale annular combustor, JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, 1880-5566, 2024, 10.1299/jtst.23-00532, http://dx.doi.org/10.1299/jtst.23-00532, https://www.webofscience.com/wos/woscc/full-record/WOS:001186039800001	20/nr. autori	5	20/5 =4,00
67	Mandal, B; Patra, M; Kuiri, PK; Midya, A,	First-principles investigation of thermoelectric properties in sulfur-doped ZrO2, COMPUTATIONAL AND THEORETICAL CHEMISTRY, 2210-271X, 1872-7999, 2024, 10.1016/j.comptc.2023.114447, http://dx.doi.org/10.1016/j.comptc.2023.114447, https://www.webofscience.com/wos/woscc/full-record/WOS:001149047200001	20/nr. autori	5	20/5 =4,00
68	Mansir, IB; Ali, A; Musharavati, F; Farouk, N; Hadj-Taieb, L; Nguyen, DD,	Comparison of three arrangements of internal combustion engine-driven energy systems boosted with PEM fuel cell towards net-zero, INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, 0360-3199, 1879-3487, 2024, 10.1016/j.ijhydene.2023.05.149, http://dx.doi.org/10.1016/j.ijhydene.2023.05.149, https://www.webofscience.com/wos/woscc/full-record/WOS:001141559100001	20/nr. autori	5	20/5 =4,00
69	Chen, LG; Ge, YL; Feng, HJ; Ren, TT,	Energy and exergy analyses and optimizations for two-stage TEC driven by two-stage TEG with Thomson effect, SCIENCE CHINA-TECHNOLOGICAL SCIENCES, 1674-7321, 1869-1900, 2024, 10.1007/s11431-023-2498-9, http://dx.doi.org/10.1007/s11431-023-2498-9, https://www.webofscience.com/wos/woscc/full-record/WOS:001129596300004	20/nr. autori	5	20/5 =4,00
70	Çelik, A; Kunt, MA; Günes, H,	Prediction of electric power performance of the exhaust waste heat recovery system of an automobile with thermoelectrical generator under real driving conditions by means of machine learning algorithms, PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART E-JOURNAL OF PROCESS MECHANICAL ENGINEERING, 0954-4089, 2041-3009, 2024, 10.1177/09544089231218112, http://dx.doi.org/10.1177/09544089231218112, https://www.webofscience.com/wos/woscc/full-record/WOS:001125640300001	20/nr. autori	5	20/5 =4,00
71	Woo, S; Jeong, Y; Lee, K,	Feasibility Study of Exhaust Energy Recovery System for Mobile Carbon Capture Operations in Commercial Engines through 1D Simulation, ENERGIES, 1996-1073, 2023, 10.3390/en16248025, http://dx.doi.org/10.3390/en16248025, https://www.webofscience.com/wos/woscc/full-record/WOS:001131304200001	20/nr. autori	5	20/5 =4,00
72	Zhou, ZF; Zhang, WY; Zheng, YP; Yang, YY;	Advances in n-type Bi2O2Se thermoelectric materials: Progress and perspective, MATERIALS TODAY PHYSICS,	20/nr. autori	5	20/5 =4,00

	Wei, B; Liu, C; Lan, JL; Nan, CW; Lin, YH,	2542-5293, 2023, 10.1016/j.mtphys.2023.101292, http://dx.doi.org/10.1016/j.mtphys.2023.101292, https://www.webofscience.com/wos/woscc/full-record/WOS:001165126300001			
73	Hu, XB; Shen, ZG; Wang, Y,	On the design of a hydrogen micro-rectangular combustor for portable thermoelectric generators, CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION, 0255-2701, 1873-3204, 2024, 10.1016/j.cep.2023.109611, http://dx.doi.org/10.1016/j.cep.2023.109611, https://www.webofscience.com/wos/woscc/full-record/WOS:001124965400001	20/nr. autori	5	20/5 =4,00
74	Yang, WL; Jin, CC; Zhu, WC; Li, Y; Zhang, R; Huang, L; Xie, CJ; Shi, Y,	Taguchi optimization and thermoelectrical analysis of a pin fin annular thermoelectric generator for automotive waste heat recovery, RENEWABLE ENERGY, 0960-1481, 1879-0682, 2024, 10.1016/j.renene.2023.119628, http://dx.doi.org/10.1016/j.renene.2023.119628, https://www.webofscience.com/wos/woscc/full-record/WOS:001132907200001	20/nr. autori	5	20/5 =4,00
75	Alghamdi, H; Maduabuchi, C; Okoli, K; Albaker, A; Alatawi, I; Alghassab, M; Alabawi, H; Alkhedher, M,	Transient numerical simulations in innovative thermoelectric power: A comprehensive study on material segmentation and cross-section design for multi-facetted excellence, CASE STUDIES IN THERMAL ENGINEERING, 2214-157X, 2023, 10.1016/j.csite.2023.103684, http://dx.doi.org/10.1016/j.csite.2023.103684, https://www.webofscience.com/wos/woscc/full-record/WOS:001119327100001	20/nr. autori	5	20/5 =4,00
76	Salameh, T; Rezk, H; Issa, U; Kamarudin, SK; Abdelkareem, MA; Olabi, AG; Alkasrawi, M; Pongracz, E,	Boosting Biodiesel Production from Dairy-Washed Scum Oil Using Beetle Antennae Search Algorithm and Fuzzy Modelling, RESOURCES-BASEL, 2079-9276, 2023, 10.3390/resources12110131, http://dx.doi.org/10.3390/resources12110131, https://www.webofscience.com/wos/woscc/full-record/WOS:001120727600001	20/nr. autori	5	20/5 =4,00
77	Ghorbani, M; Wang, HL,	Computational modeling and experiment validation of a microchannel cross-flow heat exchanger, INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, 0735-1933, 1879-0178, 2023, 10.1016/j.icheatmasstransfer.2023.107116, http://dx.doi.org/10.1016/j.icheatmasstransfer.2023.107116, https://www.webofscience.com/wos/woscc/full-record/WOS:001101175800001	20/nr. autori	5	20/5 =4,00
78	Wood, TK; Gurgan, I; Howley, ET; Riedel-Kruse, IH,	Converting methane into electricity and higher-value chemicals at scale via anaerobic microbial fuel cells, RENEWABLE & SUSTAINABLE ENERGY REVIEWS, 1364-0321, 1879-0690, 2023, 10.1016/j.rser.2023.113749, http://dx.doi.org/10.1016/j.rser.2023.113749, https://www.webofscience.com/wos/woscc/full-record/WOS:001098987400001	20/nr. autori	5	20/5 =4,00

