FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR MINIMALE OBLIGATORII – ABILITARE

Nume și prenume candidat: **Chiriță Bogdan - Alexandru**
Grad didactic: Conf. dr. ing.
Domeniul de abilitare: Inginerie industrială
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A1. ACTIVITATEA DIDACTICĂ ȘI PROFESIONALĂ

Punctaj minim 130 puncte

Punctaj realizat 304,72 puncte

A1.1. Cărți și capitole în cărți de specialitate
A1.1.1. Cărți/manuale/monografii/capitole de specialitate ca autor – **Profesor minim 2 prim autor**

Nr. crt.	Titlu / ISBN	Autori	Editura	Anul	Nr. pagini	Punctaj
1.1.1.1. Internaționale						
1	**Unic autor** **Cap. 3 Modeling and Optimization Process in Milling (pg. 83-112)** Carte: Modeling and Optimization in Manufacturing: Toward Greener Production by Integrating Computer Simulation edited by Catalin I. Pruncu & Jun Jiang, ISBN: 978-3-527-34694-3 https://doi.org/10.1002/9783527825233.ch3	**Chiriță Bogdan**	Wiley-VCH GmbH, Weinheim - Germany	2021	30 pg.	30/5 = **6**
1.1.1.2. Naționale (edituri recunoscute)						

1	**Prim autor** **Prelucrarea metalelor. Operații și scule de prelucrare** ISBN 978-606-527-419-8	**Chiriță Bogdan,** Brabie Gheorghe	Ed. Alma Mater, Bacău	2014	204 pg.	204/(10*2) = **10,2**
2	Mașini unelte. Construcție și exploatare ISBN 978-606-527-420-4	Brabie Gheorghe, **Chiriță Bogdan**	Ed. Alma Mater, Bacău	2014	223 pg.	223/(10*2) = **11,15**
3a	*Cap. 2 Fenomene de instabilitate ce apar după procesul de deformare plastică (pg. 33-112)* Carte: Deformarea plastica la rece a tablelor metalice. Fenomene de instabilitate a formei si dimensiunilor pieselor, ISBN 973-37-1098-9	**Autori capitol:** G. Brabie, **B. Chiriță** Autori carte: Brabie Gheorghe, Schnakovszky Carol, **Chiriță Bogdan**, Axinte Crina, Chirilă Ciprian	Ed. Junimea, Iași	2005	**Capitol: 80 pg.** Carte: 218 pg.	80/(10*2) = **4**
3b	***Prim autor:*** ***Cap. 4 Metode și soluții tehnice de diminuare sau eliminarea efectelor fenomenelor de instabilitate (pg. 165-209)*** Carte: Deformarea plastica la rece a tablelor metalice. Fenomene de instabilitate a formei si dimensiunilor pieselor, ISBN 973-37-1098-9	Autori capitol: **B. Chiriță,** C. Axinte, C. Chirilă Autori carte: Brabie Gheorghe, Schnakovszky Carol, **Chiriță Bogdan**, Axinte Crina, Chirilă Ciprian	Ed. Junimea, Iași	2005	**Capitol: 45** pg. Carte: 218 pg.	45/(10*3) = **1,5**
4a	*Cap. 4 Determinarea experimentală a tensiunilor reziduale (pg. 95-164)*	Autori capitol: C. Schnakovszky, **B. Chiriță,** C. Chirilă, C. Axinte	Ed. Junimea, Iași	2005	**Capitol: 70 pg.**	70/(10*4) = **1,75**

	Carte: Tensiuni rezidual generate de procesele de transformare a materialelor metalice, ISBN 973-37-1097-0	Autori carte: Brabie Gheorghe, Schnakovszky Carol, **Chiriță Bogdan**, Chirilă Ciprian, Axinte Crina			Carte: 212 pg.	
4b	***Prim autor:*** ***Cap. 5 Determinarea prin simulare a distribuției tensiunilor reziduale (pg. 165-203)*** Carte: Tensiuni rezidual generate de procesele de transformare a materialelor metalice ISBN 973-37-1097-0	Autori capitol: **B. Chiriţă,** C. Axinte, C. Chirilă Autori carte: Brabie Gheorghe, Schnakovszky Carol, **Chiriță Bogdan**, Chirilă Ciprian, Axinte Crina	Ed. Junimea, Iași	2005	**Capitol: 39 pg.** Carte: 212 pg.	39/(10*3) = **1,3**
5	**Mașini-unelte. Caracteristici de calitate** ISBN 973-8130-35-2 ISBN 973-27-0928-6	Brabie Gheorghe, Mohora Cristina, **Chiriță Bogdan**	Ed. Agir, București Ed. Academiei Române București	2002	268 pg.	268/(10*3) = **8,93**
Total						**44,83**

