

Universitatea din Petroșani
 Facultatea de Inginerie Mecanică și Electrică
 Departamentul: Inginerie Mecanică, Industrială și Transporturi

Domeniul: Mine, Petrol și Gaze
 Comisia CNATDCU: Inginerie Geologică, Inginerie Geodezică, Mine, Petrol și Gaze
 Candidat: Prof.univ.habil.dr.ing. ANDRAȘ ANDREI

FIȘA DE VERIFICARE

privind îndeplinirii standardelor minimale și obligatorii pentru acordarea atestatului de abilitare

Anexa nr. 12 / Ordinul Nr. 6129 / 20.12.2016

Nr. Crt.	Domeniul activităților	Tipul activităților	Categorii și restricții	Subcategorii	Indicatori unitari	Punctaj realizat
0	1	2	3	4	5	6
1	Activitatea didactică și profesională A1	1.1 Carti si capitole în carti de specialitate	1.1.1. Carti/ capitole ca autor; pentru Profesor / CSI minim 4, din care 1 prim autor	1.1.1.1 Internationale	nr.pagini/ nr.autori	
				1. Sorin Mihai Radu, Florin Dumitru Popescu, Andrei Andraș , Ildiko Kertesz, <i>Mining Transportation and Equipment</i> , LAP Lambert Academic Publishing, 2019, ISBN: 978-3-330-34503-4	=292/4	73
				2. Tomuș O.B., Jula D, Andras A. , Popescu F., <i>Study On The Operating Lifetime Of The Break Pads Of The Loadinghauling Machines. - Monografia Problemy Transportu I Przerobki W Gornictwie Modelowanie Procesow</i> , pag. 247 – 254, Akademia Gorniczo-Hutnicza. Krakow 2017. ISBN 978-83-930353-7-3	=8/4	2
				3. A. Andraș , I. Andraș, C.A. Alexandru Stoica, <i>Optimal Design Of Teeth For Bucket Wheel Excavators In View To Increasing The Cutting Efficiency - Monografia Problemy Eksploatacji I Zarządzania W Górnictwie</i> . 9-16 pp, Akademia Gorniczo-Hutnicza. Krakow 2017, ISBN 978-83-930353-7-3	=8/4	2
				4. Radu, S.M, Andraș, A. , Prip, I, Ionițescu, N., <i>An overview of results obtained in the field of water jet and water jet assisted cutting of different rocks and materials</i> , Monografia Nowoczesne metody eksploatacji węgla i skał związanych. Krakow, 2015. Pag. 52-59, Akademia Górnico-Hutnicza.. Krakow, ISBN 978-83-930353-5-9	=8/4	2
				5. Andraș, A. , Andraș, I., Kovacs, J, Tomuș. O.B., <i>Artificial Intelligence, Mechatronics and robotics in Mining Equipment Development</i> , Monografia Problemy transportu i przeróbki w górnictwie. Modelowanie procesów. Krakow, 2015. Pag. 134-149, Akademia Górnico-Hutnicza.. Krakow, 2015, ISBN 978-83-930353-9-7	=16/4	4

			6. Kovacs, J, Andraş, I., Andraş, A. , Tomuş. O.B., <i>Overview Of The Results Obtained In The Field Of Rock Cutting In Underground And Open Pit Conditions. Monografia Nowoczesne metody eksploatacji węgla i skał zwięzłych</i> . Krakow, 2013. Pag. 9-16, Akademia Górniczo-Hutnicza.. Krakow, ISBN 978-83-930353-1-1	=8/4	2		
			1.1.1.2 Naționale (Edituri recunoscute CNCISIS)		<u>nr.pagini/</u> <u>(2*nr.autori)</u>		
			1. Popescu Florin Dumitru, Radu Sorin Mihai, Andras Andrei , Brinas Ildiko, <i>Infografică, modelare și simulare asistată de calculator</i> , Editura Universitas, Petroșani, 2020, ISBN 978-973-741-714-5, (388 p.)	=388/(2*4)	48,5		
			2. Brinas Ildiko, Radu Sorin Mihai, Popescu Florin Dumitru, Andras Andrei , <i>Modelarea și simularea procesului de dislocare utilizând excavatoare cu rotor</i> , Editura Universitas, Petroșani, 2020, ISBN 978-973-741-686-5, (205 p.)	=205/(2*4)	25,63		
			3. Radu Sorin Mihai, Popescu Florin Dumitru, Andras Andrei , Kertesz Ildiko, <i>Transport si instalatii miniere</i> , Editura Universitas, Petroșani, 2018, ISBN 978-973-741-587-5, (281 p.)	=281/(2*4)	35,12		
			4. Andras Andrei , <i>Ingineria proiectării echipamentelor pentru industria extractivă</i> , Editura Universitas, Petroșani, 2014, ISBN 978-973-741-300-0 (176 p.)	=176/(2*1)	88		
		1.1.2. Carti/capitole de carti ca editor/coordonator	1.1.2.2. Naționale		<u>nr.pag/</u> <u>(3*nr. autori)</u>		
			1. Universitatea din Petroșani – <i>MONOGRAFIE, 1948 – 2018</i> , Editura Universitas, Petoșani, 2018, ISBN 978-973-741-580-6 (717 p.)	=717/(3*9)	26,55		
		1.2 Suport didactic	1.2.1 Manuale, suport de curs; pentru Profesor / CSI: Minim 2 din care 1 ca prim autor;	1.2.1 Manuale, suport de curs		<u>nr. pagini/</u> <u>(6*nr. autori)</u>	
				1. Popescu Florin Dumitru, Radu Sorin Mihai, Andraş Andrei , Brinas Ildiko, <i>Infografică, modelare și simulare asistată de calculator</i> , varianta electronică interactivă, Editura Universitas, Petroșani, 2020, ISBN 978-973-741-715-2, (565 p.)	=565/(6*4)	23,54	
2. Brinas Ildiko, Radu Sorin Mihai, Popescu Florin Dumitru, Andras Andrei , <i>Modelarea si simularea procesului de dislocare utilizand excavatoare cu rotor – varianta electronică</i> , Editura Universitas, Petroșani, 2020, ISBN 978-973-741-693-3, (283 p.)	=283/(6*4)			11,79			
3. Dinescu Stela, Andras Andrei , <i>Analiza accidentelor de circulatie - accidentologie</i> , Editura Universitas, Petrosani, 2019, ISBN 978-973-741-627-8, (212 p.)	=212/(6*2)			17,66			
4. Radu Sorin Mihai, Popescu Florin Dumitru, Andras Andrei , Kertesz Ildiko, <i>Transport si instalatii miniere – varianta electronică, aplicații interactive</i> , Editura Universitas, Petroșani, 2018, ISBN 978-973-741-588-2, (442 p.)	=442/(6*4)			18,41			
5. Andras Andrei , <i>Instalații de ridicat și transportat</i> , Editura Universitas Petroșani, 2014 - ISBN 978-973-741-302-4 (165 p.)	=165/(6*1)			27,5			
6. Andras Andrei , <i>Modelare și simulare în transporturi</i> , curs, format digital realizat in Lectora, 2013. (219 p.)	219/(6*1)			36,5			

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		1.2.2. Indrumare de laborator/aplicatii; pentru Profesor / CSI: Minim 2 din care 1 ca prim autor;	Indrumare de laborator/aplicatii	nr. pagini/ (6*nr. autori)		
			1. Andras Andrei , <i>Instalații de transportat pe cablu. Construcție și calcul</i> Editura Universitas Petroșani, 2014-ISBN 978-973-741-303-1 (126 p.)	126/(6*1)	21	
			2. Andras Andrei , <i>Teoria sistemelor de transport. Exemple de calcul</i> , Editura Universitas Petroșani, 2012-ISBN 978-973-741-301-7 (218 p.)	=220/(6*1)	36,66	
		1.3. Coordonare de programe de studii, organizare și coordonare programe de formare continuă și proiecte educaționale	Coordonare de programe de studii 15 (Punctaj unic pentru fiecare activitate)			
			Sisteme de transport pentru turism, industrie și servicii (MASTER)		15	
PUNCTAJ TOTAL PE ACTIVITATEA A1 REALIZAT						516,86
PUNCTAJ TOTAL PE ACTIVITATEA A1 MINIM IMPUS						120
0	1	2	3	4	5	6
2 1 2, 5 +	Activitatea de cercetare A2	2.1 Articole in reviste cotate ISI Thomson Reuters si in volume indexate ISI proceedings	Minim 10 articole Pentru Profesor/ CS I	2.1 Articole in reviste cotate ISI Thomson Reuters si in volume indexate ISI proceedings	(25+20* factor impact)/nr. de autori	
				1. Popescu, F.D.; ANDRAȘ, A. ; Radu, S.M.; Brinas, I.; Iladie, C.-M. <i>Numerical Investigation of Slope Stability of the Waste Dumps from Romanian Lignite Open-pit Mines using the Shear Strength Reduction Method</i> . APPLIED SCIENCES 2024, 14(21), 9875, I.F.: 2.5, Q1 , https://doi.org/10.3390/app14219875 , WOS: publicată 29 October 2024 ÎN CURS DE INDEXARE	= $(25+20*2,5)/5$	15
				2. ANDRAȘ, A. ; Popescu, F.D.; Radu, S.M.; Păsculescu, D.; Brinas, I.; Radu, M.A.; Peagu, D. <i>Numerical Simulation and Modeling of Mechano–Electro–Thermal Behavior of Electrical Contact Using COMSOL Multiphysics</i> . APPLIED SCIENCES 2024, 14, 10, 4026, I.F.: 2.5, Q1 , DOI: 10.3390/app14104026, WOS: 001234406500001 . https://www.webofscience.com/wos/woscc/full-record/WOS:001234406500001	= $(25+20*2,5)/7$	10,71
				3. Popescu, F.D.; Radu, S.M.; ANDRAȘ, A. ; Brinas, I.; Marita, M.O.; Radu, M.A.; Brinas, C.L. <i>Stability Assessment of the Dam of a Tailings Pond Using Computer Modeling-Case Study: Coroiesti, Romania</i> . APPLIED SCIENCES 2024, 14, 1, 268, I.F.: 2.5, Q1 , DOI: 10.3390/app14010268, WOS: 001139312400001 . https://www.webofscience.com/wos/woscc/full-record/WOS:001139312400001	= $(25+20*2,5)/7$	10,71
				4. Popescu, F.D.; Danciu, C.-G; Andras, A. ; Brinas, I.; Radu, S.M; Neaga, M.A. <i>DETERMINATION OF LIGNITE SHEAR STRENGTH ALONG AN IMPOSED PLANE BY SIMULATION AND MODELLING USING FDEM</i> . Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, Volume: 66, Issue: 4, Pages: 457-464, Published: NOV 2023, ISSN: 1221-5872. I.F. 0,1, Q4, WOS:001236162800003 . https://1d10qrh6p-y-https-www-webofscience-com.z-e-nformation.ro/wos/woscc/full-record/WOS:001236162800003	= $(25+20*0,1)/4$	4,5

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			5. Alexandru, T.G.; Alexandru, A.; Popescu, F.D.; Andraş, A. <i>The Development of an Energy Efficient Temperature Controller for Residential Use and Its Generalization Based on LSTM.</i> SENSORS 2023, 23, 1, 453, I.F. 3.847, Q2, DOI: 10.3390/s23010453, WOS:000909162300001. https://1d10q2xej-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000909162300001	=(25+20*3, 847)/4	25,49
			6. Radu, S.M.; Popescu, F.D.; Andras, A.; Virag, Z.; Brinas, I.; Draica, M.-I.; <i>A Thermo-Mechanical Stress Based Fatigue Life Evaluation of a Mine Hoist Drum Brake System Using COMSOL Multiphysics.</i> MATERIALS 2022, 15, 19, 6558, I.F.: 3.748, Q1, DOI: 10.3390/ma15196558, WOS:000867025600001. https://www.webofscience.com/wos/woscc/full-record/WOS:000867025600001	=(25+20*3, 748)/6	16,66
			7. Brînaş, I.; Andraş, A.; Radu, S.M.; Popescu, F.D.; Tomuş, O.B.; Maniţiu, D. <i>INVESTIGATION OF CABIN VIBRATION EXPOSURE IN A BUCKET-WHEEL EXCAVATOR (BWE) DURING PERMANENT EXCAVATION REGIME WITH COMPUTER SIMULATION.</i> Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, Volume: 65, Issue: 2, Pages: 205-210, Published: JUN 2022, ISSN: 1221-5872. WOS:000838236300010. https://1d10q2xej-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000838236300010	=25/6	4,17
			8. Popescu, F.D.; Radu, S.M.; Andras, A.; Brinas, I.; Budilica, D.I.; Popescu V.; <i>Comparative Analysis of Mine Shaft Hoisting Systems' Brake Temperature Using Finite Element Analysis (FEA),</i> MATERIALS 2022, 15, 9, 3363, I.F.: 3.748, Q1, DOI: 10.3390/ma15093363. WOS:000800732600001. https://www.webofscience.com/wos/woscc/full-record/WOS:000800732600001	=(25+20*3, 748)/6	16,66
			9. Andraş, A.; Radu, S.M.; Brînaş, I.; Popescu, F.D.; Budilică, D.I.; Korozsi, E.B. <i>Prediction of Material Failure Time for a Bucket Wheel Excavator Boom Using Computer Simulation.</i> Materials 2021, 14, 7897. I.F. 3.623 Q1 DOI: 10.3390/ma14247897. WOS:000738459300001 https://www.webofscience.com/wos/woscc/full-record/WOS:000738459300001?SID=C1IS3QLxFLomRxWzhVR	=(25+20*3, 623)/6	16,24
			10. Brînaş, I., Andraş, A., Radu, S.M., Popescu, F.D., Andraş, I., Marc, B.I., Cioclu, A.R. <i>Determination of the Bucket Wheel Drive Power by Computer Modeling Based on Specific Energy Consumption and Cutting Geometry.</i> Energies, 2021, 14(3), 3892. I.F. 3,004 Q3. DOI:10.3390/en14133892. WOS:000671317100001 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000671317100001	=(25+20* 3,004)/7	12,15
			11. Andraş, A., Brînaş, I., Radu, S.M., Popescu, F.D., Popescu, V., Budilica, D.I. <i>INVESTIGATION OF THE THERMAL BEHAVIOUR FOR THE DISC-PAD ASSEMBLY OF A MINE HOIST BRAKE USING COMSOL MULTIPHYSICS.</i> Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, Volume: 64, Issue: 2, Pages: 227-234, Published: JUN 2021, ISSN: 1221-5872. WOS: 000684576900004. https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000684576900004	=25/6	4,17