79	Sanker, PSP; Teja, SR; Ramakrishna, PA; Kumar, S,	Optimization strategies to enhance waste heat recovery from engine coolant using thermoelectric devices, ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 1556-7036, 1556-7230, 2023, 10.1080/15567036.2023.2247355, http://dx.doi.org/10.1080/15567036.2023.2247355, https://www.webofscience.com/wos/woscc/full-record/WOS:001053149300001	20/nr. autori	5	20/5 =4,00
80	Khoshnevisan, A; Changizian, S; Raeesi, M; Ahmadi, P; Javani, N,	Thermal analysis of thermo-electric generator systems in hybrid electric vehicles under different operating conditions, JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, 1388-6150, 1588-2926, 2023, 10.1007/s10973-023-12349-0, http://dx.doi.org/10.1007/s10973-023-12349-0, https://www.webofscience.com/wos/woscc/full-record/WOS:001043701800002	20/nr. autori	5	20/5 =4,00
81	Peng, QK; Liu, RL; Zhou, GM; Zhao, XM; Dong, SR; Zhang, ZJ; Zhang, H,	Summary of Turbocharging as a Waste Heat Recovery System for a Variable Altitude Internal Combustion Engine, ACS OMEGA, 2470-1343, 2023, 10.1021/acsomega.3c02818, http://dx.doi.org/10.1021/acsomega.3c02818, https://www.webofscience.com/wos/woscc/full-record/WOS:001037513900001	20/nr. autori	5	20/5 =4,00
82	Perrone, D; Falbo, L; Morrone, P; Algieri, A,	Techno-economic investigation of integrated biodiesel internal combustion engines and transcritical organic Rankine cycles for small-scale combined heat and power generation, ENERGY CONVERSION AND MANAGEMENT-X, 2590-1745, 2023, 10.1016/j.ecmx.2023.100426, http://dx.doi.org/10.1016/j.ecmx.2023.100426, https://www.webofscience.com/wos/woscc/full-record/WOS:001054435800001	20/nr. autori	5	20/5 =4,00
83	Wu, C; Wan, YK; Xu, XX; Liu, C,	A transcritical carbon dioxide power cycle enhanced by ejector refrigeration for engine waste heat recovery: Comprehensive analysis and optimization, ENERGY CONVERSION AND MANAGEMENT, 0196-8904, 1879-2227, 2023, 10.1016/j.enconman.2023.117428, http://dx.doi.org/10.1016/j.enconman.2023.117428, https://www.webofscience.com/wos/woscc/full-record/WOS:001047604600001	20/nr. autori	5	20/5 =4,00
84	Martinez, A,	Resistance-capacitance thermal models as alternatives to finite-element numerical models in the simulation of thermoelectric modules for electric power generation, ENERGY CONVERSION AND MANAGEMENT, 0196-8904, 1879-2227, 2023, 10.1016/j.enconman.2023.117419, http://dx.doi.org/10.1016/j.enconman.2023.117419, https://www.webofscience.com/wos/woscc/full-record/WOS:001046458000001	20/nr. autori	5	20/5 =4,00
85	Yang, WL; Zhu, WC; Du, BH; Wang, H; Xu, LM; Xie, CJ; Shi, Y,	Power generation of annular thermoelectric generator with silicone polymer thermal conductive oil applied in automotive waste heat recovery, ENERGY, 0360-5442, 1873-6785, 2023, 10.1016/j.energy.2023.128400, http://dx.doi.org/10.1016/j.energy.2023.128400, https://www.webofscience.com/wos/woscc/full-record/WOS:001045753000001	20/nr. autori	5	20/5 =4,00

86	Carvalho, R; Martins, J; Pacheco, N; Puga, H; Costa, J; Vieira, R; Goncalves, LM; Brito, FP,	Experimental validation and numerical assessment of a temperature-controlled thermoelectric generator concept aimed at maximizing performance under highly variable thermal load driving cycles, ENERGY, 0360-5442, 1873-6785, 2023, 10.1016/j.energy.2023.127979, http://dx.doi.org/10.1016/j.energy.2023.127979, https://www.webofscience.com/wos/woscc/full-record/WOS:001037365400001	20/nr. autori	5	20/5 =4,00
87	Yu, XL; Shen, ZY; Qian, G; Lu, GD; Liu, H; Huang, R; Li, Z,	Synergistic improvement of Seebeck coefficient and power density of an aqueous thermocell using natural convection for low-grade heat utilization, APPLIED THERMAL ENGINEERING, 1359-4311, 1873-5606, 2023, 10.1016/j.applthermaleng.2023.121004, http://dx.doi.org/10.1016/j.applthermaleng.2023.121004, https://www.webofscience.com/wos/woscc/full-record/WOS:001022599600001	20/nr. autori	5	20/5 =4,00
88	Aljaghtham, M; Song, G; Garcia-Cañadas, J; Beltrán-Pitarch, B,	Prismatic Spreading-Constriction Expression for the Improvement of Impedance Spectroscopy Models and a More Accurate Determination of the Internal Thermal Contact Resistances of Thermoelectric Modules, ACS APPLIED ELECTRONIC MATERIALS, 2637-6113, 2023, 10.1021/acsaelm.3c00389, http://dx.doi.org/10.1021/acsaelm.3c00389, https://www.webofscience.com/wos/woscc/full-record/WOS:001012234800001	20/nr. autori	5	20/5 =4,00
89	Radouane, N,	Review on thermoelectric aerogels and their applications: progress and challenges, JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, 0928-0707, 1573-4846, 2023, 10.1007/s10971-023-06081-2, http://dx.doi.org/10.1007/s10971-023-06081-2, https://www.webofscience.com/wos/woscc/full-record/WOS:000964850800001	20/nr. autori	5	20/5 =4,00
90	Orjuela-Abril, S; Torregroza-Espinosa, A; Duarte-Forero, J,	Innovative Technology Strategies for the Sustainable Development of Self-Produced Energy in the Colombian Industry, SUSTAINABILITY, 2071-1050, 2023, 10.3390/su15075720, http://dx.doi.org/10.3390/su15075720, https://www.webofscience.com/wos/woscc/full-record/WOS:000970320600001	20/nr. autori	5	20/5 =4,00
91	Zhang, XA; Wang, X; Cai, JW; Wang, R; Bian, XY; Wang, JY; Tian, H; Shu, GQ,	Selection maps of dual-pressure organic Rankine cycle configurations for engine waste heat recovery applications, APPLIED THERMAL ENGINEERING, 1359-4311, 1873-5606, 2023, 10.1016/j.applthermaleng.2023.120478, http://dx.doi.org/10.1016/j.applthermaleng.2023.120478, https://www.webofscience.com/wos/woscc/full-record/WOS:000971554000001	20/nr. autori	5	20/5 =4,00
92	Cao, D; Liu, C; Yang, ZG; Zhang, SD,	A power generation device based on shape memory alloy and piezoelectric ceramic, MATERIALS CHEMISTRY AND PHYSICS, 0254-0584, 1879-3312, 2023, 10.1016/j.matchemphys.2023.127598, http://dx.doi.org/10.1016/j.matchemphys.2023.127598, https://www.webofscience.com/wos/woscc/full-record/WOS:000956312000001	20/nr. autori	5	20/5 =4,00