A1.1.2. Cărți ca editor

Nu este cazul

A1.2. Alte materiale didactice inclusiv în format electronic

A1.2.1. Suporturi de curs / îndrumare – **Profesor minimum 4 din care 2 prim autor**

Nr. crt.	**Titlu / ISBN**	**Autori**	**Editura**	**Anul**	**Nr. pagini**	**Punctaj** Nr pagini / (20*nr. autori)
1	**Sisteme flexibile de fabricație. Note de curs si aplicații** ISBN 978-973-1833-45-3	**Chiriță Bogdan**	Ed. Alma Mater, Bacău	2007	162	162/(20*1) = **8,1**

2	**Creativitatea tehnică. Elemente de teorie si aplicații** ISBN 978-973-1833-45-6	Brabie Gheorghe, **Chiriță Bogdan**	Ed. Alma Mater, Bacău	2007	107	107/(20*2) = **2,67**
3	**Elemente de logistica industriala. Note de curs**	Brabie Gheorghe, **Chiriță Bogdan**	Editura Universității din Bacău	1999	105	105/(20*2) = **2,62**
4	**Mașini unelte. Îndrumar de laborator** ISBN 978-973-1833-46-0	**Chiriță Bogdan,** Brabie Gheorghe	Ed. Alma Mater, Bacău	2007	75	75/(25*2) = **1,5**
Total						**14,89**

A1.3. Coordonare programe de studii, organizare și coordonare programe de formare continuă și proiecte educaționale

Nr. crt.	Program de studii	Ciclu de studii	Punctaj
1	**Strategii în asigurarea calității în industrie**	**Masterat**	15
Total			**15**

A1.4. Dezvoltare de noi discipline - Titular 10 puncte

Nr. crt.	Denumire disciplină	Program de studii	Ciclu de studii	Punctaj
1	Sisteme moderne de fabricație	Tehnologia construcțiilor de mașini Inginerie economică în domeniul mecanic	*Licență*	*10*
2	Managementul inovarii produselor si proceselor	Managementul fabricației produselor industriale	Master	10
3	Fabricarea pieselor din mase plastice și compozite	Tehnologia construcțiilor de mașini Inginerie economică în domeniul mecanic	Licență	10
4	Bazele așchierii și generării suprafețelor și scule așchietoare	Tehnologia construcțiilor de mașini Design industrial Ingineria și managementul calității	Licență	10

5	Dispozitive tehnologice	Tehnologia construcțiilor de mașini Design industrial Ingineria și managementul calității	Licență	10
Total				**50**

A1.5. Proiecte educaționale (Erasmus, Leonardo etc.) – Director/responsabil 10*(nr. ani de desfășurare)

Nr. crt.	**Tipul de proiect**	**Durata**	**Punctaj**
1	Program Erasmus cu Universitatea din Limoges, IUT Limoges, Franța	3 an	3*10 = **30**
2	Program Erasmus cu Universitatea Artois din Bethune, Franța	5 an	5*10 = **50**
3	Program Erasmus cu Universitatea din Porto, Portugalia	5 an	5*10 = **50**
4	Program Erasmus cu Universitatea din Ancona, Italia	5 ani	5*10 = **50**
Total			**180**

A2. ACTIVITATEA DE CERCETARE

Punctaj minim 300 puncte

Punctaj realizat: 760,15 puncte

A2.1. Articole indexate în reviste ISI Thomson Reuters și în volume unor manifestări științifice indexate ISI Thomson Reuters, vizibile în baza de date– **pentru Profesor minim 8 articole din care 3 în reviste, minimum 3 ca autor principal, minimum 1 articol în zona roșie sau galbenă**