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			12. Radu, S.M., Popescu, F.D., Andraș, A., Andraș, I., Brînaș, I., Valceanu, F. <i>NUMERICAL ANALYSIS OF FATIGUE FOR THE ASSESSMENT OF REMAINING SERVICE LIFE OF THE ERC 1400-30/7 BUCKET WHEEL EXCAVATOR</i>. Proceedings Of The Romanian Academy Series A-Mathematics Physics Technical Sciences Information Science, 2021, 22 (2), 143-152. I.F. 1,523 Q3. WOS: 000667515100005. https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000667515100005	=(25+20*1,523)/6	9,24
			13. Popescu, F. D., Radu, S. M., Andraș, A., Brînaș, I. <i>Numerical Modeling of Mine Hoist Disc Brake Temperature for Safer Operation</i>. Sustainability, 2021, 13(5), 2874. I.F. 3,251 Q2. WOS:000628676400001. https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000628676400001	=(25+20x3,251)/4	22,51
			14. Popescu, F.D., Radu, S.M., Andraș, A., Brînaș, I., Marita, M.O., Rebedea, N.I., <i>The modal analysis, using simulation and modelling, of the boom of the ERC-1400 bucket-wheel excavator during operation</i>. Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, Volume: 63, Issue: 4, Pages: 353-362, Published: NOV 2020, ISSN: 1221-5872. WOS: 000606612500002. https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000606612500002	=25/6	4,17
			15. Kotwica, K., Suffner, H., Andras, A. <i>Trenchless Execution of Microtunnels for Municipal Infrastructure in Urbanized Site – Conception of a New Solution</i>. Management Systems in Production Engineering, 2020, 28(4), 276-282. WOS:000562281600009. https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000562281600009	=25/3	8,33
			16. Peter, E., Andras, A. <i>The Representational Space of the Jiu Valley: Space Perceived Through Direct Experience</i>. Postmodern Openings, 2020, 11(3), 129-144. WOS:000577502200007. DOI: 10.18662/po/11.3/203. https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000577502200007	=25/2	12,5
			17. Popescu, F.D.; Andraș, A.; Kertesz (Brînaș), I., <i>Determination of the Operating Power of the Rotor of the ERc-1400 Type Bucket Wheel Excavator Using Numerical Methods</i>. Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, Volume: 63, Issue: 2, Pages: 137-142, Published: JUN 2020, ISSN: 1221-5872. WOS:000550992100004. https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000550992100004	=25/3	8,33
			18. Popescu, F.D.; Radu, S.M.; Kotwica, K.; Andraș, A.; Kertesz (Brînaș), I. <i>Simulation of the Time Response of the ERc 1400-30/7 Bucket Wheel Excavator's Boom during the Excavation Process</i>. Sustainability. 2019, 11 (16), 4357. I.F. 2,592 Q2. DOI:10.3390/su11164357 WOS:000484472500101 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000484472500101	=(25+20*2,592)/5	15,37

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			19. Radu, SM; Popescu, FD; Andras, A; Brinas, IK; Tomus, OB , <i>Increasing the quality of the well drilling process by finite element analysis of the drilling fluid flow parameters</i>, QUALITY-ACCESS TO SUCCESS, Vol. 20, pp. 359-364, 2019, ISSN: 1582-2559. WOS:000459686300063 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000459686300063	=25/5	5
			20. Tomuş, O.B.; Andraş, A.; Jula, D.; Dinescu, S., <i>Aspects relating to the reliability calculation of the cutting-teeth mounted on the bucket wheel excavators used in lignite mining</i>. MATEC Web Conf., 290 (2019) 01020. WOS:000569367700020. DOI: 10.1051/mateconf/201929001020. https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000569367700020	=25/4	6,25
			21. Popescu, F.D.; Radu, S.M.; Andraş, A.; Kertesz (Brînaş), I., <i>A grafo-numeric method of determination of the operation power of the rotor of EsRc-1400 bucket wheel excavator using computer simulation in SolidWorks</i>. MATEC Web Conf., 290 (2019) 04007. WOS:000569367700057. DOI: 10.1051/MATECCONF/201929004007. https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000569367700057	=25/4	6,25
			22. Tomuş, O.B., Andraş, A., Magyari, M., <i>Study on the reliability of the underground conveyor belt system installed at Vulcan Mine, the Jiu Valley Basin in Romania</i>, The 8th International Conference on Manufacturing Science and Education MSE, 7 – 9 June 2017, MATEC Web Conf. Volume 121, 2017, Sibiu, Romania, ISSN 2559-2963, ISSN-L 2559-2963, pp. 115-122. WOS:000435283800117. DOI: 10.1051/mateconf/201712110005 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000435283800117	=25/3	8,33
			23. Irimie S.I., Radu S.M., Petrilean D.C., Andraş A., <i>Reducing the environmental impact of a gas operated cogeneration installation</i>, The 8th International Conference on Manufacturing Science and Education MSE, 7 – 9 June 2017, MATEC Web Conf. Volume 121, 2017, Sibiu, Romania, ISSN 2559-2963, ISSN-L 2559-2963, pp. 876-884. WOS:000435283800117 DOI: 10.1051/mateconf/201712101016 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000435283800117	=25/4	6,25
			24. Stela Dinescu, Andrei Andras <i>Analysis of Winning Performance of Shearer Loader Cutter Head using Modeling</i>, Proceedings of the 2nd WSEAS International Conference on ENGINEERING MECHANICS, STRUCTURES and ENGINEERING GEOLOGY (EMESEG '09), Rodos, Greece, July 22-24, 2009, ISSN: 1790-2769, Pages: 145-148. WOS:000276584000021 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000276584000021	25/2	12,5

2.2. Articole in reviste si volumele unor manifestări științifice indexate în alte baze de date internaționale*	Minim 20 articole pentru Profesor	2.2. Articole in reviste si volumele unor manifestări științifice indexate în alte baze de date internaționale	25/nr. de autori	
		1. S Kahraman, M Ozbek, M Rostami, M Fener, A Andras , FD Popescu. <i>Investigating the changes in the strength of carbonate rocks exposed to microwave energy</i> . Arabian Journal of Geosciences 17 (9), 1-17. doi.org/10.1007/s12517-024-12058-4. https://link.springer.com/article/10.1007/s12517-024-12058-4	=25/6	4,17
		2. ANDREI ANDRAȘ , F.D. Popescu, I.C. Măceșaru (Lăpăduși), I. Brînaș, <i>The Study of the Kinematics of the Lifting-Lowering Mechanism of the SMA-2 Powered Roof Support Using Computer Software</i> , Annals of the University of Petroșani, Mechanical Engineering, 25 (2023), pp.17-32, [Ebsco, Google Scholar, Copernicus, DOAJ] https://www.upet.ro/annals/mechanical/pdf/2023/02_Andras.pdf	=25/4	6,25
		3. D. Peagu (Furdui), F.D. Popescu, ANDREI ANDRAȘ , <i>Mechanical Stress Simulation of the Explosion-Proof Encapsulation with Cylindrical Frame</i> , Annals of the University of Petroșani, Mechanical Engineering, 25 (2023), pp. 161-68, [Ebsco, Google Scholar, Copernicus, DOAJ] https://www.upet.ro/annals/mechanical/pdf/2023/15_Peagu.pdf	=25/3	8,33
		4. F.D. Popescu, ANDREI ANDRAȘ , M.-I. Draica, I. Brînaș, B.I. Marc, <i>Computer Modeling of the CA-1 Longwall Shearer Helical Vane Drum with Variable Axial-Radial Pitch</i> , Annals of the University of Petroșani, Mechanical Engineering, 25 (2023), pp. 183-92, [Ebsco, Google Scholar, Copernicus, DOAJ] https://www.upet.ro/annals/mechanical/pdf/2023/18_Popescu.pdf	=25/5	5
		5. Măceșaru (Lăpăduși), I.C., Popescu, F.D., Andraș, A. <i>Stress-Strain Study Of A Powered Roof Support Section Using Numeric Simulation</i> . Annals of the University of Petrosani Mechanical Engineering, 2022, Vol. 24, pp. 89-100. [Ebsco, Google Scholar, Copernicus, DOAJ] https://www.upet.ro/annals/mechanical/pdf/2022/10_Macesanu%20Formatata%20RO.pdf	=25/3	8,33
		6. Popescu, F. D., Andraș, A. , Brînaș, I. <i>Determination Using FEA Of The Static Stress Of A Mine Hoist Drum After Safety Braking</i> . Annals of the University of Petrosani Mechanical Engineering, 2022, Vol. 24, pp. 125-140. [Ebsco, Google Scholar, Copernicus, DOAJ] https://www.upet.ro/annals/mechanical/pdf/2022/13_Popescu_Andras_Brinas_2.pdf	=25/3	8,33
		7. Andras, A. , Popescu, F. D., Brînaș, I. <i>Computerised Analysis Of The Air Resistance For A Forward Moving Vehicle</i> . Annals of the University of Petrosani Mechanical Engineering, 2022, Vol. 24, pp. 1-12. [Ebsco, Google Scholar, Copernicus, DOAJ] https://www.upet.ro/annals/mechanical/pdf/2022/01_Andras_Popescu_Brinas.pdf	=25/3	8,33
		8. András, E. <i>A bányagépek szerkezeti elemeinek és azok működési folyamatainak modellezése és szimulációja</i> . Műszaki Tudományos Közlemények, 16, pp. 5-9. (2022) ISSN 2393-1280. https://doi.org/10.33895/mtk-2022.16.02	=25	25
		9. Andraș A , Popescu F. <i>Romanian Carbonate Rocks Cuttability Assessment Using Linear Cutting Tester</i> . Mining Revue. 27(4), pp. 50-56. (2022) [sciendo, ebsco, google scholar] https://doi.org/10.2478/minrv-2021-0034	=25/2	12,5
		10. Popescu, F.D., Andraș, A. , Danciu, C., Brînaș, I., <i>Uniaxial Compressive Strength (UCS) simulations of Romanian carbonate rocks using the Finite-Discrete Element Method (FDEM)</i> , XI International Conference "Mining Techniques" TUR 2022 Krynica Zdrój, 20 ÷ 23	=25/4	6,25

13

			September 2022. https://scholar.google.com/citations?view_op=view_citation&hl=en&user=HRiETAEEAAAAJ&sortby=pubdate&citation_for_view=HRiETAEEAAAAJ:dshw04ExmUIC		
			11. Andraş, A. ; Andraş, I.; Danciu, C. <i>Rock excavation efficiency improvement by microwave treatment</i> . Multidiszciplináris Tudományok, 11(5), pp. 438-449. (2021) [Google scholar] https://ojs.uni-miskolc.hu/index.php/multi/article/view/895	=25/3	8,33
			12. András, E. , András, E., Kovács, J. A kőzetjövésztés hatékonyságának növelése mikrohullámú kezeléssel. XXII Nemzetközi Bányászati, Kohászati és Földtani Konferencia, 2021, 19-24. https://ojs.emt.ro/index.php/bkf/article/view/526 [Google Scholar]	=25/3	8.33
			13. Popescu, F.D., Andraş, A. <i>Research regarding the cuttability of sandstone hard inclusions in the conditions of Romanian lignite open pit mines</i> . Annals of the University of Petrosani Mechanical Engineering. 2020, Vol. 22, p39-42. 4p. [Ebsco, Google Scholar] https://www.upet.ro/annals/mechanical/pdf/2020/05_Popescu_Andras.pdf	=25/2	12.5
			14. András, J., Kovács, J., András, E. , Kertész, I. and Tomuş, O.B., 2020. <i>Remaining Lifetime Assessment of Bucket Wheel Excavator's Boom Structure by Using Non-destructive Method</i> . Acta Materialia Transylvanica, 3(1), pp.10-14. https://doi.org/10.33924/amt-2020-01-02 https://content.25+.com/view/journals/amt/3/1/article-p10.xml [sciendo, Google Scholar]	=25/5	5.00
			15. András, J., Kovács, J., András, E. , Kertész, I. and Tomuş, O.B., 2020. <i>A marótárcsás kotrógépek gémszerkezete maradék élettartamának meghatározása roncsolásmentes módszerrel</i> . EME Kiadvány. https://doi.org/10.33923/amt-2020-01-02 https://eda.emc.ro/bitstream/handle/10598/31878/Acta2020-1-HU-02-Andras.pdf?sequence=1&isAllowed=y [Dspace]	=25/5	5.00
			16. Popescu, F.D., Andraş, A. , Kertész (Brînaş), I., <i>Determination of the capacity of a continuous transport system using spline type interpolation</i> , Annals of the University of Petrosani Mechanical Engineering. Vol. 21 (2019). ISSN 1454-9166 https://www.upet.ro/annals/mechanical/pdf/2019	=25/3	8.33
			17. Andraş, A. , Kertész (Brînaş), I., Popescu, F.D., <i>Comparative study of the projecting distance of pedestrians in frontal collisions with vehicles using computer simulation.</i> , Annals of the University of Petrosani Mechanical Engineering. Vol. 21 (2019). ISSN 1454-9166 https://www.upet.ro/annals/mechanical/pdf/2019	=25/3	8.33
			18. FD Popescu, SM Radu, A Andraş , IK Brînaş. (2019) <i>Simulation of the frequency response of the ERC 1400 Bucket Wheel Excavator boom, during the excavation process</i> , New Trends in Production Engineering 2 (1), 153-167. ISSN: 2545-2843 [Sciendo, Google Scholar]. DOI 10.2478/ntpe-2019-0016 https://content.sciendo.com/configurable/contentpage/journals\$002fntpe\$002f2\$002f1\$002farticle-p153.xml	=25/4	6.25
			19. FD Popescu, SM Radu, K Kotwica, A Andraş , IK Brînaş, S Dinescu. (2019) <i>Vibration analysis of a bucket wheel excavator boom using Rayleigh's damping model</i> , New Trends in Production Engineering 2 (1), 233-241. ISSN: 2545-2843 [Sciendo, Google Scholar.] DOI 10.2478/ntpe-2019-0024 https://content.sciendo.com/view/journals/ntpe/2/1/article-p233.xml	=25/6	4.17