93	Muchuweni, E; Mombeshora, ET,	Recent advances in thermoelectric performance by incorporating graphene-based materials for energy harvesting, RENEWABLE ENERGY FOCUS, 1755-0084, 1878-0229, 2023, 10.1016/j.ref.2023.02.005, http://dx.doi.org/10.1016/j.ref.2023.02.005, https://www.webofscience.com/wos/woscc/full-record/WOS:000954843600001	20/nr. autori	5	20/5 =4,00
94	Dixit, P; Jana, SS; Maiti, T,	Enhanced Thermoelectric Performance of Rare-Earth-Free n-Type Oxide Perovskite Composite with Graphene Analogous 2D MXene, SMALL, 1613-6810, 1613-6829, 2023, 10.1002/smll.202206710, http://dx.doi.org/10.1002/smll.202206710, https://www.webofscience.com/wos/woscc/full-record/WOS:000939819600001	20/nr. autori	5	20/5 =4,00
95	Yu, C; Song, Y,	Modified Supporting Materials to Fabricate Form Stable Phase Change Material with High Thermal Energy Storage, MOLECULES, 1420-3049, 2023, 10.3390/molecules28031309, http://dx.doi.org/10.3390/molecules28031309, https://www.webofscience.com/wos/woscc/full-record/WOS:000929593600001	20/nr. autori	5	20/5 =4,00
96	Xu, YY; Xue, YQ; Cai, WH; Qi, H; Li, Q,	Experimental study on performances of flat-plate pulsating heat pipes coupled with thermoelectric generators for power generation, INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, 0017-9310, 1879-2189, 2023, 10.1016/j.ijheatmasstransfer.2022.123784, http://dx.doi.org/10.1016/j.ijheatmasstransfer.2022.123784, https://www.webofscience.com/wos/woscc/full-record/WOS:000916568200001	20/nr. autori	5	20/5 =4,00
97	Li, T; Fu, Y; Dong, C; Li, DS; Gu, HD; Ye, YH,	Factors influencing the thermoelectric characteristics of a thermoelectric generator with cold-side micro heat pipe arrays, JOURNAL OF POWER SOURCES, 0378-7753, 1873-2755, 2023, 10.1016/j.jpowsour.2022.232493, http://dx.doi.org/10.1016/j.jpowsour.2022.232493, https://www.webofscience.com/wos/woscc/full-record/WOS:000910901900001	20/nr. autori	5	20/5 =4,00
98	Leng, L; Ma, ZT; Cheng, JH; Shi, L; Deng, KY,	Research on exhaust energy distribution regulation for fuel economy improvement of turbocompound diesel engine, APPLIED THERMAL ENGINEERING, 1359-4311, 1873-5606, 2023, 10.1016/j.applthermaleng.2022.119708, http://dx.doi.org/10.1016/j.applthermaleng.2022.119708, https://www.webofscience.com/wos/woscc/full-record/WOS:000893093400005	20/nr. autori	5	20/5 =4,00
99	Wu, XK; Wang, ZY; Jiang, RH; Tian, Y; Liu, Y; Shi, J; Zhao, WY; Xiong, R,	Enhanced thermoelectric performance of p-type Bi2Te3-based materials by suppressing bipolar thermal conductivity, MATERIALS TODAY PHYSICS, 2542-5293, 2022, 10.1016/j.mtphys.2022.100904, http://dx.doi.org/10.1016/j.mtphys.2022.100904, https://www.webofscience.com/wos/woscc/full-record/WOS:000895352500001	20/nr. autori	5	20/5 =4,00

100	Sok, R; Kusaka, J,	Experimental and modeling analysis on thermoelectric heat recovery to maximize the performance of next-generation diesel engines dedicated for future electrified powertrains, APPLIED THERMAL ENGINEERING, 1359-4311, 1873-5606, 2023, 10.1016/j.applthermaleng.2022.119530, http://dx.doi.org/10.1016/j.applthermaleng.2022.119530, https://www.webofscience.com/wos/woscc/full-record/WOS:000882027800002	20/nr. autori	5	20/5 =4,00
101	Erden, F; Akgul, B; Danaci, I; Oner, MR,	Thermoelectric and thermomechanical properties of invar 36: Comparison with common thermoelectric materials, JOURNAL OF ALLOYS AND COMPOUNDS, 0925-8388, 1873-4669, 2023, 10.1016/j.jallcom.2022.167690, http://dx.doi.org/10.1016/j.jallcom.2022.167690, https://www.webofscience.com/wos/woscc/full-record/WOS:000917295500002	20/nr. autori	5	20/5 =4,00
102	Wang, JJ; Chen, HY; Deng, HD; Dong, FX,	A combined power and steam system integrated with solar photovoltaic/thermal collector: Thermodynamic characteristics and cost-benefit analyses, CASE STUDIES IN THERMAL ENGINEERING, 2214-157X, 2022, 10.1016/j.csite.2022.102477, http://dx.doi.org/10.1016/j.csite.2022.102477, https://www.webofscience.com/wos/woscc/full-record/WOS:000874681200006	20/nr. autori	5	20/5 =4,00
103	He, YY; Wei, Y; Qian, YY; Wang, CY; Liu, YJ; Ye, ZX; Chen, G,	A flexible phase change organohydrogel created using Pickering emulsion technology for thermoelectric conversion and temperature sensing, JOURNAL OF MATERIALS CHEMISTRY A, 2050-7488, 2050-7496, 2022, 10.1039/d2ta04665b, http://dx.doi.org/10.1039/d2ta04665b, https://www.webofscience.com/wos/woscc/full-record/WOS:000847513400001	20/nr. autori	5	20/5 =4,00
104	Wehbi, Z; Taher, R; Faraj, J; Ramadan, M; Castelain, C; Khaled, M,	A short review of recent studies on wastewater heat recovery systems: Types and applications, ENERGY REPORTS, 2352-4847, 2022, 10.1016/j.egyr.2022.07.104, http://dx.doi.org/10.1016/j.egyr.2022.07.104, https://www.webofscience.com/wos/woscc/full-record/WOS:000841651400040	20/nr. autori	5	20/5 =4,00
105	Yin, FF; Nie, BS; Wei, YY; Lin, SS,	Co-Production System Based on Lean Methane and Biogas for Power Generation in Coal Mines, ATMOSPHERE, 2073-4433, 2022, 10.3390/atmos13050803, http://dx.doi.org/10.3390/atmos13050803, https://www.webofscience.com/wos/woscc/full-record/WOS:000802402500001	20/nr. autori	5	20/5 =4,00
Articol citat					
	Burnete, Nicolae Vlad, Florin Mariasiu, Dan Moldovanu, and Christopher Depcik.	"Simulink model of a thermoelectric generator for vehicle waste heat recovery." Applied Sciences 11, no. 3 (2021): 1340. https://www.webofscience.com/wos/woscc/full-record/WOS:000615001000001			
Articol care citează					
106	Gopinath, M; Muthuswamy, N; Marimuthu, R,	Graphite sheet assisted photovoltaic -thermoelectric generator for hydrogen generation from seawater, ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 1556-7036, 1556-7230,	20/nr. autori	4	20/4 =5,00