Nr. crt.	Titlul articolului	Autori	Publicația	Anul	Punctaj
1	**Adaptive Stretch-Forming Process: A Computer Vision and Statistical Analysis Approach** **Tip document: Articol** DOI: 10.3390/machines9120357 WOS:000738673200001 **Zona roșie/galbenă**	Grigoras CC, Zichil V, **Chirita B**, Ciubotariu VA	Machines vol. 9, iss. 12, art. nr. 357 ISSN 2075-1702 **FI: 2,899 (2021)**	2021	(30+10*2,899)/4= **14,74**
2	A theoretical study regarding the influence of carbon amount on residual stress distribution in surface layer **Tip document: Articol** WOS:000634769100008	NC Tampu, RI Tampu, **BA Chirita**, E Herghelegiu	Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry, Volume 22, No. 1, pp. 081-088 ISSN 1582-540X FI: -	2021	30/4 = **7,5**
3	The analysis of high-pressure water jet cutting of thick aluminium alloy 6061-T651 from a statistical perspective **Tip articol: proceeding paper** DOI: 10.1088/1757-899X/916/1/012043 WOS:000625330000043	CC Grigoraș, **B Chiriță**, G Brabie, V Zichil, E Herghelegiu, C Tâmpu, C Ciofu, C Iancu	IOP Conf. Series: Materials Science and Engineering, 916, 012043 ISSN: 1757-899X	2020	25/8 = **3,12**

4	Influence of cutting parameters on surface hardness in milling of AL6061T6 **Tip articol: proceeding paper** DOI: 10.1088/1757-899X/916/1/012118 WOS:000625330000118	C Tampu, **B Chirita**, I Cristea, V Zichil, C Schnakovszky, E Herghelegiu, C Carausu	IOP Conf. Series: Materials Science and Engineering, 916, 012118 ISSN: 1757-899X	2020	25/7 = **3,57**
5	Evaluation of the corrosion inhibition potential of raphanus sativus and spinacia oleraceea extracts part II: mild steel corrosion inhibition by raphanus sativus and spinacia oleracea extracts as green corrosion inhibitors **Tip document: Articol** WOS:000577523900010	NC Tampu, RI Tampu, OI Patriciu, **BA Chiriță**, L Gavrilă	Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry, Volume 21, No. 3, pp. 435-444 ISSN 1582-540X FI: -	2020	30/5 = **6**
6	Analysis of cutting forces and surface quality during face milling of a magnesium alloy **Tip articol: proceeding paper** doi: 10.1088/1757-899X/591/1/012006 WOS:000562929900006	**B. Chirita,** C. Grigoras, C. Tampu, E. Herghelegiu	Conf. Series: Materials Science and Engineering 591, 012006 ISSN: 1757-899X	2019	25/4 = **6,25**
7	Additive manufacturing of a stretch forming die using 3D printing technology **Tip articol: proceeding paper** doi: 10.1088/1757-899X/564/1/012017 WOS:000562599900017	C. Grigoraș, **B. Chiriță**, G. Brabie	IOP Conf. Series: Materials Science and Engineering 564, 012017 ISSN 1757-8981	2019	25/3 = **8,33**
8	Study on the influence of the working regime on the quality of cut in the case waterjet processing of S 235 steel **Tip articol: proceeding paper** doi:10.1088/1757-899X/591/1/012019 WOS:000562929900019	E Herghelegiu, MC Radu, C Schnakovszky, **BA Chirita**, NC Tampu	IOP Conf. Series: Materials Science and Engineering 591, 012019 ISSN 1757-8981	2019	25/5= **5**
9	Optimization of working parameters in case of aluminium alloy abrasive water jet cutting (AWJC)	Schnakovszky C., Herghelegiu E., Radu	IOP Conference Series-Materials Science and	2018	25/5= **5**