12

			20. FD Popescu, A Andraş , I Kertész. (2019) <i>Balance survey/analysis of vertical transport installations using the Nyquist stability criterion</i> , ITM Web of Conferences 29, 01013 (2019). eISSN: 2271-2097 [Google Scholar, Crossref] https://doi.org/10.1051/itmconf/20192901013 https://search.crossref.org/?q=10.1051%2Fitmconf%2F20192901013	=25/3	8.33
			21. Kovács J., András J., András E. , Popescu F.D., Kertész I. <i>A marótárcsás kotrógépek nehezen jöveszthető közetben való üzemeltetésére vonatkozó kutatások áttekintése</i> , 52. Bányagépészeti és bányavillamossági konferencia, Balatongyörök, 2019. szeptember 26 – szeptember http://banyagepeszalapitvany.hu/home/p_index.php?module=konferenciak&type=2019&page=book	=25/5	5.00
			22. András, J., Kovács, J., András, E. , Kertész, I., Tomus, O. B. (2019). <i>A New Method for the Calculation of Energy and Power Requirements of Bucket Wheel Excavators</i> . <i>Műszaki Tudományos Közlemények (Papers On Technical Science)</i> , 10(1), 15-20. https://content.sciendo.com/view/journals/mtk/10/1/article-p15.xml	=25/5	5.00
			23. Tomuş, O. B., Andraş, A. , Jula, D., Dinescu, S. (2019). <i>Aspects relating to the reliability calculation of the cutting-teeth mounted on the bucket wheel excavators used in lignite mining</i> . In MATEC Web of Conferences (Vol. 290). EDP Sciences. https://search.proquest.com/openview/12658536f78b7a5004a84d402908c79c/1?pq-origsite=gscholar&cbl=2040549	=25/4	6.25
			24. Popescu, F. D., Radu, S. M., Andraş, A. , & Kertész, I. (2019). <i>A grafo-numeric method of determination of the operation power of the rotor of EsRc-1400 bucket wheel excavator using computer simulation in SolidWorks</i> . In MATEC Web of Conferences (Vol. 290). EDP Sciences. https://search.proquest.com/openview/f80d4b8357dd4911db5c7046c77d0712/1?pq-origsite=gscholar&cbl=2040549	=25/4	6.25
			25. András, J., Kovács, J., András, E. , Kertész, I., Tomus, O. B. (2019). <i>Új módszer a marótárcsás kotrógépek jövesztésienergia-és teljesítményigényeinek kiszámítására</i> . https://eda.eme.ro/handle/10598/31156	=25/5	5.00
			26. Florin Dumitru Popescu, Sorin Mihai Radu, Andrei Andraş , <i>Study of functional performance improvements for cutting teeth mounted on bucket wheel excavators operating in Oltenia coal basin – Romania</i> , Mining – Informatics, Automation and Electrical Engineering, Nr 3 (355) 2018, pp. 7, 16, © Wydawnictwa AGH, Kraków 2018, ISSN 2449-6421 (online) ISSN 2450-7326 (printed) https://journals.indexcopernicus.com/search/details?id=44891 (Copernicus)	=25/3	8.33
			27. S. M. Radu, F. D. Popescu, Andrei Andras , I. Kertesz Brinas, O. B. Tomus, <i>Simulation and modelling of the forces acting on the rotor shaft of bwes, in order to improve the quality of the cutting process</i> , Annals of the University of Petroşani, Mechanical Engineering, Vol. 20 (2018), (XLVII), 2018, ISSN 1454-9166 https://www.upet.ro/annals/mechanical/	=25/5	5.00
			28. Iosif Dumitrescu, Andrei Andras , Ildiko Brinas, <i>Modelling cutting-loading systems of bucket wheel excavators used in Oltenia lignite openpits</i> , Final Conference of BEWEXMIN project No. RFCR-CT-2015-00003, 12th-13th of June 2018 Wrocław, Poland http://poltegor.igo.wroc.pl/bewexmin/#conference-calendar	=25/3	8.33
			29. Florin Dumitru Popescu, Sorin Mihai Radu, Andrei Andras , <i>Ulepszenia w zakresie wydajności</i>	=25/3	8.33

12

			<i>funkcjonalnej zębów tnących zamocowanych na koparkach wielonaczyniowych w zagłębiu węgla Oltenia w Rumunii, MARG (MECHANIZACJA, AUTOMATYZACJA I ROBOTYZACJA W GÓRNICTWIE) V International Conference, 13-15 June 2018, Wisla, Poland.</i> https://www.cbidgp.pl/cbidgp_pl/files/files/Program_MARG%202018.pdf		
			30. Andras I, Kovacs J, Andras E, Radu S.M., Popescu F.D., Tomus O.B., <i>Uj eredmenyek a marotarcas kotrogepek alkalmazasarol a nehezen jovesztheto beagyzodasok eseteben</i>, Banyagepeszeti es banyavillamossagi konferencia, Balatongyorok 2018, pp.41, 47 http://banyagepeszalapitvany.hu/datas/konferenciak/2018/kiadvanypdf/kiadvany.pdf	=25/6	4.17
			31. Kovacs J, Andras I, Andras E, Radu S.M., Popescu F.D., Kertesz (Brinas) Ildiko, <i>A marotarcas kotrogepek teljesitmenyenek meghatarozasa grafikus-numerikus modszerrel</i>, Banyagepeszeti es banyavillamossagi konferencia, Balatongyorok 2018, pp.53, 63 http://banyagepeszalapitvany.hu/datas/konferenciak/2018/kiadvanypdf/kiadvany.pdf	=25/6	4.17
			32. Florin-Dumitru Popescu, József Kovács, Sorin Mihai Radu, Andrei Andras, Ildikó Kertész (Brinas), <i>A Method Of Continuous Tilt Control Of The Bucket Wheel Excavators Using Inclinometers</i>, MultiScience - XXXII. microCAD International Multidisciplinary Scientific Conference, University of Miskolc, 5-6 September, 2018. ISBN 978-963-358-162-9, http://www.uni-miskolc.hu/~microcad/publikaciok/2018/c2/C2_Popescu%20Florin%20Dumitru.pdf	=25/5	5.00
			33. Ildikó Kertész (Brinas), Sorin-Mihai Radu, Florin-Dumitru Popescu, Iosif Andras, Andrei Andras, <i>A Numerical Method For The Calculus Of The Operation Power Of The Rotor Of A Bucket Wheel Excavator</i>, University of Miskolc, 5-6 September, 2018. ISBN 978-963-358-162-9 http://www.uni-miskolc.hu/~microcad/publikaciok/2018/d1/D1_Kertesz_Ildiko.pdf	=25/5	5.00
			34. András József, Kovács József, András Endre, Tomuş Ovidiu Bogdan, Nan Marin Silviu, <i>Kutatásaink eredményei a külszíni fejtésekben alkalmazott berendezések, tanulmányozása terén (Results of Research Related to The Study of Equipment Used in Open Pit Mines)</i>, XX Bányászati, Kohászati és Földtani Konferencia, Gyulafehérvár, 2018. április 5-8. https://emt.ro/sites/default/files/archivum/program/Program.pdf	=25/5	5.00
			35. Maria Lazar, Iosif Andras, Andrei Andras, Florin D. Popescu, Sorin-Mihai Radu, Mircea Risteiu, <i>Overview of the Results of Researches Related to Adaptation of Bucket Wheel Excavators Operating in Romanian Lignite Open Pits for Excavation in Rocks with Increased Cutting Resistance</i>, 14th International Symposium of Continuous Surface Mining, ISCSM2018, Thessaloniki 23-26 September 2018, http://www.iscsm.gr/wp-content/uploads/2018/10/iscsm2018_book_of_abstracts_final.pdf	=25/6	4.17
			36. Iosif Andras, Maria Lazar, Andrei Andras, Sorin-Mihai Radu, Florin Vilceanu and Stela Dinescu, <i>New Method of Residual Lifetime Assessment of Bucket Wheel Excavators Operating in Romanian Lignite Open Pits</i>, 14th International Symposium of Continuous Surface Mining, ISCSM2018, Thessaloniki 23-26 September 2018 http://www.iscsm.gr/wp-content/uploads/2018/10/iscsm2018_book_of_abstracts_final.pdf	=25/6	4.17

12

			37. M. Lazar, I. Andras, F. Faur, A. Andras , <i>Influence of physical, mechanical and technological characteristics of coal and overburden rocks on the excavation process</i> , International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM 17 (13), pp.445. DOI: 10.5593/sgem2017/13/S03.057 https://www.scopus.com/record/display.uri?eid=2-s2.0-85032512328&origin=inward&txGid=1a32bfc7c9114a29760f45b1e0ea039e	=25/3	8.33
			38. A. Andras , I. Andras, O.B. Tomuş, <i>Mathematical models of powered roof support interaction with surrounding rocks</i> , International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM 17 (13), pp.529. DOI: 10.5593/sgem2017/13/S03.067 https://www.scopus.com/record/display.uri?eid=2-s2.0-85032487107&origin=inward&txGid=008289372b6c76e66028ccb70d885684	=25/3	8.33
			39. O.B. Tomuş, I. Andras I, A. Andras , <i>Reliability analysis of the brake pads of the wheeled front end loading and transportation machinery used in mining</i> , International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM 17 (13), pp.607. DOI: 10.5593/sgem2017/13/S03.094 https://www.scopus.com/record/display.uri?eid=2-s2.0-85032473633&origin=inward&txGid=91315fb812c6e6943a835c8852b39737	=25/3	8.33
			40. A. Andras , F. Faur, M. Risteiu, <i>Overview Of The Unwanted Effects Of Unmineable Rock Formations On The Mining System Of Bucket Wheel Excavator During The Excavation Process</i> , International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM 17 (13), pp.637. DOI: 10.5593/sgem2017/13/S03.081 https://www.scopus.com/record/display.uri?eid=2-s2.0-85032496252&origin=inward&txGid=e888019a27b982ee52868070fbd5a786	=25/3	8.33
			41. I. Andras, A. Andras , O.B. Tomuş, <i>Optimization of geometric and strength parameters of teeth for bucket wheel excavator in view to increasing the cutting efficienc</i> , International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM 17 (13), pp.741. DOI: 10.5593/sgem2017/13/S03.077 https://www.scopus.com/record/display.uri?eid=2-s2.0-85032499187&origin=inward&txGid=44f114d6bc821fb620f8ae7bf170289a	=25/3	8.33
			42. O.B. Tomuş, A. Andras, I. Andras, <i>Study Of The Dependence Between The Cutting Direction Relative To Stratification And The Digging Characteristics Of Lignite In Oltenia Coal Basin (Romania)</i> , International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM 17 (13), pp. 825, DOI: 10.5593/sgem2017/13/S03.104 https://www.scopus.com/record/display.uri?eid=2-s2.0-85032514615&origin=inward&txGid=55e7fdb74da24a2f0e8fe1a09a109617	=25/3	8.33
			43. I. Andras, M. Lazar, A. Andras , <i>The correlation between physical-mechanical properties and the cutting characteristics in the case of unmineable rock formations from husnicioara lignite open pit</i> , International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM 17 (13), pp. 869. https://www.scopus.com/record/display.uri?eid=2-s2.0-85032467427&origin=inward&txGid=1d2788239a711712b0beb21e4544003d	=25/3	8.33

12

			44. F.D. Popescu, A. Andras, I. Kertesz, <i>The Method Of Minimizing The Calculated Power Of Vertical Transport Installations</i>, International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM 17 (13), pp. 901, https://www.scopus.com/record/display.uri?eid=2-s2.0-85032476824&origin=inward&txGid=2a5408834c56fa93dd5b59d99f8b75c5	=25/3	8.33
			45. Kertész (B.), I., Andraş, A., Popescu, F.D., <i>Improving The Functional Performances Of The Bucket Wheel Excavators (Bwes) Cutting-Teeth</i>, Annals of the University of Petroşani, Mechanical Engineering, 19 (2017), pp.71-80, https://web.b.ebscohost.com/abstract?direct=true&profile=ehost&scope=site&authtype=crawler&jrnl=14549166&AN=130634374&h=iH%2fM5SLK3sjUqR40x%2fJoYM4XnuO8fYIS7N2msHd%2bTMn%2bkD24HPD0GwuX4HeHXiZcXH2zgQhL4x33hm498dKVzg%3d%3d&crI=c&resultNs=AdminWebAuth&resultLocal=ErrCrINotAuth&crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d14549166%26AN%3d130634374	=25/3	8.33
			46. S.M. Radu, W. Chmielarz, A. Andras - <i>Mining Technological System's Performance Analysis</i>, Annals of the University of Craiova for Journalism, Communication and Management, Volume 2, 2016, ISSN 2501-3513. Indexata RePEc, Google Scholar www.aucjc.ro/wp-content/uploads/2016/10/aujcjm-vol-2-2016-56-64.pdf	=25/3	8.33
			47. Andraş, I., Andraş, A., Petrilean, D.C. - <i>Application of the theory of sonics in the design of percussive equipment for rock cutting</i>, Annals of the University of Petroşani, Mechanical Engineering, Vol. 18 (XLV), 2016, pag. 5-10, ISSN 1454-9166; (revistă categoria B+, cod CNCIS 26; Indexată în Ulrich's Periodicals Directory, EBSCO Publishing Inc., https://web.a.ebscohost.com/abstract?direct=true&profile=ehost&scope=site&authtype=crawler&jrnl=14549166&AN=130577918&h=KvPan4fploY4XaD7aYGrdwL8HlrVlfu%2fQDR0wLwXy40IQM78TqkmC9OzyfbFXTq5V326lJoSQbqBothPtwa23Q%3d%3d&crI=c&resultNs=AdminWebAuth&resultLocal=ErrCrINotAuth&crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d14549166%26AN%3d130577918 http://upet.ro/annals/mechanical)	=25/3	8.33
			48. Andraş, A., Andraş, I., Radu, S.M. - <i>Study regarding the bucket-wheel excavators used in hard rock excavations</i>, Annals of the University of Petroşani, Mechanical Engineering, Vol. 18 (XLV), 2016, pag. 11-22, ISSN 1454-9166; (revistă categoria B+, cod CNCIS 26; Indexată în Ulrich's Periodicals Directory, EBSCO Publishing Inc., Columbia University Libraries, SCIRIUS, Periodicals.ru, Suweco - http://upet.ro/annals/mechanical) https://web.a.ebscohost.com/abstract?direct=true&profile=ehost&scope=site&authtype=crawler&jrnl=14549166&AN=130577919&h=ZmRDpzmBtpcD8F83pT2KwB97qbao5SCQvRlr5xY0evXi5vPpSMUP1Q7q63IUMzoFd4k1MUC9fzTR7Q0BPuOD2Q%3d%3d&crI=c&resultNs=AdminWebAuth&resultLocal=ErrCrINotAuth&crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d14549166%26AN%3d130577919	=25/3	8.33
			49. Iosif Andras, Andrei Andras, Stela Dinescu, <i>On the Correlation of Cutting Resistance and Physical-mechanical Properties of Lignite and Overburden Rocks from Ottenia Coalfield</i>, The publications of the MultiScience - XXX. MicroCAD International Scientific Conference, 2016, http://www.uni-miskolc.hu/~microcad/publikaciok/2016/A_2_Iosif_Andras.pdf	=25/3	8.33