		2024, 10.1080/15567036.2024.2329349, http://dx.doi.org/10.1080/15567036.2024.2329349, https://www.webofscience.com/wos/woscc/full-record/WOS:001185281100001			
107	Eltaweel, M; Herfatmanesh, MR,	Enhancing vehicular performance with flywheel energy storage systems: Emerging technologies and applications, JOURNAL OF ENERGY STORAGE, 2352-152X, 2352-1538, 2024, 10.1016/j.est.2024.114386, http://dx.doi.org/10.1016/j.est.2024.114386, https://www.webofscience.com/wos/woscc/full-record/WOS:001355421700001	20/nr. autori	4	20/4 =5,00
108	Gopinath, M; Marimuthu, R,	Experimental study of photovoltaic-thermoelectric generator with graphite sheet, CASE STUDIES IN THERMAL ENGINEERING, 2214-157X, 2024, 10.1016/j.csite.2024.103982, http://dx.doi.org/10.1016/j.csite.2024.103982, https://www.webofscience.com/wos/woscc/full-record/WOS:001157407900001	20/nr. autori	4	20/4 =5,00
109	Gopinath, M; Marimuthu, R,	Comparative study of hydrogen production from seawater and groundwater using PV-TEG, CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY, 1618-954X, 1618-9558, 2023, 10.1007/s10098-023-02569-1, http://dx.doi.org/10.1007/s10098-023-02569-1, https://www.webofscience.com/wos/woscc/full-record/WOS:001025419000001	20/nr. autori	4	20/4 =5,00
110	Gong, YZ; Zhou, SZ; Chen, G,	Design and Research of Thermoelectric Generator Simulation System for Boiler Flue Gas Waste Heat, APPLIED SCIENCES-BASEL, 2076-3417, 2023, 10.3390/app13095673, http://dx.doi.org/10.3390/app13095673, https://www.webofscience.com/wos/woscc/full-record/WOS:000986683400001	20/nr. autori	4	20/4 =5,00
111	Gopinath, M; Marimuthu, R,	PV-TEG output: Comparison with heat sink and graphite sheet as heat dissipators, CASE STUDIES IN THERMAL ENGINEERING, 2214-157X, 2023, 10.1016/j.csite.2023.102935, http://dx.doi.org/10.1016/j.csite.2023.102935, https://www.webofscience.com/wos/woscc/full-record/WOS:000964961800001	20/nr. autori	4	20/4 =5,00
112	Kapim, AD; Nangmetio, CA; Kuatche, NJ,	Computational Improvement of the Performance of a Thermoelectric Element (Generator and Cooler) Using an External Magnetic Field, JOURNAL OF ELECTRONIC MATERIALS, 0361-5235, 1543-186X, 2023, 10.1007/s11664-022-10072-4, http://dx.doi.org/10.1007/s11664-022-10072-4, https://www.webofscience.com/wos/woscc/full-record/WOS:000912879300001	20/nr. autori	4	20/4 =5,00
113	Wang, X; Henshaw, P; Ting, DSK,	Using a hyperbolic structure to enhance thse dynamic performance of a thermoelectric generator, THERMAL SCIENCE AND ENGINEERING PROGRESS, 2451-9049, 2022, 10.1016/j.tsep.2022.101493, http://dx.doi.org/10.1016/j.tsep.2022.101493, https://www.webofscience.com/wos/woscc/full-	20/nr. autori	4	20/4 =5,00

		record/WOS:000867654600001			
114	Üstüner, MA; Mamur, H; Taskin, S,	Modeling and validation of the thermoelectric generator with considering the change of the Seebeck effect and internal resistance, TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, 1300-0632, 1303-6203, 2022, 10.55730/1300-0632.3963, http://dx.doi.org/10.55730/1300-0632.3963, https://www.webofscience.com/wos/woscc/full-record/WOS:000898559800014	20/nr. autori	4	20/4 =5,00
115	Golonek, T,	Evolutionary Maximization of Energy Amount Harvested by Means of Panel of Thermoelectric Modules, APPLIED SCIENCES-BASEL, 2076-3417, 2022, 10.3390/app12020539, http://dx.doi.org/10.3390/app12020539, https://www.webofscience.com/wos/woscc/full-record/WOS:000747266200001	20/nr. autori	4	20/4 =5,00
116	Tempelhagen, R; Gerlach, A; Benecke, S; Klepatz, K; Leidhold, R; Rottengruber, H,	Investigations for a Trajectory Variation to Improve the Energy Conversion for a Four-Stroke Free-Piston Engine, APPLIED SCIENCES-BASEL, 2076-3417, 2021, 10.3390/app11135981, http://dx.doi.org/10.3390/app11135981, https://www.webofscience.com/wos/woscc/full-record/WOS:000672296800001	20/nr. autori	4	20/4 =5,00
Articol citat					
	Moldovanu, D., A. Molea, and I. Barabás.	"Preliminary results on nano-diamond and nano-graphite testing as additive for an engine lubrication oil." In IOP Conference Series: Materials Science and Engineering, vol. 724, no. 1, p. 012047. IOP Publishing, 2020. https://www.webofscience.com/wos/woscc/full-record/WOS:000619349400047			
Articol care citează					
117	Bas, H; Karabacak, YE,	Investigating the Effects of Oil Additives on the Tribological Performance of Hydrodynamic Journal Bearings: A Study With Hazelnut Oil in Boundary and Mixed Lubrication Regimes, LUBRICATION SCIENCE, 0954-0075, 1557-6833, 10.1002/ls.1725, http://dx.doi.org/10.1002/ls.1725, https://www.webofscience.com/wos/woscc/full-record/WOS:001315799400001	20/nr. autori	3	20/3 =6,67
118	Zhong, HY; Wang, Q; Qu, JY; Li, XQ; Mukerabigwi, JF; Asibaike, L; Fang, YL; Cao, Y,	Dispersion of reduced nanodiamond and its application in lubrication, MATERIALS TODAY COMMUNICATIONS, 2352-4928, 10.1016/j.mtcomm.2023.106999, http://dx.doi.org/10.1016/j.mtcomm.2023.106999, https://www.webofscience.com/wos/woscc/full-record/WOS:001075773500001	20/nr. autori	3	20/3 =6,67
119	Guo, JD; Zhao, YX; Sun, B; Wang, PC; Wang, ZJ; Dong, H,	Research Progress of Nano Copper Lubricant Additives on Engineering Tribology, METALS, 2075-4701, 10.3390/met11122006, http://dx.doi.org/10.3390/met11122006, https://www.webofscience.com/wos/woscc/full-record/WOS:000736319800001	20/nr. autori	3	20/3 =6,67
120	Abdel-Rehim, AA; Akl, S;	Investigation of the Tribological Behavior of Mineral	20/nr.	3	20/3