	Tip articol: proceeding paper DOI: 10.1088/1757-899X/400/2/022052 WOS:000461147400052	M.C., **Chirita B.A.**, Tampu N.C.	Engineering, Volume: 400, Article Number: 022052 ISSN: 1757-8981		
10	Comparison Between Cemented Carbide and PCD Tools on Machinability of a High Silicon Aluminum Alloy **Tip document: Articol** DOI: 10.1007/s11665-017-2870-9 WOS:000411202500050	R. B. Soares, A. M. P. de Jesus, R. J. L. Neto, **B. Chirita**, P. A. R. Rosa, A. Reis	Journal of Materials Engineering and Performance Volume 26, Issue 9, pp 4638–4657 ISSN: 1059-9495 **FI: 1.331 (2016)**	2017	(30+10*1,331)/6= **7,21**
11	Experimental Investigations to evaluate the effects of cutting parameters on cutting temperature and residual stresses during milling process of the AISI 1045 **Tip articol: proceeding paper** DOI: 10.1088/1757-899X/227/1/012001 WOS:000409221600001	Abdelkrim M, Brabie G, Belloufi A, Tampu C, **Chirita B.**	IOP Conference Series: Materials Science and Engineering, vol. 227, iss. 1 Article Number: UNSP 012001 ISSN: 1757-8981	2017	25/5= **5**
12	Experimental investigation on the effects of cooling system on surface quality in high speed milling of an aluminium alloy **Tip articol: proceeding paper** **DOI:** 10.1088/1757-899X/145/2/022006 WOS:000396437600006	**B Chirita**, NC Tampu, G Brabie, MC Radu	IOP Conference Series-Materials Science and Engineering, Volume: 145 Article Number: 022006 ISSN: 1757-8981	2016	25/4= **6,25**
13	The influence of milling-burnishing successive and simultaneous processes on the surface roughness **Tip articol: proceeding paper** doi:10.1088/1757-899X/145/2/022010 WOS:000396437600010	CC Grigoraș, G Brabie**, B Chirita**	IOP Conference Series: Materials Science and Engineering, vol. 145 Article Number: 022010 ISSN: 1757-8981	2016	25/3= **8,33**
14	The influence of milling-burnishing successive and simultaneous processes on the material hardness	CC Grigoraș, G Brabie, **B Chirita**	IOP Conference Series: Materials Science and Engineering, vol. 145	2016	25/3= **8,33**

	Tip articol: proceeding paper doi:10.1088/1757-899X/145/2/022009 WOS:000396437600009		Article Number: 022009 ISSN: 1757-8981		
15	Determination of the optimal time and cost of manufacturing flow of an assembly using the Taguchi method **Tip articol: proceeding paper** doi:10.1088/1757-899X/145/2/062009 WOS:000396437600114	S Petrila, G Brabie, **B Chirita**	IOP Conference Series: Materials Science and Engineering, vol. 145 Article Number: 062009 ISSN: 1757-8981	2016	25/3= **8,33**
16	The use of Tecnomatix software to simulate the manufacturing flows in an industrial enterprise producing hydrostatic components **Tip articol: proceeding paper** doi:10.1088/1757-899X/145/2/042032 WOS:000396437600084	S Petrila, G Brabie, **B Chirita**	IOP Conference Series: Materials Science and Engineering, vol. 145 Article Number: 042032 ISSN: 1757-8981	2016	25/3= **8,33**
17	Minimization of sheet thickness variation and other defects of mini drawn parts using a blank holder plate made from concentric rings **Tip document: Articol** doi:10.1016/j.precisioneng.2015.03.011 WOS:000359173400032 **Zona roșie/galbenă**	G. Brabie, **B. Chirita**, A. Albut	Precision Engineering Vol. 42, October 2015, Pages 311–320 ISSN: 0141-6359 **FI: 1.914 (2015)**	2015	(30+10*1,914)/3= **16,38**
18	A statistical analysis applied for optimal cooling system selection and for a superior surface quality of machined magnesium alloy parts **Tip document: Articol** DOI: 10.1177/0954405414530895 WOS:000350495300002	**Bogdan Chirita**, Gheorghe Mustea, Gheorghe Brabie	Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture Vol. 229, iss. 3, pp. 392-408 ISSN 0954-4054 **FI: 0.978 (2015)**	2015	**(30+10*0,978)/3=** **13,26**