12

			50. Petrilean D.C., Doşa, I., Andraş, A., Preda., L. - <i>Pollutant Variation Estimation According to the Wind Speed and the Mass Flow of the Pollutant for Paroseni Thermal Power Station</i>, Annals of the University of Petroşani, Mechanical Engineering, Vol. 18 (XLV), 2016, pag. 127-132, ISSN 1454-9166; (revistă categoria B+, cod CNCIS 26; Indexată în Ulrich's Periodicals Directory, EBSCO Publishing Inc., Columbia University Libraries, SCIRIUS, Periodicals.ru, Suweco - http://upet.ro/annals/mechanical) https://web.a.ebscohost.com/abstract?direct=true&profile=ehost&scope=site&authtype=crawler&jrnl=14549166&AN=130577933&h=uvTxe4MNxI0pP1VQ8ehSqp3qHR05EtiZQcnIVQz4gtFUeSqZRgn0cO8hGFqPeirg93qCbyuG6v6rjS%2ffe%2fpD4w%3d%3d&crl=c&resultNs=AdminWebAuth&resultLocal=ErrCrlNotAuth&crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d14549166%26AN%3d130577933	=25/4	6.25
			51. József Kovács, Andrei Andras, <i>Reliability Analysis of the Belt Conveyors at Vulcan Mine Plant, Jiul Valley, Romania</i>, XXIX. microCAD International Scientific Conference, Miskolc, Hungary, Aprilie 9-10, 2015. ISBN: 978-963-358-018-9. Indexată Google Scholar. DOI: 10.26649/musci.2015.032 http://www.uni-miskolc.hu/~microcad/publikaciok/2015/C1_7_Kovacs_Jozsef.pdf https://www.semanticscholar.org/paper/Reliability-Analysis-of-the-Belt-Conveyors-at-Mine-Kov%3%A1cs-Andra%C8%99/2a0d74874540f345d45e2f5a8bf9293211e95e17	=25/2	12.50
			52. Andraş, A., Andraş, I. - <i>Applications of Artificial Intelligence and Mechatronics in Mining Equipment Development</i>. Annals of the University of Petroşani, Mechanical Engineering, 17 (2015), (XLIV), 2015, pag. 5-20, ISSN 1454-9166; (revistă categoria B+, cod CNCIS 26; Indexată în Ulrich's Periodicals Directory, EBSCO Publishing Inc., Columbia University Libraries, SCIRIUS, Periodicals.ru, Suweco - http://upet.ro/annals/mechanical) (Lucrare indexată Google Scholar.) https://web.b.ebscohost.com/abstract?direct=true&profile=ehost&scope=site&authtype=crawler&jrnl=14549166&AN=115210576&h=VT6yJKEjC3N8%2byNXTpozWjuvjUHXI6pyohyr7NKms%2fCqLt8vM556szPB4A6%2fr81CGW9QZD1SN4ZHY1SPRfs%2bRA%3d%3d&crl=c&resultNs=AdminWebAuth&resultLocal=ErrCrlNotAuth&crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d14549166%26AN%3d115210576	=25/2	12.50
			53. Teseleanu G., Radu S.M., Andras A., <i>Modeling and simulation of coal winning process</i>, Polish Journal of Management Studies, Volume 10, 2014, Czestochowa University of Technology, pp.189-194, ISSN 2081-7452; http://georgeteseleanu.ro/wp-content/uploads/2015/04/Polish-Journal-of-Management-Studies-vol.10.pdf;	=25/3	8.33
			54. Dinescu, S., Andraş, A., <i>Modelling and Simulation of the Complex Mining Production Systems for Coal Extraction</i>, RECENT ADVANCES in CIVIL and MINING ENGINEERING Proceedings of the 4th European Conference of Civil Engineering (ECCIE '13) Proceedings of the 1st European Conference of Mining Engineering (MINENG '13) , Antalya, Turkey ,October 8-10, 2013 ISSN: 2227-4588 , ISBN: 978-960-474-337-7 https://www.semanticscholar.org/paper/Modeling-And-Simulation-of-The-Complex-Mining-For-Andrei/5d36eb03690152c7ae055f3af21d680b2d9582ba	=25/2	12.50
			55. Kovacs, I., Nan, M.S., Andraş, I., Tomuş, O.B., Andraş, A. - <i>Comparative study of mechanical rock cutting</i>. Annals of the University of Petroşani, Mechanical Engineering, 14	=25/5	5.00

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				(2012), (XLI), 2012, pag. 82-87, ISSN 1454-9166; (revistă categoria B+ , cod CNCIS 26; Indexată în Ulrich's Periodicals Directory, EBSCO Publishing Inc., Columbia University Libraries, SCIRIUS, http://upet.ro/annals/mechanical) https://web.a.ebscohost.com/abstract?direct=true&profile=ehost&scope=site&authtype=crawler&jrnl=14549166&AN=86951726&h=P5Dec6%2fjLMv5Sqb1hEsKdv3tRaMpeH18XBDXnkJ0kTRYSYVNdqMEZxxRHoQ1pHCUHqe5apULIE2ispa2x%2bPrfw%3d%3d&crl=c&resultNs=AdminWebAuth&resultLocal=ErrCrlNotAuth&crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d14549166%26AN%3d86951726		
			56. Andras, I.; Kovacs, I.; Andras, A. ; Tomuş, B. <i>Computer Aided Simulation of Coal Extraction Process with Complex Technological Systems</i> The 10th International Conference Modern Technologies In Manufacturing MTeM 2011, Cluj-Napoca (Indexata Dspace - http://www.muri.utcluj.ro:8080/xmlui/handle/123456789/90 , Google Scholar)	=25/4	6.25	
			57. N. Ilias, I. Andras, A. Andras , S. Dinescu, <i>Reliability Assessment of Continuous Mining Technological Systems</i> , Сучасні технології в машинобудуванні, nr. 4/2010 (ISSN 2078-7499) (Indexată Google Scholar, Scientific and technical library Kharkiv Politechnical Institute, Periodicals.ru) http://library.kpi.kharkov.ua/files/JUR/sutech4_2010.pdf	=25/4	6.25	
			58. Dinescu, S., Andras, A. , <i>Modeling of Shearer Loader Cutter Head in Order to Improve Energy Consumption</i> , Annals Of The University Of Petrosani Mechanical Engineering, Vol. 11 (XXXVIII) 2009, pag. 67-72 ISSN: 1454-9166; (revistă categoria B+ , cod CNCIS 26; Indexată în Ulrich's Periodicals Directory, EBSCO Publishing Inc., Columbia University Libraries, SCIRIUS, http://upet.ro/annals/mechanical) https://www.upet.ro/annals/mechanical/pdf/2009/Annals-Mechanical-Engineering-2009-a9.pdf	=25/2	12.50	
			59. Andras, A. , Andras, I., <i>Longwall Support Effectiveness Assessment Using Artificial Intelligence Methods</i> , Annals Of The University Of Petrosani Mechanical Engineering, Vol. 11 (XXXVIII) 2009, pag. 11 -14; ISSN: 1454-9166 (revistă categoria B+ , cod CNCIS 26; Indexată în Ulrich's Periodicals Directory, EBSCO Publishing Inc., Columbia University Libraries, SCIRIUS, http://upet.ro/annals/mechanical) https://pdfs.semanticscholar.org/b813/54bd2c30d6505ad2b72ca8c9b229d1f16349.pdf?_ga=2.161545660.1875020766.1598276859-1688805225.1598276859	=25/2	12.50	
			60. Iosif Andras, Nicolae Ilias, Andrei Andras , Attila Kovacs, Victor Badarca, Florin Nicolae, <i>Quality Assurance By Design Of Mining Equipment</i> , Fiabilitate si Durabilitate - Fiability & Durability nr.2/2008 Editura “Academica Brâncuși”,) ISSN 2144-3669, ISSN-L 1844 -640X (Revistă categoria B+ , cod. CNCIS 80; Indexată în Copernicus, Ebsco, DOAJ, Ulrich, Scipio - http://www.utgjiu.ro/rev_mec/?page=curent&nr=2008-02)	=25/6	4.17	
			61. Iosif ANDRAS, Stela DINESCU, Andrei ANDRAS , <i>Comparative Analysis Of Different Methods Of Reliability Assessment For Continuous Mining Technological Systems</i> , North University Baia Mare Scientific Bulletin Series C, Volume XXII (2008) Fascicle Mechanics, Tribology, Machine Manufacturing Technology, pag. 7-12; ISSN: 1224-3264. (revistă categoria B+ , cod CNCIS 610; http://www.nordtech.ubm.ro/list.php) http://www.nordtech.ubm.ro/issues/2008/2008.01.02.pdf	=25/3	8.33	

12

			62. Tomuş O.B., Andraş A. <i>Analysis of rock cutting with bucket wheel excavators using the chip breakout pattern method</i> . North University Baia Mare Scientific Bulletin Series C, Volume XXII (2008) Fascicle Mechanics, Tribology, Machine Manufacturing Technology, pag. 463-466, ISSN 1224-3264; - http://www.nordtech.ubm.ro/list.php) https://search.proquest.com/openview/83e931de2941aef5805cbac8ce04cd8/1?pq-origsite=gscholar&cbl=51656	=25/2	12.50
			63. Dinescu, S., Andraş, A. , <i>Environmental Friendly Equipment and Technology for Underground Civil Excavations</i> , Annals Of The University Of Petrosani, Mechanical Engineering, Vol. 10 (XXXVII) 2008, pag. 47-52; ISSN: 1454-9166 (revistă categoria B+ , cod CNCIS 26; Indexată în Ulrich's Periodicals Directory, EBSCO Publishing Inc., Columbia University Libraries, http://upet.ro/annals/mechanical) https://www.semanticscholar.org/paper/ENVIRONMENTAL-FRIENDLY-EQUIPMENT-AND-TECHNOLOGY-FOR-Dinescu/8b823053ed438a86b7f5cd74f73f8e6cb7216cb6	=25/2	12.50
			64. Andraş, A. , Dinescu, S., <i>Open Pit Lignite Mining Process Reliability Assessment Using Bayesian Belief Networks</i> , Annals Of The University Of Petrosani, Mechanical Engineering, Vol. 10 (XXXVII) 2008, pag. 5-11; ISSN: 1454-9166 (revistă categoria B+ , cod CNCIS 26; Indexată în Ulrich's Periodicals Directory, EBSCO Publishing Inc., Columbia University Libraries, http://upet.ro/annals/mechanical) https://pdfs.semanticscholar.org/c092/d5faada86c6d3469a441e5415ea2995c321e.pdf?_ga=2.194631085.1875020766.1598276859-1688805225.1598276859	=25/2	12.50
			65. Dafinoiu M., Tomuş O.B., Dinescu S., Stănilă S.D., Andraş A. <i>Improved Shape of the Tooth for Bucket Wheel Excavator for the Condition of Romanian Open Pits</i> Volume XXI (2007), Fascicle Mechanics, Tribology, Machine Manufacturing Technology pag. 161-164, ISSN 1224-3264; (revistă categoria B+ , cod CNCIS 610; Indexată în Proquest, Ebsco, CSA - http://www.nordtech.ubm.ro/list.php)	=25/5	5.00
			66. Nicolae ILIAS, Iosif ANDRAS, Attila KOVACS, Andrei ANDRAS , Emanoil VENESCU, Livia ILIAS, <i>Constructive Design Principles Applied To Enhance Support Equipment Quality</i> , North University Baia Mare Scientific Bulletin Series C, Volume XX (2006) Fascicle Mechanics, Tribology, Machine Manufacturing Technology (revistă categoria B+ , cod CNCIS 610; Indexată în Proquest, Ebsco, CSA - http://www.nordtech.ubm.ro/list.php)	=25/6	4.17
			67. Andras A. , Andras I., <i>Tehnologia realitatii virtuale un instrument modern in proiectarea echipamentelor pentru industria extractiva (Virtual Reality Technology-an up to date Tool in The Design and Development of Mineral Resources Related Equipment)</i> Revista Minelor nr.11-12/2006 (revistă categoria B+ , cod CNCIS 293, ISSN-L 1220-2053/ISSN 2247-8590; BDI: EBSCO Publishing Inc. – SUA http://upet.ro/revistaminelor/) https://www.upet.ro/revistaminelor/arhiva/rm2006/2006_rezumat_11-12.html	=25/2	12.50
			68. Andras, A. , <i>Electromechanics vs. Mechatronics –points of view</i> , Conferința internațională „Tinerii și Cercetarea Multidisciplinară”, Reșița, 2005, publ. Analele Universitatii Eftimie Murgu Resita Fascicola De Inginerie, XII, nr. 1, 2005, ISSN 1453-7394 (revistă categoria B+ ,	=25/1	25.00