	Elsoudy, S,	Lubricant Using Copper Oxide Nano Additives, LUBRICANTS, 2075-4442, 10.3390/lubricants9020016, http://dx.doi.org/10.3390/lubricants9020016, https://www.webofscience.com/wos/woscc/full-record/WOS:000622733600001	autori		=6,67
Articol citat					
	Mattson, Jonathan, Nicolae Vlad Burnete, Christopher Depcik, Dan Moldovanu, and Nicolae Burnete.	"Second law analysis of waste cooking oil biodiesel versus ULSD during operation of a CI engine." Fuel 255 (2019): 115753. https://www.webofscience.com/wos/woscc/full-record/WOS:000479141700113			
Articol care citează					
121	Durairaj, KP; Mahalingam, KR; Perumalsamy, A; Ananthan, B,	Evaluating methyl ester from used cooking oil as liquid insulation with solid insulation for transformers, ELECTRICAL ENGINEERING, 0948-7921, 1432-0487, 2025, 10.1007/s00202-025-03079-7, http://dx.doi.org/10.1007/s00202-025-03079-7, https://www.webofscience.com/wos/woscc/full-record/WOS:001472798400001	20/nr. autori	5	20/5 =4
122	Subrahmanyam, DVSRBM; Jegathesan, M,	Experimental Investigation of Performance, Combustion and Emission Characteristics of A Variable Compression Ratio Engine Using Waste Cooking Oil Biodiesel Blends, INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, 1309-0127, 2024, https://www.webofscience.com/wos/woscc/full-record/WOS:001247133800018	20/nr. autori	5	20/5 =4
123	Eremeeva, AM; Kondrasheva, NK; Khasanov, AF; Oleynik, IL,	Environmentally Friendly Diesel Fuel Obtained from Vegetable Raw Materials and Hydrocarbon Crude, ENERGIES, 1996-1073, 2023, 10.3390/en16052121, http://dx.doi.org/10.3390/en16052121, https://www.webofscience.com/wos/woscc/full-record/WOS:000947453500001	20/nr. autori	5	20/5 =4
124	Nabgan, W; Jalil, AA; Nabgan, B; Jadhav, AH; Ikram, M; Ul-Hamid, A; Ali, MW; Hassan, NS,	Sustainable biodiesel generation through catalytic transesterification of waste sources: a literature review and bibliometric survey, RSC ADVANCES, 2046-2069, 2022, 10.1039/d1ra07338a, http://dx.doi.org/10.1039/d1ra07338a, https://www.webofscience.com/wos/woscc/full-record/WOS:000740786300001	20/nr. autori	5	20/5 =4
125	Liu, CC; Liu, ZC; Tian, J; Yang, ZY; Wang, PH,	Detailed Evaluation of Automotive Turbocharged Diesel Engine During Typical Transient Working Condition Based on Thermodynamic Analysis, JOURNAL OF ENGINEERING FOR GAS TURBINES AND POWER-TRANSACTIONS OF THE ASME, 0742-4795, 1528-8919, 2021, 10.1115/1.4051500, http://dx.doi.org/10.1115/1.4051500, https://www.webofscience.com/wos/woscc/full-record/WOS:000701931600003	20/nr. autori	5	20/5 =4
126	Ranjan, A; Dawn, SS; Nirmala, N; Santhosh, A; Arun, J,	Application of deep eutectic solvent in biodiesel reaction: RSM optimization, CI engine test, cost analysis and research dynamics, FUEL, 0016-2361, 1873-7153, 2022, 10.1016/j.fuel.2021.121933, http://dx.doi.org/10.1016/j.fuel.2021.121933, https://www.webofscience.com/wos/woscc/full-	20/nr. autori	5	20/5 =4