19	Influence of the cooling liquid on surface quality characteristics in milling **Tip articol: proceeding paper** DOI: 10.1088/1757-899X/95/1/012024 WOS:000365128900024	Tampu, NC Brabie, G Chirita, BA Herghelegiu, E Radu, MC	Book Series: IOP Conference Series-Materials Science and Engineering Volume: 95 Article Number: 012024 ISSN: 1757-8981	2015	25/5= **5**
20	Study of Residual Stresses Distribution Generated from Milling of Magnesium Alloy Parts **Tip articol: proceeding paper** DOI: 10.4028/www.scientific.net/AMM.657.18 WOS:000348898000004	**CHIRITA Bogdan Alexandru,** TAMPU Nicolae Catalin	Applied Mechanics and Materials vol. 657, pp. 18-22 ISSN 1660-9336	2014	**25/2=** **12,5**
21	Determination of Optimal Working Parameters of the Combined Burnishing – Turning Process by Applying the Method of Response Surfaces **Tip articol: proceeding paper** DOI: 10.4028/www.scientific.net/AMM.657.98 WOS:000348898000020	**CHIRITA Bogdan**, BRABIE Gheorghe, MUSTEA Gheorghe	Applied Mechanics and Materials, vol. 657, pp. 98-102, ISSN 1660-9336	2014	25/3= **8,33**
22	Residual Stresses Generated by the Combined Burnishing – Cutting Process in the Worked Parts **Tip articol: proceeding paper** DOI: 10.4028/www.scientific.net/AMM.657.103 WOS:000348898000021	BRABIE Gheorghe, MUSTEA Gheorghe, **CHIRITA Bogdan**	Applied Mechanics and Materials, vol. 657, pp. 103-107 ISSN 1660-9336	2014	25/3= **8,33**
23	Reduction of the sheet thickness variation and its negative effects on the accuracy of mini drawn parts using different geometries of tool components **Tip document: Articol** DOI: 10.1016/j.precisioneng.2014.04.011 WOS:000341219400014 **Zona roșie/galbenă**	G. Brabie, E.M. Costache, **B. Chirita**	Precision Engineering vol. 38, iss. 4, pp. 828-838 ISSN: 0141-6359 **FI: 1.517 (2014)**	2014	(30+10*1,517)/3 = **15,05**

24	Influence of the cutting regime on the residuual stresses generated by carbon steel milling **Tip document: Articol** Accession Number: WOS:000339305400007	N. C. Tâmpu, **B. Chiriţă**, E. Herghelegiu, G. Brabie	Indian Journal of Engineering & Materials Sciences vol. 21, iss. 3, pp. 283-288 ISSN 0971-4588 **FI: 0.413 (2014)**	2014	(30+10*0,413)/4 = **8,53**
25	Analysis of Surface Roughness for High Speed Milling of a Magnesium Alloy Part **Tip document: ISI Proceeding paper** DOI: 10.4028/www.scientific.net/AMR.837.33 WOS:000337000500007	**Chirita B.A.**, Tampu N.C.	Advanced Materials Research vol. 837, pp 33-38 ISSN: 1662-8985	2014	25/2 = **12,5**
26	Prediction and prevention of material cracking in the case of micro or milli drawn parts made from aluminium foils **Tip document: Articol** DOI: 10.1016/j.ijmecsci.2013.02.001 WOS:000318139900012 **Zona roşie/galbenă**	Costache, E. M., Nanu, N., **Chirita, B.**, Brabie, G	International Journal of Mechanical Sciences vol. 69, pp. 125-140 ISSN 0020-7403 **FI: 2.061 (2013)**	2013	(30+10*2,061)/4 = **12,65**
27	Prediction and minimisation of sheet thickness variation during deep drawing of micro/milli parts **Tip document: Articol** DOI: 10.1016/j.ijmecsci.2013.01.028 WOS:000316974800025 **Zona roşie/galbenă**	Brabie, G., Costache, E. M., Nanu, N., **Chirita, B.**	International Journal of Mechanical Sciences vol. 68, pp. 277-290 ISSN 0020-7403 **FI: 2.061 (2013)**	2013	(30+10*2,061)/4 = **12,65**
28	The Effect of Residual Stresses on the Accuracy of Parts Processed by SPIF **Tip document: Articol** DOI: 10.1080/10426914.2013.763967 WOS:000318346700013	Radu Crina, Tampu Catalin, Cristea Ion, **Chiriță Bogdan**	Materials and Manufacturing Processes vol. 28, iss. 5, pp. 572-576 ISSN 1042-6914 **FI: 1.486 (2013)**	2013	(30+10*1,486)/4 = **11,21**
29	Spring-back of Pre-strained High Strength Steel Stripes	Chirita B.	Applied Mechanics and Materials	2013	25/1 = **25**