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				cod CNC SIS 330; Indexată în Ebsco, DOAJ, RePec. Proquest, Copernicus etc - http://www.anale-ing.uem.ro)		
				69. Teseleanu G., Ilias, N., Andras, I., Radu, S., Andras, A. , <i>Modeling and simulation of coal winning process</i> , 5th International Scientific Conference of Modern Management of Mine Producing, Geology and Environmental Protection, SGEM 2005; Albena; Bulgaria; 13 June 2005 through 17 June 2005; Code 101473 / ISBN: 954-918181-2, June 13-17, 2005, 105-111pp (Indexată Scopus, Mendeley, CiteULike, Google Scholar) http://www.citeulike.org/group/18367/article/13484753	=25/5	5.00
				70. Marin Silviu NAN, Iosif KOVACS, Sorin MIHAILESCU, Andrei ANDRAS , <i>Laboratory Research About The Forces For The Sterile Rocks Cutting Performed At Rosiuta Open Pit</i> , North University Baia Mare Scientific Bulletin Series C, Volume XX Year: 2005, Volume: XIX, Part: 1 , Fascicle Mechanics, Tribology, Machine Manufacturing Technology (revistă categoria B+ , cod CNC SIS 610 ; Indexată în Proquest, Ebsco, CSA - http://www.nordtech.ubm.ro/list.php)	=25/4	6.25
				71. Nicolae ILIAS, Alin SIMOTA, Mihael MELCZER, Andrei ANDRAS , <i>Mathematical Modeling Of The Powered Roof Support/Surrounding Rock Interaction</i> , North University Baia Mare Scientific Bulletin Series C, Volume XX Year: 2005, Volume: XIX, Part: 1, Fascicle Mechanics, Tribology, Machine Manufacturing Technology (revistă categoria B+ , cod CNC SIS 610 ; Indexată în Proquest, Ebsco, CSA - http://www.nordtech.ubm.ro/list.php)	=25/4	6.25
				72. Popescu FI., Andras, A. , Dafinoiu, M., Deaconu, I. , <i>Method for processing the experimental data regarding the mechanical rocks cutting</i> Annals of the University of Petrosani, Mechanical Engineering, 6 (2004) (revistă categoria B+ , cod CNC SIS 26 ; Indexată în Ulrich's Periodicals Directory, EBSCO Publishing Inc., Columbia University Libraries, SCIRIUS, Periodicals.ru, Suweco - http://upet.ro/annals/mechanical)	=25/4	6.25
	2.4. Granturi/proiecte câștigate prin competiție	2.4.1. Director/responsabil - minim 2 pentru profesor / CSI	2.4.1.1. Internaționale	30*ani de desfășurare		
			1. Director proiect - <i>MIWACUT, Investigating The Microwave Assisted Cutting Of Carbonate Rocks. (Studiul taierii asistate cu microunde a rocilor carbonatice).</i> Finanțat de UEFISCDI, P3 - Cooperare Europeană și Internațională, Subprogram 3.2, Orizont 2020. Durata 36 luni (octombrie 2019 – septembrie 2022). Valoare partener Upet: 53.200 Euro (252.168 lei). Depus în cadrul ERA-NET Cofund on Raw Materials (ERA-MIN 2) https://www.era-min.eu/sites/default/files/docs/era-min_joint_call_2018_-_list_of_funded_projects_table.pdf .	=30*3	90	
			2.4.1.2. Naționale	15*ani de desfășurare		
			1. Manager de proiect - <i>Cresterea capacitatii de cercetare a Universitatii Petrosani prin investitii in infrastructuri de tip Cloud si Big Data</i> , Apel: POC/398/1/1. Durată: 12 luni (Septembrie 2021 – August 2022). Valoare: 4.978.907,77 lei	=15*2	30	

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			2. Responsabil contract - Contract de cercetare științifică Nr.78/11366 din 04.04.2018, , “Plan de mobilitate urbană a Orașului Petrila”, Câștigat prin SEAP, (Valoare încasată august 2018 15.589 lei)	=15*0,25	3,75
		2.4.2 Membru in echipă	2.4.2.1. Internaționale	10*ani de desfășurare	
			1. Membru în echipă - RFCR-CT - 2015-00003 – Horizon 2020 – RFCS 2015-2018 - <i>Bucket wheel excavators operating under difficult mining conditions including unmineable inclusions and geological structures with excessive mining resistance (BEWEXMIN)</i> , Valoare totală: 473158 Euro https://ec.europa.eu/research/industrial_technologies/pdf/rfcs/synopsis_projects_2015.pdf	=10*3	30
			2. Membru în echipă - CASC- <i>Cities and Science Communication: Innovative Approaches to Engaging the Public</i> /FP7 Coordination and support actions (Science in Society Priority). http://cordis.europa.eu/project/rcn/91174_en.html	=10*2	20
			2.4.2.2. Membru in echipa unor granturi naționale	5*ani de desfășurare	
			1. PN-III-P2-2.1-PED-2021-1378 / 2022-2024 / (Naval emergency shuttle based on textile-reinforced composite for storage and transport of water-petroleum hydrocarbon compound in the event of disasters)	5*3	15
			2. Grant Nr.45/SGU/NC/I din 23.11. 2017 (Studentii – Prezentul și viitorul Văii Jiului)	5*3	15
			3. POCU/320/6/21/ 122773, Cod 122773 (DINAMIC - optimizarea ofertelor de studii din învățământ terțiar universitar și non-universitar tehnic în sprijinul angajabilității)	5*3	15
			4. Materiale metalice cu structuri compozite utilizabile în atmosfera potențial explozivă GRANT 849 CEEEX-M1-C2- 3607, 2006-2008	5*2	10
			5. Reducerea consumurilor electroenergetice și a cheltuielilor de exploatare a excavatoarelor de mare putere prin optimizarea parametrilor regimului de dislocare” grant CNCSIS 13182.	5*2	10
			6. Asigurarea competitivității și corelarea cu reglementările UE în domeniul prevenirii și combaterii riscurilor formării atmosferelor potențial explozive la minele de cărbune din Valea Jiului, Fazele I, II, III , IV și V, Grant C59-CEEEX-II 03/2006, beneficiar Ministerul Educației și Cercetării, 2006-2008.	5*2	10
			7. Tehnologie eficientă de exploatare mecanizată a carbunelui cu banc subminat la minele din Valea Jiului aliniata la performantele înregistrate in tarile U.E. Grant 269/29.10. AMCSIT Politehnica Bucuresti, Program Inovare, 2008-2010	5*2	10
	2.5. Proiecte de cercetare/ consult anta (valoare de minim 5000 Euro echivalenți)	2.5.2. Membru in echipa (3*ani desfășurare)	Membru in echipă	6* ani de desfășurare	
			1. Membru în echipă - Contractul de cercetare științifică universitară nr. 6446 din 07.10.2021. Modelarea și simularea componentelor echipamentelor industriale utilizând tehnologii CAD/CAM/CAE, Acronim: MSCEIT, Valoare 35.000 lei	6 * 1	6
			2. Membru în echipă - contractul de cercetare științifică universitară nr. 4281 din 31.05.2023, Verificarea și optimizarea geometriei taluzurilor prin analiză FDEM utilizând Geomechanica IRAZU. Studiu de caz: carierele de lignit din Bazinul Oltenia, Acronim: VETAF-Geo, Valoare 100.000 lei.	6 * 1	6

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				3. Contract prestări servicii nr.89/13.07.2022 - Studiul geotehnic – determinarea parametrilor fizico-mecanici și reologici în orizontul XIV al Minei Cantacuzino, în vederea estimării gradului de stabilitate a acestuia. Beneficiar SNS București	6*1	6
				4. Contract de cercetare nr. 5/12.04.2016 - Majorarea eficienței energetice prin elaborarea, analiza și optimizarea instalațiilor energetice din cadrul SC ASVJ SA Petroșani	6*1	6
				5. Contract de cercetare nr. 3/14.01.2015, - Intocmire măsurători de performanță și raport tehnic pentru determinarea unor indicatori necesari calificării producției de energie electrică în cogenerare de înaltă eficiență pentru Grupul Energetic nr. 4 de 150 MW din Complexul Energetic Hunedoara SA – Sucursala Electrocentrale Paroșeni (2015). Director contract: Șef lucr.dr.ing. Petrilean Dan Coduț	6*1	6
				6. Elaborarea și analiza bilanțului energetic complex pentru consumatorii semnificativi din conturul de bilanț aferent secțiilor de producție BCA la punctele de lucru Deva și Oradea, Contr. Nr. 11/15.07.2011 , Beneficiar: SC MACON SRL Deva, Director contract: Șef lucr.dr.ing. Petrilean Dan Coduț	6*1	6
				7. Retehnologizarea fluxurilor de transport de la unitățile miniere din cadrul CNH SA, Contract 142 ASL/2007 Compania Națională a Huilei Petroșani	6*1	6
				8. Studiul posibilităților de creștere a performanțelor în exploatare a rotorului excavatoarelor utilizate în carierele S.N.L.Oltenia, ținând seama de caracteristicile la tăiere ale lignitului și rocilor din descoperță. Contract nr. 1170/S/06.12.2006 cu S.N.L.O. Tg-Jiu.	6*1	6
				9. Cercetări teoretice și experimentale privind creșterea gradului de utilizare a utilajelor de excavatoare în carierele de lignit aparținând S.C. Complexul Energetic Turceni S.A. Contract nr. nr. 1/2006 cu S.C. Complexul Energetic Turceni S.A. (5 faze).	6*1	6
				10. Cercetări teoretice și experimentale privind îmbunătățirea performanțelor în exploatarea sistemelor de transport continuu la minele din cadrul C.N.H.-S.A. Petroșani. Contract nr. 4/2005 încheiat între Universitatea din Petroșani și Compania Națională a Huilei Petroșani.	6*1	6
				11. Studiul comportării la tăiere mecanică a rocilor sterile din descoperța stratelor de lignit și a lignitului în carierele aparținând CNL Oltenia în vederea creșterii performanțelor tehnice și economice a extragerii cu ajutorul excavatoarelor cu rotor. Contract nr. 6/2002 cu CNLO Târgu-Jiu (faza 4).	6*1	6
PUNCTAJ TOTAL PE ACTIVITATEA A2 REALIZAT						1165,75
PUNCTAJ TOTAL PE ACTIVITATEA A2 MINIM IMPUS						260
0	1	2	3	4	5	6
3	Recunoașterea impactului	3.1. Citări în reviste ISI și BDI și în volumele conferințelor ISI și BDI	3.1.1 ISI 8 / nr. autori articol citat	3.1.1. Citări în reviste ISI Articol citat: Popescu, F.D.; Radu, S.M.; Kotwica, K.; Andraș, A.; Kertesz (Brînaș), I. <i>Simulation of the Time Response of the ERc 1400-30/7 Bucket Wheel Excavator's Boom during the Excavation Process. Sustainability</i> 2019, 11, 4357. https://doi.org/10.3390/su11164357 WOS:000484472500101 https://publons.com/publon/21231929/ http://cel.webofknowledge.com/InboundService.do?customersID=Publons CEL&smartRedirect=yes&mode=FullRecord&IsP		

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roductCode=Yes&product=CEL&Init=Yes&Func=Frame&action=retrieve&SrcApp=Publons&SrcAuth=Publons_CEL&SID=C1WcNkoCngcqD6o3tvX&UT=WOS%3A000484472500101			
Kostić, S.; Stojković, M.; Ilić, V.; Trivan, J. Deep Neural Network Model for Determination of Coal Cutting Resistance and Performance of Bucket-Wheel Excavator Based on the Environmental Properties and Excavation Parameters. <i>Processes</i> 2023 , <i>11</i> , 3067. https://doi.org/10.3390/pr11113067	=8/5	1,6	
Akbar, M.A.; Wong, W.-O.; Rustighi, E. A Hybrid Damper with Tunable Particle Impact Damping and Coulomb Friction. <i>Machines</i> 2023 , <i>11</i> , 545. https://doi.org/10.3390/machines11050545	=8/5	1,6	
Gnjatovic, N; Bosnjak, S; Stefanovic, A. <i>Analysis of the Dynamic Response as a Basis for the Efficient Protection of Large Structure Health Using Controllable Frequency-Controlled Drives</i> . <i>Mathematics</i> . 11 (1), 154, DOI: 3390/math11010154	=8/5	1,6	
Rafajłowicz, W., Więckowski, J., Moczko, P., Rafajłowicz, E. (2020) <i>Iterative learning from suppressing vibrations in construction machinery using magnetorheological dampers</i> . <i>Automation in Construction</i> , 119 , p. 103326. https://apps-whofofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=21&SID=D4E1wLYuhWFsZaF2Gt7&page=1&doc=1	=8/5	1,6	
Popescu, F.G., Pasculescu, D., Marcu, M.D., Pasculescu, V.M. (2020) <i>Analysis of current and voltage harmonics introduced by the drive systems of a bucket wheel excavator</i> . <i>Min. miner. depos.</i> 2020 , <i>14</i> (4):40-46. https://apps-whofofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=28&SID=D4E1wLYuhWFsZaF2Gt7&page=1&doc=2	=8/5	1,6	
Articol citat: Popescu, F. D., Radu, S. M., Andraș, A. , Brînaș, I. <i>Numerical Modeling of Mine Hoist Disc Brake Temperature for Safer Operation</i> . <i>Sustainability</i> , 2021 , <i>13</i> (5), 2874. LF. 3,251 Q2. WOS:000628676400001. https://www-whofofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000628676400001			
Qiao, S.; Peng, Z.; Zhang, J.; Jin, L. Parameter Calibration and System Design of Material Lifting System for Inclined Shaft Construction. <i>Appl. Sci.</i> 2023 , <i>13</i> , 9909. https://doi.org/10.3390/app13179909	=8/4	2	
Li, Zixian, Jiawei Xiao, Xiaoxi Ding, Liming Wang, Yang Yang, Wanhao Zhang, Minggang Du, and Yimin Shao. A New Raw Signal Fusion Method Using Reweighted VMD for Early Crack Fault Diagnosis at Spline Tooth of Clutch Friction Disc. <i>Measurement</i> 220 (October 2023): 113414. doi.org/10.1016/j.measurement.2023.113414 .	=8/4	2	
Li D, Wang S, Fang X, Guo Y, Hu N, Zhang D. Research progress of temperature field calculation of disc brake braking interface based on numerical analysis. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> . 2022 . doi:10.1177/09544070221128288	=8/4	2	
Ungureanu M, Medan N, Ungureanu NS, Pop N, Nadolny K. Tribological Aspects Concerning the Study of Overhead Crane Brakes. <i>Materials</i> . 2022 ; <i>15</i> (19):6549. https://doi.org/10.3390/ma15196549	=8/4	2	
Wang C, Wang S, Jin H, Huo H, Xu H, Chen Z. Thermal-mechanical coupling analysis and optimization of mine hoist brake disc. <i>Advances in Mechanical Engineering</i> . 2022 ; <i>14</i> (6). doi: 10.1177/16878132221106297	=8/4	2	
Yang X, Zhou X, Fu Y, Wan B. Research on Modeling and Load Simulation Algorithm of Tracked Vehicle Braking System on Mu-Split Road Surfaces. <i>Machines</i> . 2022 ; <i>10</i> (4):224. https://doi.org/10.3390/machines10040224	=8/4	2	
Articol citat: Popescu, F.D.; Radu, S.M.; Andras, A. ; Brinas, I.; Budilica, D.I.; Popescu V.; <i>Comparative Analysis of Mine Shaft Hoisting Systems' Brake Temperature Using Finite Element Analysis (FEA)</i> , <i>MATERIALS</i> 2022 , <i>15</i> , 9, 3363, LF.: 3.748, Q1 , DOI: 10.3390/ma15093363. WOS:000800732600001. https://www-whofofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000800732600001			
Zuo, J., Zheng, S. and Wang, X. (2024) 'The thermo-mechanical coupling method of brake disc based on dynamic convective heat transfer', <i>Numerical Heat Transfer, Part A: Applications</i> , pp. 1–15. doi: 10.1080/10407782.2024.2350032.	=8/6	1,33	
Yin, J.; Zhou, Q.; Fang, X.; Liu, Z.; Liu, Y.; Zhang, S.; Sha, Z. Study on Service Vibration Characteristics of High-Speed Train Disc Brake under Thermo-Solid Coupling. <i>Appl. Sci.</i> 2023 , <i>13</i> , 12361. https://doi.org/10.3390/app132212361	=8/6	1,33	