		record/WOS:000702864300003			
127	Tran, VD; Le, AT; Hoang, AT,	An Experimental Study on the Performance Characteristics of a Diesel Engine Fueled with ULSD-Biodiesel Blends, INTERNATIONAL JOURNAL OF RENEWABLE ENERGY DEVELOPMENT-IJRED, 2252-4940, 2021, 10.14710/ijred.2021.34022, http://dx.doi.org/10.14710/ijred.2021.34022, https://www.webofscience.com/wos/woscc/full-record/WOS:000705950500003	20/nr. autori	5	20/5 =4
128	Sahu, TK; Sarkar, S; Shukla, PC,	Combustion investigation of waste cooking oil (WCO) with varying compression ratio in a single cylinder CI engine, FUEL, 0016-2361, 1873-7153, 2021, 10.1016/j.fuel.2020.119262, http://dx.doi.org/10.1016/j.fuel.2020.119262, https://www.webofscience.com/wos/woscc/full-record/WOS:000584919700063	20/nr. autori	5	20/5 =4
Articol citat					
	Motogna, Marius Simion, Dan Moldovanu, and Florin Mariasiu.	"Numerical analysis of fuel flow patterns at the nozzle exit considering different fuels and operating parameters of a diesel engine." Transactions of FAMENA 42, no. 4 (2018): 63-74. https://www.webofscience.com/wos/woscc/full-record/WOS:000460749400006			
Articol care citează					
129	Wang, YJ; Chen, YH; Li, XL; Xu, CS; Wei, WJ; Zhao, JH; Jin, J; Oppong, F,	Spatiotemporal Evolution of Gas in Transmission Fluid under Acoustic Cavitation Conditions, APPLIED SCIENCES-BASEL, 2076-3417, 2024, 10.3390/app14146233, http://dx.doi.org/10.3390/app14146233, https://www.webofscience.com/wos/woscc/full-record/WOS:001276651700001	20/nr. autori	3	20/3 =6,67
130	Sengottaiyan, K; Swaminathan, MR; Vencent, CA; Kumaresan, G,	SPRAY CHARACTERISTICS OF A ROTATING FUEL INJECTOR IN A DIRECT INJECTION DIESEL ENGINE, TRANSACTIONS OF FAMENA, 1333-1124, 2023, 10.21278/TOF.472035621, http://dx.doi.org/10.21278/TOF.472035621, https://www.webofscience.com/wos/woscc/full-record/WOS:001012744200001	20/nr. autori	3	20/3 =6,67
131	Sekar, RR; Srinivasan, R; Muralidharan, K,	INVESTIGATION OF THE PERFORMANCE AND EMISSION CHARACTERISTICS OF CEIBA PENTANDRA BIODIESEL BLENDS IN A VARIABLE COMPRESSION RATIO ENGINE, TRANSACTIONS OF FAMENA, 1333-1124, 2022, 10.21278/TOF.464025120, http://dx.doi.org/10.21278/TOF.464025120, https://www.webofscience.com/wos/woscc/full-record/WOS:000895239000001	20/nr. autori	3	20/3 =6,67
Articol citat					
	Moldovanu, Dan, and Florin Mariasiu.	"Influences of chemical characteristics and nanoadditive participation on raw vegetable oils' tribological properties." Journal of the Brazilian Society of Mechanical Sciences and Engineering 39 (2017): 2713-2720. https://www.webofscience.com/wos/woscc/full-record/WOS:000403448300028			

Articol care citează					
132	Wang, YJ; Chen, YH; Li, XL; Xu, CS; Wei, WJ; Zhao, JH; Jin, J; Oppong, F,	Spatiotemporal Evolution of Gas in Transmission Fluid under Acoustic Cavitation Conditions, APPLIED SCIENCES-BASEL, 2076-3417, 2024, 10.3390/app14146233, http://dx.doi.org/10.3390/app14146233, https://www.webofscience.com/wos/woscc/full-record/WOS:001276651700001	20/nr. autori	2	20/2 =10
133	Sengottaiyan, K; Swaminathan, MR; Vencent, CA; Kumaresan, G,	SPRAY CHARACTERISTICS OF A ROTATING FUEL INJECTOR IN A DIRECT INJECTION DIESEL ENGINE, TRANSACTIONS OF FAMENA, 1333-1124, 2023, 10.21278/TOF.472035621, http://dx.doi.org/10.21278/TOF.472035621, https://www.webofscience.com/wos/woscc/full-record/WOS:001012744200001	20/nr. autori	2	20/2 =10
134	Sekar, RR; Srinivasan, R; Muralidharan, K,	INVESTIGATION OF THE PERFORMANCE AND EMISSION CHARACTERISTICS OF CEIBA PENTANDRA BIODIESEL BLENDS IN A VARIABLE COMPRESSION RATIO ENGINE, TRANSACTIONS OF FAMENA, 1333-1124, 2022, 10.21278/TOF.464025120, http://dx.doi.org/10.21278/TOF.464025120, https://www.webofscience.com/wos/woscc/full-record/WOS:000895239000001	20/nr. autori	2	20/2 =10
Articol citat					
	Mariasiu, Florin, Nicolae V. Burnete, Dan Moldovanu, Bogdan O. Varga, Calin Iclodean, and Levente Kocsis.	"Effects of bioethanol ultrasonic generated aerosols application on diesel engine performances." Thermal science 19, no. 6 (2015): 1931-1941. https://www.webofscience.com/wos/woscc/full-record/WOS:000367565400007			
Articol care citează					
135	Sharma, A; Singh, Y; Ansari, NA; Pal, A; Lalhriatpuia, S,	Experimental investigation of the behaviour of a DI diesel engine fuelled with biodiesel/diesel blends having effect of raw biogas at different operating responses, FUEL, 0016-2361, 1873-7153, 2020, 10.1016/j.fuel.2020.118460, http://dx.doi.org/10.1016/j.fuel.2020.118460, https://www.webofscience.com/wos/woscc/full-record/WOS:000560042800004	20/nr. autori	6	20/6 =3.34
136	Ghadikolaei, MA; Yung, KF; Cheung, CS; Ho, SSH; Wong, PK,	Non-polar organic compounds, volatility and oxidation reactivity of particulate matter emitted from diesel engine fueled with ternary fuels in blended and fumigation modes, CHEMOSPHERE, 0045-6535, 1879-1298, 2020, 10.1016/j.chemosphere.2020.126086, http://dx.doi.org/10.1016/j.chemosphere.2020.126086, https://www.webofscience.com/wos/woscc/full-record/WOS:000527935600017	20/nr. autori	6	20/6 =3.34
137	Ghadikolaei, MA; Wei, L; Cheung, CS; Yung, KF; Ning, Z,	Particulate emission and physical properties of particulate matter emitted from a diesel engine fueled with ternary fuel (diesel-biodiesel-ethanol) in blended and fumigation modes, FUEL, 0016-2361, 1873-7153, 2020, 10.1016/j.fuel.2019.116665, http://dx.doi.org/10.1016/j.fuel.2019.116665, https://www.webofscience.com/wos/woscc/full-record/WOS:000504834400098	20/nr. autori	6	20/6 =3.34