	Tip document: ISI Proceeding paper DOI: 10.4028/www.scientific.net/AMM.371.333 WOS:000334556900065		vol. 371, pp 333-337 ISSN 1660-9336		
30	Influence of the Temperature and Mechanical Stresses Generated by Milling Process in Machined Part Surfaces on their Accuracy **Tip document: ISI Proceeding paper** DOI: 10.4028/www.scientific.net/AMM.371.59 WOS:000334556900012	TAMPU Nicolae Cătălin, RADU Maria Crina, **Chirita Bogdan**	Applied Mechanics and Materials Vol. 371, pp 59-63 ISSN 1660-9336	2013	25/3 = **8,33**
31	Effect of pre-straining on springback of sheet metals in U-bending **Tip document: ISI Proceeding paper** Accession Number: WOS:000392260500051	Chirita B.	Proceedings of The 15th International Conference Modern Technologies, Quality and Innovation ModTech 2011, Volume I **Pages:** 201-204 ISSN 2069-6736	2011	25/1= **25**
32	Influence of residual stress distribution in sheet metal forming **Tip document: ISI Proceeding paper** Accession Number: WOS:000282604000043	Chirita Bogdan	Proceedings of the International Conference ModTech, 14th International Conference on Modern Technologies, Quality and Innovation (ModTech 2010) pp. 183-186 ISSN 2066-3919	2010	25/1 = **25**
33	Analysis of the springback and residual stresses generated by cold plastic forming in drawn round parts made from steel sheets **Tip document: Articol** Accession Number: WOS:000270922700004	Brabie G., **Chirita B.**, Nanu N., Ciubotariu V.	Metalurgia International vol. 14, no. 12, p. 21-27 ISSN 1582-2214 **FI: 0 (2008)**	2009	(30+10*0)/4 = **7,5**
Total					**320,18**

A2.2 . Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale – **minim 8 pentru profesor**

Nr. crt.	Titlul articolului	Autori	Publicația	Indexare BDI	Punctaj 15/(nr. autori)
1.	High-pressure water jet cutting of S235JR steel alloy. Influence of process parameters on dimensional accuracy DOI: 10.1088/1757-899X/1182/1/012027	CC Grigoraș, **B Chiriță**, G Brabie, V Zichil, E Herghelegiu, C Tâmpu, VA Ciubotariu	IOP Conf. Series: Materials Science and Engineering, volume 1182, 2021, 012027 Online ISSN: 1757-899X Print ISSN: 1757-8981	SCOPUS, Google Academic	15/7 = **2,14**
2.	Influence of process parameters on the AWJ cutting of the AL-EN AW 2017A (T4) aluminium alloy DOI: 10.1088/1757-899X/1009/1/012048	MC Radu, C Schnakovszky, **BA Chirita**, NC Tampu, VA Ciubotariu, E Herghelegiu	IOP Conf. Series: Materials Science and Engineering, volume 1009, 2021, 012048 Online ISSN: 1757-899X Print ISSN: 1757-8981	SCOPUS, Google Academic	15/6 = **2,5**
3.	Modelling and optimization of magnesium alloy milling parameters DOI: 10.54684/ijmmt.2021.13.3.29	**B Chirita**, C Tampu, E Herghelegiu, C Grigoras	International Journal of Modern Manufacturing Technologies, vol. XIII, no. 3, pp. 29-36, 2021 ISSN 2067-3604	SCOPUS; INDEX COPERNICUS; IET-INSPEC; GOOGLE SCHOLAR;CHINA NATIONAL KNOWLEDGE INFRASTRUCTURE (CNKI).	15/4 = **3,75**
4.	Stretch forming using heated die	CC Grigoraș, **B Chirita**, V Zichil, E Herghelegiu, C Tampu, V Ciubotariu	Journal of Engineering Studies and Research, vol 27, nr. 4, pp. 24-29, 2021 ISSN 2068-7559	Index Copernicus, CSA, ProQuest, ERIH PLUS, Google Academic	15/6 = **2,5**
5.	A Python and Java software approach for 2.5 axes, self-adaptive stretch forming process and IoT solution DOI: 10.1088/1757-899X/968/1/012029	C C Grigoraș, **B Chirita**, G Brabie	IOP Conf. Series: Materials Science and Engineering, volume 968, 2020, 012029 Online ISSN: 1757-899X Print ISSN: 1757-8981	SCOPUS, Google Academic	15/3 = **5**