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			Singh, R.K., Sarkar, C. In-situ braking torque and temperature analysis of two-wheeler drum brake in friction braking. <i>J Mech Sci Technol</i> 37, 2069–2077 (2023). https://doi.org/10.1007/s12206-023-0342-8	=8/6	1,33
			Jia Q, Fu G, Xie X, Hu S. Method Construction and Evaluation: A More Comprehensive and Reliable Classification of Coal Mine Gas Explosion Causes. <i>Energies</i> . 2022; 15(22):8443. https://doi.org/10.3390/en15228443	=8/6	1,33
			Putra MRA, Nizam M, Tjahjana DDDP, Arifin Z, Lenggana BW, Inayati I. Analysis of Heat Generation on Unipolar Axial Eddy Current Brake Disc and Its Effect on Braking Performance. <i>World Electric Vehicle Journal</i> . 2022; 13(10):180. https://doi.org/10.3390/wevj13100180	=8/6	1,33
			Welteji Bena, Gofila Sirata, "Coupled Thermal Stress Analysis of Volvo Truck Disc Brake", <i>Advances in Materials Science and Engineering</i> , vol. 2022, Article ID 7945264, 10 pages, 2022. https://doi.org/10.1155/2022/7945264	=8/6	1,33
			Articol citat: Brînaș, I., Andraș, A., Radu, S.M., Popescu, F.D., Andraș, I., Marc, B.I., Cioclu, A.R. <i>Determination of the Bucket Wheel Drive Power by Computer Modeling Based on Specific Energy Consumption and Cutting Geometry</i> . <i>Energies</i> , 2021, 14(3), 3892. I.F. 3,004 Q3 . DOI:10.3390/en14133892. WOS:000671317100001 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000671317100001		
			Ma, Z.; Ye, J.; Zhang, X.; Ye, W. A Study on the Rock-Breaking Characteristics of an Arcing-Blade Cutter under Different Cutting Parameters. <i>Appl. Sci.</i> 2024, 14, 1241. https://doi.org/10.3390/app14031241	=8/7	1,14
			VÎLCEANU, F., RADU, A. M., DINESCU, S., TOMUȘ, O. B., & CIOCLU, A. R. (2024). INFLUENCE OF THE DYNAMIC/TECHNOLOGICAL FACTORS ON THE LIFE EXPECTANCY OF THE EXCAVATION EQUIPMENT IN OPEN CAST MINES. <i>ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING</i> , 66(4).	=8/7	1,14
			Sun, Y.; Wang, Y.; Wang, L.; Li, C.; Tang, L.; Wang, D.; Ma, R.; Xue, Z.; Wei, X.; Cui, M.; et al. Digging Performance and Stress Characteristic of the Excavator Bucket. <i>Appl. Sci.</i> 2023, 13, 11507. https://doi.org/10.3390/app132011507	=8/7	1,14
			Lu, Z.; Lin, S.; Chen, J.; Gu, T.; Xie, Y. A Multi-Objective Collaborative Optimization Method for the Excavator Working Device to Support Energy Consumption Reduction. <i>Energies</i> 2023, 16, 7056. https://doi.org/10.3390/en16207056	=8/7	1,14
			Egorov, A.V., Shram, V.G., Kaizer, Y.F. et al. Dynamic Control of the Efficiency of Mechanic Cutting of Material. <i>J. Mach. Manuf. Reliab.</i> 52, 432–435 (2023). https://doi.org/10.3103/S1052618823050047	=8/7	1,14
			Harbuz, I.; Banciu, D.D.; David, R.; Cercel, C.; Cotîrjă, O.; Ciurea, B.M.; Radu, S.M.; Dinescu, S.; Jinga, S.I.; Banciu, A. Perspectives on Scaffold Designs with Roles in Liver Cell Asymmetry and Medical and Industrial Applications by Using a New Type of Specialized 3D Bioprinter. <i>Int. J. Mol. Sci.</i> 2023, 24, 14722. https://doi.org/10.3390/ijms241914722	=8/7	1,14
			Kritikakis, G.; Galetakis, M.; Vafidis, A.; Apostolopoulos, G.; Michalakopoulos, T.; Triantafyllou, M.; Roumpos, C.; Pavloudakis, F.; Deligiorgis, B.; Economou, N.; et al. Toward the Optimization of Mining Operations Using an Automatic Unmineable Inclusions Detection System for Bucket Wheel Excavator Collision Prevention: A Synthetic Study. <i>Sustainability</i> 2023, 15, 13097. https://doi.org/10.3390/su151713097	=8/7	1,14
			Herceg, V., Klanfar, M. ., Herceg, K., & Domitrović, D. (2023). Specific energy consumption of material handling by excavator in the quarrying of crushed stone. <i>Rudarsko-geološko-Naftni Zbornik</i> , 38(1), 83–92. https://doi.org/10.17794/rgn.2023.1.8	=8/7	1,14
			Krauze K, Mucha K, Wydro T, Klempka R. Assessment of the Structure of Cutting Heads with Regard to the Mining Machine Load Using Proprietary Software. <i>Energies</i> . 2022; 15(19):6886. https://doi.org/10.3390/en15196886	=8/7	1,14
			Nowak-Szapak Anna. Computational model of the basic efficiency parameters of the bucket wheel excavator working in a block with a vertical obstacle. <i>Mining Science</i> . 2021. 28§ 189. DOI: 10.37190/mse212814	=8/7	1,14
			Articol citat: Popescu, F.D.; Radu, S.M.; Andraș, A.; Kertesz (Brînaș), I. <i>A grafo-numeric method of determination of the operation power of the rotor of EsRc-1400 bucket wheel excavator using computer simulation in SolidWorks</i> . <i>MATEC Web Conf.</i> , 290 (2019) 04007. WOS:000569367700057 . DOI: doi.org/10.1051/MATECCONF/201929004007 . https://publons.com/publon/34395500/ http://cel.webofknowledge.com/InboundService.do?customersID=Publons_CEL&smartRedirect=yes&mode=FullRecord&IsP		

13

roductCode=Yes&product=CEL&Init=Yes&Func=Frame&action=retrieve&SrcApp=Publons&SrcAuth=Publons_CEL&SID=F4sVNX5gJJrtikV4OJj&UT=WOS%3A000569367700057		
VÎLCEANU, F., RADU, A. M., DINESCU, S., TOMUȘ, O. B., & CIOCLU, A. R. (2024). INFLUENCE OF THE DYNAMIC/TECHNOLOGICAL FACTORS ON THE LIFE EXPECTANCY OF THE EXCAVATION EQUIPMENT IN OPEN CAST MINES. ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING, 66(4).	=8/4	2
Harbuz, I.; Banciu, D.D.; David, R.; Cercel, C.; Cotîrîă, O.; Ciurea, B.M.; Radu, S.M.; Dinescu, S.; Jinga, S.I.; Banciu, A. Perspectives on Scaffold Designs with Roles in Liver Cell Asymmetry and Medical and Industrial Applications by Using a New Type of Specialized 3D Bioprinter. <i>Int. J. Mol. Sci.</i> 2023 , <i>24</i> , 14722. https://doi.org/10.3390/ijms241914722	=8/4	2
Lu, Z.; Lin, S.; Chen, J.; Gu, T.; Xie, Y. A Multi-Objective Collaborative Optimization Method for the Excavator Working Device to Support Energy Consumption Reduction. <i>Energies</i> 2023 , <i>16</i> , 7056. https://doi.org/10.3390/en16207056	=8/4	2
Krauze K, Mucha K, Wydro T, Klempka R. Assessment of the Structure of Cutting Heads with Regard to the Mining Machine Load Using Proprietary Software. <i>Energies</i> . 2022; 15(19):6886. tps://doi.org/10.3390/en15196886	=8/4	2
Popescu, F.G., Pasculescu, D., Marcu, M.D., Pasculescu, V.M. (2020) <i>Analysis of current and voltage harmonics introduced by the drive systems of a bucket wheel excavator</i> . Min. miner. depos. 2020, 14(4):40-46. https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=28&SID=D4E1wLYuhWFsZaF2Gt7&page=1&doc=2	=8/4	2
Articol citat: Andraș, A.; Radu, S.M.; Brînaș, I.; Popescu, F.D.; Budilică, D.I.; Korozsi, E.B. Prediction of Material Failure Time for a Bucket Wheel Excavator Boom Using Computer Simulation. Materials 2021, 14, 7897. I.F. 3.623 Q1 DOI: 10.3390/ma14247897. WOS:000738459300001 https://www.webofscience.com/wos/woscc/full-record/WOS:000738459300001?SID=CIIIS3QLxFLomRxWzhVR		
Yu, S.; Cao, Q.; Tian, Y.; Zhu, Y.; Liu, X.; Ni, J.; Zhang, W.; Cao, W. Design and Testing of Vehicle-Mounted Crop Growth Monitoring System. <i>Agronomy</i> 2024, 14, 1361. https://doi.org/10.3390/agronomy14071361	=8/6	1,33
Xian, Chen, Han Zhang, Young-chul Kim, Haochen Zhang, and Yantong Liu. "Programmed System for Fatigue Life Prediction of Excavator Turntables Based on Multi-Body Dynamics and Finite Element Analysis." <i>Heliyon</i> 10, no. 12 (June 2024): e33126. https://doi.org/10.1016/j.heliyon.2024.e33126 .	=8/6	1,33
Udayakumar Kamalakannan, Ramamoorthy Sriramulu, Poorvadevi Ramamurthi. DTFL-DF: Digital twin architecture powered by federated learning decision forest to mitigate fire accidents in mining industry. <i>Systems Engineering</i> , 2024, 27 (5) , pp.869-885. https://doi.org/10.1002/sys.21755	=8/6	1,33
Szorbik, S. and Virág, Z., 2024. Optimized Trapezoidal Stiffened Plates under Uniaxial Compression with a Sudden, Rapidly Applied Pressure. <i>Acta Polytechnica Hungarica</i> , 21(5).	=8/6	1,33
Primera, E.; Fernández, D.; Cacereño, A.; Rodríguez-Prieto, A. Predictive Analytics-Based Methodology Supported by Wireless Monitoring for the Prognosis of Roller-Bearing Failure. <i>Machines</i> 2024, 12, 69. https://doi.org/10.3390/machines12010069	=8/6	1,33
Kostić, S.; Stojković, M.; Ilić, V.; Trivan, J. Deep Neural Network Model for Determination of Coal Cutting Resistance and Performance of Bucket-Wheel Excavator Based on the Environmental Properties and Excavation Parameters. <i>Processes</i> 2023, 11, 3067. https://doi.org/10.3390/pr11113067	=8/6	1,33
Gnjatovic, N; Bosnjak, S; Stefanovic, A. <i>Analysis of the Dynamic Response as a Basis for the Efficient Protection of Large Structure Health Using Controllable Frequency-Controlled Drives</i> . <i>Mathematics</i> . 11(1), 154, DOI: 10.3390/math11010154	=8/6	1,33
Hazrathosseini, Arman; Moradi Afrapoli, Ali. The advent of digital twins in surface mining: Its time has finally arrived. <i>Resources Policy</i> , 80, 103155. DOI: 10.1016/j.resourpol.2022.103155	=8/6	1,33