138	Ryblov, M; Ukhanov, A,	IMPROVING OF TRANSPORT DIESEL ENGINES ENERGY EFFICIENCY AND ENVIRONMENTAL SAFETY BY FUMIGATION OF AIR CHARGE, SCIENTIFIC PAPERS-SERIES E-LAND RECLAMATION EARTH OBSERVATION & SURVEYING ENVIRONMENTAL ENGINEERING, 2285-6064, 2020, https://www.webofscience.com/wos/woscc/full-record/WOS:000574608100007	20/nr. autori	6	20/6 =3.34
139	Rosa, JS; Altafini, CR; Wander, PR; Telli, GD; Rocha, LAO,	Wet ethanol fumigation on a compression ignition engine: effects of air intake throttled, JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, 1678-5878, 1806-3691, 2019, 10.1007/s40430-019-2023-1, http://dx.doi.org/10.1007/s40430-019-2023-1, https://www.webofscience.com/wos/woscc/full-record/WOS:000492201800001	20/nr. autori	6	20/6 =3.34
140	Ghadikolaei, MA; Cheung, CS; Yung, KF,	Comparison between blended mode and fumigation mode on combustion, performance and emissions of a diesel engine fueled with ternary fuel (diesel-biodiesel-ethanol) based on engine speed, JOURNAL OF THE ENERGY INSTITUTE, 1743-9671, 1746-0220, 2019, 10.1016/j.joei.2018.10.010, http://dx.doi.org/10.1016/j.joei.2018.10.010, https://www.webofscience.com/wos/woscc/full-record/WOS:000482872000001	20/nr. autori	6	20/6 =3.34
141	Ghadikolaei, MA; Yung, KF; Cheung, CS; Lau, PC,	Chemical properties and composition of PM emitted from a diesel engine fueled with ternary fuel (diesel-biodiesel-ethanol) in blended and fumigation modes, FUEL, 0016-2361, 1873-7153, 2019, 10.1016/j.fuel.2019.04.007, http://dx.doi.org/10.1016/j.fuel.2019.04.007, https://www.webofscience.com/wos/woscc/full-record/WOS:000468734300033	20/nr. autori	6	20/6 =3.34
142	Ghadikolaei, MA; Cheung, CS; Yung, KF,	Study of combustion, performance and emissions of a diesel engine fueled with ternary fuel in blended and fumigation modes, FUEL, 0016-2361, 1873-7153, 2019, 10.1016/j.fuel.2018.07.089, http://dx.doi.org/10.1016/j.fuel.2018.07.089, https://www.webofscience.com/wos/woscc/full-record/WOS:000447791900028	20/nr. autori	6	20/6 =3.34
143	Telli, GD; Altafini, CR; Rosa, JS; Costa, CA,	Experimental investigation of a compression ignition engine operating on B7 direct injected and hydrous ethanol fumigation, ENERGY, 0360-5442, 1873-6785, 2018, 10.1016/j.energy.2018.09.171, http://dx.doi.org/10.1016/j.energy.2018.09.171, https://www.webofscience.com/wos/woscc/full-record/WOS:000455171600009	20/nr. autori	6	20/6 =3.34
144	Ryblov, MV; Ukhanov, DA; Ukhanov, AP,	Developing the Automatic System for the Multi-Point Fumigation of Air Charge in the Diesel Engine, MORDOVIA UNIVERSITY BULLETIN, 0236-2910, 2313-0636, 2018, 10.15507/0236-2910.028.201804.523-536, http://dx.doi.org/10.15507/0236-2910.028.201804.523-536, https://www.webofscience.com/wos/woscc/full-record/WOS:000453318300004	20/nr. autori	6	20/6 =3.34

145	Xiao, HL; Zeng, PF; Zhao, LR; Li, ZZ; Fu, XW,	AN EXPERIMENTAL STUDY OF THE COMBUSITION AND EMISSION PERFORMANCES OF 2,5-DIMETHYLFURAN DIESEL BLENDS ON A DIESEL ENGINE, THERMAL SCIENCE, 0354-9836, 2334-7163, 2017, 10.2298/TSCI160526226X, http://dx.doi.org/10.2298/TSCI160526226X, https://www.webofscience.com/wos/woscc/full-record/WOS:000397838500015	20/nr. autori	6	20/6 =3.34
Articol citat					
	Moldovanu, Dan, and Nicolae Burnete.	"Computational fluid dynamics simulation of a single cylinder research engine working with biodiesel." Thermal Science 17, no. 1 (2013): 195-203. https://www.webofscience.com/wos/woscc/full-record/WOS:000315175600018			
Articol care citează					
146	Karami, R; Rasul, MG; Khan, MMK,	An Empirical and Computational Fluid Dynamics Analysis of Combustion Performance of a Diesel Engine Fueled With Tomato Seed Oil Biodiesel, JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME, 0195-0738, 1528-8994, 2023, 10.1115/1.4055470, http://dx.doi.org/10.1115/1.4055470, https://www.webofscience.com/wos/woscc/full-record/WOS:000941720100006	20/nr. autori	2	20/2 =10
147	Temizer, I; Cihan, O,	Effect of piston geometry on combustion characteristics of CI engine used Sal seed oil, INTERNATIONAL JOURNAL OF ENGINE RESEARCH, 1468-0874, 2041-3149, 2023, 10.1177/14680874221143405, http://dx.doi.org/10.1177/14680874221143405, https://www.webofscience.com/wos/woscc/full-record/WOS:000901445000001	20/nr. autori	2	20/2 =10
148	Varga, BO; Mariasiu, F,	INDIRECT ENVIRONMENT-RELATED EFFECTS OF ELECTRIC CAR VEHICLES USE, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, 1582-9596, 1843-3707, 2018, https://www.webofscience.com/wos/woscc/full-record/WOS:000441723100008	20/nr. autori	2	20/2 =10
149	Burnete, NV,	SEPARATE DIRECT INJECTION OF DIESEL AND ETHANOL A Numerical Analysis, THERMAL SCIENCE, 0354-9836, 2334-7163, 2017, 10.2298/TSCI160824274B, http://dx.doi.org/10.2298/TSCI160824274B, https://www.webofscience.com/wos/woscc/full-record/WOS:000397838500007	20/nr. autori	2	20/2 =10
150	Varga, BO; Iclodean, C; Mariasiu, F,	Electric and Hybrid Buses for Urban Transport Energy Efficiency Strategies Introduction, ELECTRIC AND HYBRID BUSES FOR URBAN TRANSPORT: ENERGY EFFICIENCY STRATEGIES, 1865-3529, 978-3-319-41249-8; 978-3-319-41248-1, 2016, 10.1007/978-3-319-41249-8_1, http://dx.doi.org/10.1007/978-3-319-41249-8_1, https://www.webofscience.com/wos/woscc/full-record/WOS:000399245000002	20/nr. autori	2	20/2 =10
151	Nanjappan, B; Kavandappa Goundar, M; Natarajan, N,	EXPERIMENTAL INVESTIGATION OF EVAPORATION RATE AND EMISSION STUDIES OF DIESEL ENGINE FUELLED WITH BLENDS OF USED VEGETABLE OIL	20/nr. autori	2	20/2 =10

		BIODIESEL AND PRODUCER GAS, THERMAL SCIENCE, 0354-9836, 2334-7163, 2015, 10.2298/TSCI150604106B, http://dx.doi.org/10.2298/TSCI150604106B, https://www.webofscience.com/wos/woscc/full-record/WOS:000367565400010			
152	He, JX; Zhou, YM; Qi, K; Liu, FJ,	CONTINUOUS NANOFIBER YARNS TWISTED THROUGH THREE-DIMENSIONAL HIGH-SPEED SWIRLING AIRFLOW, THERMAL SCIENCE, 0354-9836, 2334-7163, 2013, 10.2298/TSCI1305269H, http://dx.doi.org/10.2298/TSCI1305269H, https://www.webofscience.com/wos/woscc/full-record/WOS:000329080500003	20/nr. autori	2	20/2 =10
153	Ozener, O; Yuksek, L; Ozkan, M,	ARTIFICIAL NEURAL NETWORK APPROACH TO PREDICTING ENGINE-OUT EMISSIONS AND PERFORMANCE PARAMETERS OF A TURBO CHARGED DIESEL ENGINE, THERMAL SCIENCE, 0354-9836, 2334-7163, 2013, 10.2298/TSCI120321220O, http://dx.doi.org/10.2298/TSCI120321220O, https://www.webofscience.com/wos/woscc/full-record/WOS:000315175600015	20/nr. autori	2	20/2 =10
				`Subtotal 3.1.1	**698.45**
				SUBTOTAL 3.1	**698.45**

3.4 Membru în colectivele de redacție sau comitetele științifice ale revistelor sau manifestărilor științifice. Organizator de manifestări științifice/Recenzor

3.4.1. Reviste ISI cu factor de impact

3.4.1.2. Recenzor (Dovada)

Nr. crt.	Nume jurnal	Titlu articol	Indicator (kpi)	Punctaj
0	1	2	3	4
1	Energies (ISSN 1996-1073)	End of electric vehicle batteries: Reuse vs. Recycle	10/articol recenzat	10
2	Sensors (ISSN 1424-8220)	TDNN-Based Engine In-Cylinder Pressure Estimation From Shaft Velocity Spectral Representation	10/articol recenzat	10
3	Energies (ISSN 1996-1073)	Effect of Multi-factor Coupling on the Movement Characteristics of the Hydraulic Variable Valve Actuation	10/articol recenzat	10
4	Sustainability (ISSN 2071-1050)	Lifecycle Carbon Value of Bus Electrification in Macau	10/articol recenzat	10
5	Applied Sciences (ISSN 2076-3417)	Comparative Study on the Energetic and Ecologic Parameters of Dual Fuels (Diesel – NG and HVO – Biogas) and Conventional Diesel Fuel in a CI Engine	10/articol recenzat	10
6	Energies (ISSN 1996-1073)	Hybrid Internal Combustion Engine based Auxiliary Power Unit for Heavy Vehicles	10/articol recenzat	10
7	Energies (ISSN 1996-1073)	Maximising Yield and Engine Efficiency Using 2 Optimised Waste Cooking Oil Biodiesel (2020)	10/articol recenzat	10
8	WEVJ (ISSN 2032-6653)	Comparative Analysis of Public Transport Options in Cuenca: Selecting Electric Buses as a Transport Mode	10/articol recenzat	10
9	Batteries (ISSN 2313-0105)	CAN interface insights for electric vehicle battery recycling	10/articol recenzat	10
10	Water (ISSN 2073-4441)	A new model of hydraulic valve for building installations, with a sliding command and which works completely embedded in the masonry	10/articol recenzat	10

Subtotal 3.4.1.2	**100**
Subtotal 3.4.2	**100**

3.6 Referent în comisii de doctorat/abilitare; Membru în echipe de îndrumare doctorat

3.6.2 Național

Nr. crt.	Doctorand	Titlul tezei /Instituție organizatoare de studii doctorale / Școală Doctorală / Domeniu de doctorat	Indicator (kpi)	Punctaj
1	Doctorand C*** A***	Cercetări privind utilizarea mediilor virtuale în testarea și dezvoltarea sistemelor de siguranță activă ale autovehiculelor / UTCN / IOSUDUTCN / Inginerie Mecanică	5	5
2	Doctorand C*** G***	Cercetari privind posibilitatile de utilizare a mediului IoT in exploatarea optima a vehiculelor / UTCN / IOSUDUTCN / Inginerie Mecanică	5	5
3	Doctorand C*** H***	Satbilirea regimului de exploatare și eficiență al autovehiculelor electrice destinate transportului de persoane, alimentate cu pile de combustie cu hidrogen / UTCN / IOSUDUTCN / Inginerie Mecanică	5	5
4	Doctorand G*** C***	Cercetari privind aplicarea metodelor de inteligenta artificiala in tehnologia vehiculara V2X / UTCN / IOSUDUTCN / Inginerie Mecanică	5	5
5	Doctorand G** C2***	Cercetari privind cresterea eficientei procesului de reducere a emisiilor poluante in sisteme catalitice selective / UTCN / IOSUDUTCN / Inginerie Mecanică	5	5
6	Doctorand G** P**	Dezvoltarea unui algoritm pentru controlul și optimizarea unei suspensii semi-active cu scopul maximizării stabilității și confortului unui autovehicul / UTCN / IOSUDUTCN / Inginerie Mecanică	5	5
7	Doctorand I** O**	Dezvoltarea unui sistem de management de flotă a autovehiculelor modulare autonome în diferite scenarii de transport / UTCN / IOSUDUTCN / Inginerie Mecanică	5	5
		Subtotal 3.6.2		**35**
		SUBTOTAL 3.4		**35**

3.7. Premii / distincții

3.7.1. Academia Română

Nr. crt.	An	Tip	Indicator (kpi)	Punctaj
1	2024	Premiul Traian Vuia pentru grupul de lucrări: Progrese în eficiența sistemelor de propulsie pentru vehicule	30pct/premiu	30
		Subtotal 3.7.1		**30**
		SUBTOTAL 3.7		**30**

3.8 Membru în academii, organizații, asociații profesionale de prestigiu, naționale și internaționale, apartenență la organizații din domeniul educației și cercetării

3.8.4 Membru în asociații profesionale

3.8.4.2 Naționale

Nr. crt.	Denumire asociație profesională		Indicator (kpi)	Punctaj
1	SIAR – Societatea Inginerilor de Automobile din România	Dovada	5	5
2	ASART, Asociatia Inginerilor de Autovehicule Rutiere si Transporturi	Dovada	5	5
		Subtotal 3.8.4.2		**10**
		Subtotal 3.8.4		**10**

TOTAL A3: 873,45 puncte

Data: 18.12.2025 Candidat:

Conf. dr. ing. Dan Moldovanu