13

			Articol citat: Irimie S.I., Radu S.M., Petrelean D.C., Andraş A. , <i>Reducing the environmental impact of a gas operated cogeneration installation</i> , The 8 th International Conference on Manufacturing Science and Education MSE, 7 – 9 June 2017, MATEC Web Conf. Volume 121, 2017, Sibiu, Romania, ISSN 2559-2963, ISSN-L 2559-2963, pp. 876-884. DOI: 10.1051/mateconf/201712101016 http://apps.webofknowledge.com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=AdvancedSearch&qid=1&SID=E25YdPsMQP3TomlPNHX&page=1&doc=3		
			Păsculescu, V. M., Ghicioi, E., Morar, M. S., Păsculescu, D., & ŞUVAR, M. C. (2019). <i>Computational study for improving the quality of safety measures for LPG filling stations</i> . Quality-Access to Success, 20(1). WOS:000459686300004. https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=70&SID=D4E1wLYuhWFsZaF2Gt7&page=1&doc=2	=8/4	2
			Păsculescu, V., Ghicioi, E., Morar, M., Şuvar, M., & Vlasin, N.I. (2019). <i>Consequence modelling of a truck explosion</i> . MATEC Web Conf., 290 (2019) 12023. DOI: 10.1051/mateconf/201929012023. WOS:000569367700152. https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=60&SID=D4E1wLYuhWFsZaF2Gt7&page=1&doc=1	=8/4	2
			Articol citat: Andraş, A. , Brînaş, I., Radu, S.M., Popescu, F.D., Popescu, V., Budilica, D.I. <i>INVESTIGATION OF THE THERMAL BEHAVIOUR FOR THE DISC-PAD ASSEMBLY OF A MINE HOIST BRAKE USING COMSOL MULTIPHYSICS</i> . Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, Volume: 64, Issue: 2, Pages: 227-234, Published: JUN 2021, ISSN: 1221-5872. WOS: 000684576900004 . https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000684576900004		
			VÎLCEANU, F., RADU, A. M., DINESCU, S., TOMUŞ, O. B., & CIOCLU, A. R. (2024). INFLUENCE OF THE DYNAMIC/TECHNOLOGICAL FACTORS ON THE LIFE EXPECTANCY OF THE EXCAVATION EQUIPMENT IN OPEN CAST MINES. ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING, 66(4).	=8/6	1,33
			Putra MRA, Nizam M, Tjahjana DDDP, Arifin Z, Lenggana BW, Inayati I. Analysis of Heat Generation on Unipolar Axial Eddy Current Brake Disc and Its Effect on Braking Performance. <i>World Electric Vehicle Journal</i> . 2022; 13(10):180. https://doi.org/10.3390/wevj13100180	=8/6	1,33
			Articol citat: Tomuş, O.B., Andraş, A. , Magyari, M., <i>Study on the reliability of the underground conveyor belt system installed at Vulcan Mine, the Jiu Valley Basin in Romania</i> , The 8 th International Conference on Manufacturing Science and Education MSE, 7 – 9 June 2017, MATEC Web Conf. Volume 121, 2017, Sibiu, Romania, ISSN 2559-2963, ISSN-L 2559-2963, pp. 115-122. https://doi.org/10.1051/mateconf/201712110005 WOS:000435283800117 https://publons.com/publon/22434211/ http://cel.webofknowledge.com/InboundService.do?customersID=Publons_CEL&smartRedirect=yes&mode=FullRecord&IsProductCode=Yes&product=CEL&Init=Yes&Func=Frame&action=retrieve&SrcApp=Publons&SrcAuth=Publons_CEL&SID=C63qzGCIBbhjA5yRar6&UT=WOS%3A000435283800016		
			Li, Meiyan, S. U. N. Yingqian, and Chuan Luo. "Reliability Analysis of Belt Conveyor Based on Fault Data." In <i>IOP Conference Series: Materials Science and Engineering</i> , vol. 692, no. 1, p. 012009. IOP Publishing, 2019. WOS:000562322800009 https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=UA&search_mode=CitingArticles&qid=88&SID=D4E1wLYuhWFsZaF2Gt7&page=1&doc=1	=8/3	2,66
			V.A. Florea, D. Pasculescu, V.M. Pasculescu. <i>Reliability and maintainability of scraper conveyor used in coal mining in the Jiu Valley</i> . Mining of Mineral Deposits, 15(3), 16-21, 2021. https://doi.org/10.33271/mining15.03.016	=8/3	2,66
			Articol citat: A. Andraş, I. Andraş, O.B. Tomuş , <i>Mathematical models of powered roof support interaction with surrounding rocks</i> , International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM 17 (13), pp.529. DOI: 10.5593/sgem2017/13/S03.067 https://www.scopus.com/record/display.uri?eid=2-s2.0-85032487107&origin=inward&txGid=008289372b6c76e66028ccb70d885684		

13

			Szurgacz, D., Brodny, J., <i>Tests of geometry of the powered roof support section</i> , Energies 12(20),3945	=8/3	2,66
			Articol citat: F.D. Popescu, A. Andras , I. Kertesz, <i>The Method Of Minimizing The Calculated Power Of Vertical Transport Installations</i> , 17th International Multidisciplinary Scientific GeoConference SGEM 2017, www.sgem.org, SGEM2017 Conference Proceedings, ISBN 978-619-7105-00-1 / ISSN 1314-2704, 29 June - 5 July, 2017, Vol. 17, Issue 13, 901-908 pp, DOI: 10.5593/sgem2017/13/S03.114 https://www.sgem.org/sgemlib/spip.php?article9265&lang=en		
			Dumitrescu, I., Grecea, D., Vitan, C., & Vitan, D. (2019). Research regarding the upgrading of the attachments for balance ropes of mine hoists. MATEC Web Conf., 290 (2019) 08016. WOS:000569367700106. https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=80&SID=D4E1wLYuhWFsZaF2Gt7&page=1&doc=1	=8/3	2,66
			Pasulescu, V.M., Morar, M.S., Pasulescu, D., Suvar, M.C., Tuhut, L.I., <i>Occupational health and safety risk assessment for preventing electrical injury in underground mining</i> , International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM 19(1.3), pp. 455-462	=8/3	2,66
			Articol citat: Radu, S.M., Popescu, F.D., Andraș, A. , Andraș, I., Brînaș, I., Valceanu, F. <i>NUMERICAL ANALYSIS OF FATIGUE FOR THE ASSESSMENT OF REMAINING SERVICE LIFE OF THE ERC 1400-30/7 BUCKET WHEEL EXCAVATOR</i> . Proceedings Of The Romanian Academy Series A-Mathematics Physics Technical Sciences Information Science, 2021, 22 (2), 143-152. I.F. 1,523 Q3. WOS: 000667515100005.		
			Gnjatović, N.; Bošnjak, S.; Stefanović, A. Analysis of the Dynamic Response as a Basis for the Efficient Protection of Large Structure Health Using Controllable Frequency-Controlled Drives. <i>Mathematics</i> 2023 , 11, 154. https://doi.org/10.3390/math11010154	=8/6	1,33
			W. Liu, Q. Zeng, W. Qin, L. Wan and J. Liu, "Lifetime Reliability of Hydraulic Excavators' Actuator," in <i>IEEE Access</i> , vol. 11, pp. 117670-117684, 2023, doi: 10.1109/ACCESS.2023.3324720	=8/6	1,33
		3.1.2 BDI <u>4/nr. autori articol citat</u>	3.1.1. Citări în reviste și Proceedings BDI		
			Articol citat: FD Popescu, SM Radu, A Andraș , IK Brînaș. (2019) <i>Simulation of the frequency response of the ERC 1400 Bucket Wheel Excavator boom, during the excavation process</i> , New Trends in Production Engineering 2 (1), 153-167. ISSN: 2545-2843 [Sciendo, Google Scholar]. DOI 10.2478/ntpe-2019-0016 https://content.sciendo.com/configurable/contentpage/journals\$002fntpe\$002f2\$002f1\$002farticle-p153.xml		
			Virág, Z., & Szirbik, S. (2019). Finite Element Modal Analysis Of A Hybrid Stiffened Plate. <i>Annals of the University of Petroșani Mechanical Engineering</i> , 21.	=4/4	1
			SZIRBIK, S., & VIRÁG, Z. (2020). NUMERICAL INVESTIGATION OF OPTIMIZED STIFFENED PLATES WITH DAMAGED STIFFENERS. <i>Annals of the University of Petroșani</i> , 22, 55-62.	=4/4	1
			Articol citat: FD Popescu, SM Radu, K Kotwica, A Andraș , IK Brînaș, S Dinescu. (2019) <i>Vibration analysis of a bucket wheel excavator boom using Rayleigh's damping model</i> , New Trends in Production Engineering 2 (1), 233-241. ISSN: 2545-2843 [Sciendo, Google Scholar.] DOI 10.2478/ntpe-2019-0024 https://content.sciendo.com/view/journals/ntpe/2/1/article-p233.xml		
			Ilie, F. M., & Alexandru, T. G. (2019). The Limiting Aspects Of Product Design Software Applied To The Virtual Prototyping Of Car Body Lifting End Effectors. <i>Annals of the University of Petroșani</i> , 21, 59-64.	=4/6	0,67
			Малафеев, С. И., & Малафеев, С. С. (2021). И УПРАВЛЯЮЩИЕ КОМПОНЕНТЫ ЭЛЕКТРИЧЕСКИХ КАРЬЕРНЫХ ЭКСКАВАТОРОВ.	=4/6	0,67
			Articol citat: S. M. Radu, F. D. Popescu, Andrei Andraș , I. Kertesz Brinas, O. B. Tomus, <i>Simulation and modelling of the forces acting on the rotor shaft of bwes, in order to improve the quality of the cutting process</i> , Annals of the University of Petroșani, Mechanical Engineering, Vol. 20 (2018), (XLVII), 2018, ISSN 1454-9166 https://www.upet.ro/annals/mechanical/		

13

			Virág, Z. And Szirbik, S., 2019. <i>Finite Element Modal Analysis Of A Hybrid Stiffened Plate</i> . Annals of the University of Petrosani Mechanical Engineering, 21. https://www.upet.ro/annals/mechanical/pdf/2019/14_Virag_Szirbik.pdf	=4/5	0,8
			SZIRBIK, S., & VIRÁG, Z. (2020). NUMERICAL INVESTIGATION OF OPTIMIZED STIFFENED PLATES WITH DAMAGED STIFFENERS. Annals of the University of Petroșani, 22, 55-62.	=4/5	0,8
			Zoltán, V., & Sándor, S. (2021). Hibrid bordázott lemezek rezonancia vizsgálata végeelem-módszerrel. Multidiszciplináris Tudományok, 11(2), 32-37.	=4/5	0,8
			Tomuş, O. B. (2019). <i>Study On The Reliability Of The Bwe Teeth Used In Oltenia Basin</i> . Annals of the University of Petroșani, 21, 95-104. https://www.upet.ro/annals/mechanical/pdf/2019/12_Tomus.pdf	=4/5	0,8
			Articol citat: F.D. Popescu, A. Andraş, I. Kertesz, <i>The Method Of Minimizing The Calculated Power Of Vertical Transport Installations</i> , 17th International Multidisciplinary Scientific GeoConference SGEM 2017, www.sgem.org, SGEM2017 Conference Proceedings, ISBN 978-619-7105-00-1 / ISSN 1314-2704, 29 June - 5 July, 2017, Vol. 17, Issue 13, 901-908 pp, DOI: 10.5593/sgem2017/13/S03.114 https://www.sgem.org/sgemlib/spip.php?article9265&lang=en		
			Andras, I., Dumitrescu, I., Nan, M. S., & Vitan, C. <i>Study On The Technical Condition Of The Sheave Wheels In The Hoist Tower Of Slanic Prahova Salt Mine</i> . MultiScience - XXXIII. microCAD International Multidisciplinary Scientific Conference (2019)	=4/3	1,33
			Pasculescu, V. M., Morar, M. S., Pasculescu, D., Suvar, M. C., & Tuhut, L. I. (2019). Occupational Health And Safety Risk Assessment For Preventing Electrical Injury In Underground Mining. <i>International Multidisciplinary Scientific Geoconference: Sgem</i> , 19(1.3), 455-462.	=4/3	1,33
			Dumitrescu, I., Grecea, D., Vitan, C., & Vitan, D. (2019). Research regarding the upgrading of the attachments for balance ropes of mine hoists. In MATEC Web of Conferences (Vol. 290, p. 08016). EDP Sciences.	=4/3	1,33
			Articol citat: Irimie S.I., Radu S.M., Petrelean D.C., Andraş A., <i>Reducing the environmental impact of a gas operated cogeneration installation</i> , The 8 th International Conference on Manufacterings Science and Education MSE, 7 – 9 June 2017, MATEC Web Conf. Volume 121, 2017, Sibiu, Romania, ISSN 2559-2963, ISSN-L 2559-2963, pp. 876-884. http://apps.webofknowledge.com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=AdvancedSearch&qid=1&SID=E25YdPsMQP3TomlPNHX&page=1&doc=3		
			Păsculescu, V. M., Ghicioi, E., Morar, M. S., Păsculescu, D., & ŞUVAR, M. C. (2019). Computational study for improving the quality of safety measures for LPG filling stations. <i>Quality-Access to Success</i> , 20.	=4/4	1
			Pasculescu, V. M., Ghicioi, E., Morar, M. S., Suvar, M. C., & Vlasin, N. I. (2019). Consequence modelling of a truck explosion. In MATEC Web of Conferences (Vol. 290, p. 12023). EDP Sciences.	=4/4	1
			Pasculescu, V. M., Pasculescu, D., Morar, M. S., Suvar, M. C., & Tuhut, L. I. (2020). OHS Risk Assessment – A Case Study For Underground Coal Mining Electricians. <i>Sws Journal Of Earth & Planetary Sciences</i> , 2(1), 1-15. https://doi.org/10.35603/eps2020/issue1.03	=4/4	1
			Pasculescu, V.M., Morar, M.S., Pasculescu, D., Suvar, M.C., Tuhut, L.I., <i>Occupational health and safety risk assessment for preventing electrical injury in underground mining</i> , , SGEM 19(1.3), pp. 455-462	=4/4	1
			Articol citat: I. Andraş, A. Andraş, O.B. Tomuş, <i>Optimization of geometric and strength parameters of teeth for bucket wheel excavator in view to increasing the cutting efficienc</i> , International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM 17 (13), pp.741. DOI: 10.5593/sgem2017/13/S03.077 https://www.scopus.com/record/display.uri?eid=2-s2.0-85032499187&origin=inward&txGid=44f114d6bc821fb620f8ae7bfl70289a		
			Popescu, F. D., Radu, S. M., & Ilioni, C. (2017). The Analysis Of The Deformations And Stresses Of The Cutting-Teeth Of Bucketwheel Excavators (Bwes) During Operation, Using Finite Elements Method (Fem). <i>Annals of the University of Petrosani Mechanical Engineering</i> , 19.	=4/3	1,33

13

			Brinas, I. K., Rebedea, N. I., & Oltean, I. L. (2018). Bucket wheel excavator cutting tooth stress and deformation analysis during operation using Finite Elements Method (FEM). <i>Mining–Informatics, Automation and Electrical Engineering</i> , 56.	=4/3	1,33
			Brinas, I. K., Rebedea, N. I., & Oltean, I. L. (2018). Analiza naprężeń i odkształceń zębów tnących koparki wielonaczyniowej w trakcie pracy z wykorzystaniem metody elementów skończonych (MES). <i>Mining–Informatics, Automation and Electrical Engineering</i> , 56.	=4/3	1,33
			Articol citat: M. Lazar, I. Andras, F. Faur, A. Andras , <i>Influence of physical, mechanical and technological characteristics of coal and overburden rocks on the excavation process</i> , International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM 17 (13), pp.445. DOI: 10.5593/sgem2017/13/S03.057 https://www.scopus.com/record/display.uri?eid=2-s2.0-85032512328&origin=inward&txGid=b6f030143a1709ab6ae255573c3613a3		
			Florea, V. A. (2018). <i>Researches on wear and reliability of some subassemblies and spare parts of technological equipment</i> . Annals of the University of Petroșani, 20, 19-26.	=4/4	1
			Articol citat: Iosif ANDRAS, Stela DINESCU, Andrei ANDRAS , <i>Comparative Analysis Of Different Methods Of Reliability Assessment For Continuous Mining Technological Systems</i> , North University Baia Mare Scientific Bulletin Series C, Volume XXII (2008) Fascicle Mechanics, Tribology, Machine Manufacturing Technology, pag. 7-12; ISSN: 1224-3264. (revistă categoria B+, cod CNCIS 610; Indexată în Proquest, Ebsco, CSA - http://www.nordtech.ubm.ro/list.php)		
			G. Balan et al., "New Methods of Mining Technological System's Performance Analysis", Applied Mechanics and Materials, Vols. 789-790, pp. 1317-1322, 2015; http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.825.9021&rep=rep1&type=pdf	=4/3	1,33
			Radu, Sorin Mihai, Witold Chmielarz, et al. <i>Mining Technological System's Performance Analysis</i> . Annals of the University of Craiova for Journalism, Communication and Management 2.1 (2016): 56-64.	=4/3	1,33
			Articol citat: Andraș, A. , Andraș, I., Radu, S.M. - <i>Study regarding the bucket-wheel excavators used in hard rock excavations</i> , Annals of the University of Petroșani, Mechanical Engineering, Vol. 18 (XLV), 2016, pag. 11-22, ISSN 1454-9166; (revistă categoria B+, cod CNCIS 26; Indexată în Ulrich's Periodicals Directory, EBSCO Publishing Inc., Columbia University Libraries, SCIRIUS, Periodicals.ru, Suweco - http://upet.ro/annals/mechanical)		
			GILMA, I., & ILIONI, C. (2017). ASPECTS REGARDING MAINTAINABILITY ANALYSIS OF EsRe-1400 BUCKET WHEEL EXCAVATOR. <i>Annals of the University of Petroșani Mechanical Engineering</i> , 19.	=4/3	1,33
			Virág, Z., Fülöp, G., & Fülöp, V. G. (2020). Cutting and Hauling Mining Adapter for Dimension Stone. In <i>Vehicle and Automotive Engineering</i> (pp. 417-423). Springer, SG.	=4/3	1,33
			Pekol, A. (2019). Evaluation and Risk Analysis of Open-Pit Mining Operations. <i>BHM Berg-und Hüttenmännische Monatshefte</i> , 164(6), 232-236.	=4/3	1,33
			VIRÁG, Z., FÜLÖP, V., & MOLNÁR, J. (2018). INITIAL STEPS TO DEVELOP A CUTTING AND HAULING ADAPTER FOR DIMENSION STONE MINING. <i>Annals of the University of Petroșani Mechanical Engineering</i> , 20.	=4/3	1,33
			Articol citat: S.M. Radu, W. Chmielarz, A. Andras - <i>Mining Technological System's Performance Analysis</i> , Annals of the University of Craiova for Journalism, Communication and Management, Volume 2, 2016, ISSN 2501-3513. <u>Indexata RePEc</u> . Google Scholar www.aucjc.ro/wp-content/uploads/2016/10/aujcjm-vol-2-2016-56-64.pdf		
			Tomuş, O. B., Jula, D., & Rada, A. C. (2017). Reliability Analysis Of The Braking System Of The Industrial Loader/Transporter MACHINES. <i>Annals of the University of Petroșani Mechanical Engineering</i> , 19.	=4/3	1,33
			Vladu, B., Nan, M. S., Dunca, E., & Grigorie, I. E. (2019). Determination Of Indicators Of Sustainable Development Of The Ploșoru Common Rural Area Affected By The Restructure Of The Mining Industry. <i>Annals of the University of Petroșani Mechanical Engineering</i> , 21.	=4/3	1,33
			Brinas, I. K., Rebedea, N. I., & Oltean, I. L. (2018). Bucket wheel excavator cutting tooth stress and deformation analysis during operation using Finite Elements Method (FEM). <i>Mining–Informatics, Automation and Electrical Engineering</i> , 56.	=4/3	1,33

13

				Popescu, F. D., Radu, S. M., & Ilioni, C. (2017). The Analysis Of The Deformations And Stresses Of The Cutting-Teeth Of Bucketwheel Excavators (Bwes) During Operation, Using Finite Elements Method (FEM). <i>Annals of the University of Petrosani Mechanical Engineering</i> , 19.	=4/3	1,33
				Brinas, I. K., Rebedea, N. I., & Oltean, I. L. (2018). Analiza naprężeń i odkształceń zębów tnących koparki wielonaczyniowej w trakcie pracy z wykorzystaniem metody elementów skończonych (MES). <i>Mining-Informatics, Automation and Electrical Engineering</i> , 56.	=4/3	1,33
				Articol citat: Kovacs, J, Andraş, I., Andraş, A. , Tomuş. O.B., <i>Overview Of The Results Obtained In The Field Of Rock Cutting In Underground And Open Pit Conditions. Monografia Nowoczesne metody eksploatacji węgla i skał zwięzłych. Krakow, 2013. Pag. 9-16, Akademia Górniczo-Hutnicza.. Krakow, ISBN 978-83-930353-1-1</i>		
				Tomuş, O. B., & Rada, A. C. (2017). Study Of The Cutting Forces And Specific Cutting Resistance From The Point Of View Of The Cutting Direction Relative To Stratification Of The Coal Seam. <i>Annals of the University of Petrosani Mechanical Engineering</i> , 19.	=4/4	1
				Tomuş, O. B. (2016). Study Regarding The Specific Energy Consumption Used During Lignite And Overburden Rock Excavation In Jilt Open-Pit Mine. <i>Annals of the University of Petrosani Mechanical Engineering</i> , 18.	=4/4	1
				Articol citat: Dinescu, S., Andraş, A. , <i>Environmental Friendly Equipment and Technology for Underground Civil Excavations</i> , Annals Of The University Of Petrosani, Mechanical Engineering, Vol. 10 (XXXVII) 2008, pag. 47-52; ISSN: 1454-9166 (revistă categoria B+, cod CNCIS 26; Indexată în Ulrich's Periodicals Directory, EBSCO Publishing Inc., Columbia University Libraries, SCIRIUS, Periodicals.ru, Suweco http://upet.ro/annals/mechanical		
				Cozma, B. Z., Urdea, G. B., & Dumitrescu, I. (2017). <i>Stand For The Rotative Boring Of Rock Salt. Annals of the University of Petrosani Mechanical Engineering</i> , 19.	=4/2	2
				Dingxiang Zou, <i>Other Underground Excavation Methods. In: Theory and Technology of Rock Excavation for Civil Engineering</i> pp 473-482, ISBN 978-981-10-1988-3, Online ISBN: 978-981-10-1989-0, Springer Publishing, Singapore. DOI: 10.1007/978-981-10-1989-0	=4/2	2
				Zhang Y., Li J., Rao P., <i>Elastic Stress Analytic of the Circular Cavity Expansion Under the Slope</i> , Engineering Mechanics, Apr. 2013. http://or.nsf.gov.cn/bitstream/00001903-5/297574/1/1000009554812.pdf	=4/2	2
		3.2. Prezentări invitate în plenul unor manifestări științifice naționale și internaționale și Profesor invitat (excl. ERASMUS)	Punctaj unic pentru fiecare activitate	3.2.1. internaționale		
				Invited speaker, XI International Conference, MINIG TECHNIQUES „TUR 2019”, Krynica Zdrój, 17 ÷ 20 September 2019		10
		3.3 Membru în colectivele de redacție sau comitete științifice al revistelor și manifestărilor științifice, organizator de manifestări științifice, Recenzor pentru reviste și manifestări	Punctaj unic pentru fiecare activitate	3.3.1. ISI		
				<i>Editor Machines Special Issue "Motion Optimization of Mechanical Structures" Q2</i>		10
				<i>Applied Sciences- Basel</i> (ISSN 2076-3417); Impact Factor: 2.679 Q2/Q3		10
				<i>Processes</i> (ISSN 2227-9717); Impact Factor: 2.846 Q3		10
				<i>Actuators</i> (ISSN 2076-0825); Impact Factor: 1.994 Q3		10
				<i>Energies</i> (ISSN 1996-1073); Impact Factor: 3.004 Q3		10
				<i>Symmetry-Basel</i> (ISSN 2073-8994); Impact Factor: 2.713 Q2		10
				<i>Acta Montanistica Slovaca</i> (ISSN 1996-1073); Impact Factor: 1.413 Q3/Q4		10
				<i>Scientific Reports</i> (ISSN 2045-2322); Impact Factor: 4.997 Q2		10
				<i>Rudarsko-geološko-naftni zbornik</i> (ISSN 0353-4529); Impact Factor: 0.42 Q3		10
				<i>Mechanics Based Design of Structures and Machines</i> (ISSN 1539-7734); I.F: 4.37 Q1		10
				3.3.2 BDI		

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	științifice naționale și internaționale		2018-2021 – Deputy Editor, Annals Of The University Of Petrosani, Mechanical Engineering, (revistă categoria B+, cod CNCISIS 26		6
			2012- 2016 – Editor Secretary, Annals Of The University Of Petrosani, Mechanical Engineering, (revistă categoria B+, cod CNCISIS 26		6
			2020-2021 – Managing Editor, Revista Minelor / Mining Revue, (B+ / Sciendo)		6
			Recenzor jurnal World Electric Vehicle Journal (Scopus)		6
			Rewiever International Symposium on Occupational Health and Safety, SESAM 2019, 2021		6
			Rewiever "UNIVERSITARIA SIMPRO", 2020, 2021, 2022		6
			National scientific committee, "UNIVERSITARIA SIMPRO 2021"		6
	3.4 Experienta de management	3.4.1. Experiență managerială de conducere 5*nr ani	Prodecan (2022-2024)	5*3	15
			Director al Centrului de Presă și Imagine al Universității din Petroșani (2017-2022)	5*6	30
		3.4.2 Membru organisme conducere 2*nr ani	Membru Senat (2017-2020 și 2022-2024)	3*6	18
			Membru Consiliul Facultății IME (2022-2024)	3*6	18
	3.5. Premii	3.5.4 Premii naționale în domeniu (10 puncte/activitate)	Premierea rezultatelor cercetării PN-IV-P2-2.3-PRECISI-2023-73290 Premierea rezultatelor cercetării PN-IV-P2-2.3-PRECISI-2023-72733 Premierea rezultatelor cercetării PN-IV-P2-2.3-PRECISI-2023-70995 Premierea rezultatelor cercetării PN-III-P1-1.1-PRECISI-2021-56139 Premierea rezultatelor cercetării PN-III-P1-1.1-PRECISI-2020-50466	5*10	50
	3.6. Membru in academii, organizatii, asociatii profesionale de prestigiu, nationale si internationale,	3.6.4 Asociatii profesionale	3.6.4.1. internationale		
			- IAENG Society of Industrial Engineering	10	20
			- IAENG Society of Mechanical Engineering	10	
			3.6.4.2 nationale		
	- AGIR – Asociația Generală a Inginerilor din România	5			
	- ALUMNI – Asociația Absolvenților Universității din Petroșani	5			
	- ACM-V - Asociația pentru Cercetare Multidisciplinară din Zona de Vest a României	5			
	- EMT - Asociația Societatea Maghiară Tehnico-Științifică Din Transilvania-EMT	5			
	- ARMR – Asociația Română de Mecanica Ruperii	5			
PUNCTAJ TOTAL PE ACTIVITATEA A3 REALIZAT					452,91
PUNCTAJ TOTAL PE ACTIVITATEA A3 IMPUS					70

Notă: ³⁰ bazele de date internaționale (BDI) luate în considerare pentru articolele publicate în volumele unor manifestări științifice cu excepția articolelor publicate în reviste cotate ISI, sunt cele recunoscute pe plan științific internațional precum (**nelimitativ**): Scopus, IEEE Xplore, Science Direct, Elsevier, Wiley, ACM, DBLP, Springerlink, Engineering Village, Cabi, Emerald, CSA, Compendex, INSPEC.,

Petroșani, 07 noiembrie 2024

Întocmit,
Prof.univ.habil.dr. ing. Andraș Andrei

2. Formula de calcul a indicatorului de merit ($A=A1+A2+A3$),

$$A = \sum_i k_{1i} + \sum_i k_{2i} + \sum_i k_{3i}$$

unde k_{pi} = Indicele specific titlului de categorie de activitate

<i>Domeniul de activitate</i>	<i>Condiții minime abilitare</i>	<i>Punctaj total obținut</i>
<i>Activitate didactică și profesională A1</i>	<i>Minimum 120 puncte</i>	<i>516,86</i>
<i>Activitate de cercetare A2</i>	<i>Minimum 260 puncte</i>	<i>1165,75</i>
<i>Recunoașterea și impactul activității A3</i>	<i>Minimum 70 puncte</i>	<i>452,91</i>
Total	Minimum 450 puncte	2135,52

Petroșani, 07 noiembrie 2024

Întocmit,
Prof.univ.habil.dr. ing. Andraș Andrei