6.	Fracture Investigation in Draw Bending of AZ31B Sheets using Fuzzy Logic Prediction DOI: 10.1016/j.promfg.2020.04.323	C. Ciofu, C. Grigoras, **B.A. Chirita,** C.A. Iancu, G. Brabie	Procedia Manufacturing, Volume 47, Pages 1462-1467, 2020 ISSN 2351-9789	INSPEC	15/5= **3**
7.	Optimization of turning parameters using an algortim based on combined linear and binary search methods DOI: 10.29081/jesr.v26i1.351	D.G. Prutica, G. Brabie, **B. Chirita**	Journal of Engineering Studies and Research, vol. 26, no. 1, pp. 66-72, 2019 ISSN 2068-7559	Index Copernicus, CSA, ProQuest, ERIH PLUS, Google Academic	15/3= **5**
8.	Automated cutting tools selection for bearings components turning process DOI: 10.29081/jesr.v26i1.352	D.G. Prutica, G. Brabie, **B. Chirita**	Journal of Engineering Studies and Research, vol. 26, no. 1, pp. 73-79, 2019 ISSN 2068-7559	Index Copernicus, CSA, ProQuest, ERIH PLUS, Google Academic	15/3= **5**
9.	Experimental analysis of AZ31B magnesium alloy sheet failure using punch stretching doi: 10.1088/1757-899X/682/1/012009	C. Grigoras, **B. Chirita**, G. Brabie, C. Ciofu	IOP Conf. Series: Materials Science and Engineering 682, 012009, 2019 Online ISSN: 1757-899X Print ISSN: 1757-8981	SCOPUS, Google Academic	15/4= **3,75**
10.	Tendencies in forming sheet metal parts using incremental forming advanced technologies	C. Ciofu, **B. Chirita**, R. Lupu, C. Grigoraș, C. Radu, G. Brabie	Journal of Engineering Studies and Research, vol. 25, no. 3, pp. 15-21, 2019 ISSN 2068-7559	Index Copernicus, CSA, ProQuest, ERIH PLUS, Google Academic	15/6= **2,5**
11.	Equipment for Testing the Worm and Worm Gear Assembly From "Liquid Wood" and Comparative MEF Analyses	C. Ciofu, C. Carausu, S.N. Mazurchevici, V. Paunoiu, **B. Chirita**	International Journal of Modern Manufacturing Technologies, vol. X, No. 2, pp. 45-50, 2018 ISSN 2067–3604	SCOPUS; INDEX COPERNICUS INTERNATIONAL; IET-INSPEC; GOOGLE SCHOLAR	15/5= **3**
12.	Experimental research concerning the bending of AZ31 magnesium alloy sheets	A.D. Borș, G. Brabie, **B. Chirita**	Proceedings in Manufacturing Systems, vol. 12, iss. 3, pp. 95-100, 2017 ISSN 2067-9238	ProQuest, Index Coperinicus, ULRICHSWEB Global Serials Directory, Google Scholar	15/3= **5**

13.	Residual stresses generated at roughing grinding and hard turning of raceways of bearing rings	Iurea P., Cărăușu C-tin, Târnpu C., **Chirita B.**, Hușanu V.	International Journal of Modern Manufacturing Technologies, vol. VIII, nr. 2, pp. 19-24, 2016 ISSN 2067-3604	SCOPUS; INDEX COPERNICUS INTERNATIONAL; IET-INSPEC; GOOGLE SCHOLAR	15/5= **3**
14.	The impact of cooling system on surface quality in milling **doi: 10.4028/www.scientific.net/AMM.809-810.135**	**Chirita Bogdan Alexandru**, Târnpu Nicolae Cătălin	Applied Mechanics and Materials, vol. 809-810, pp. 135-140, 2015 ISSN: 1662-7482	SCOPUS, Ei Compendex (CPX), Cambridge Scientific Abstracts (CSA), Chemical Abstracts (CA), Google and Google Scholar, ISI (ISTP, CPCI, Web of Science), Institution of Electrical Engineers (IEE)	15/2= **7,5**
15.	Influence of Inserts Number on Surface Quality in Milling **doi:10.4028/www.scientific.net/AMM.809-810.177**	Târnpu Nicolae Cătălin, Brabie Gheorghe, **Chirita Bogdan Alexandru**	Applied Mechanics and Materials, vol. 809-810, pp. 177-182, 2015 ISSN: 1662-7482	SCOPUS, Ei Compendex (CPX), Cambridge Scientific Abstracts (CSA), Chemical Abstracts (CA), Google and Google Scholar, ISI (ISTP, CPCI, Web of Science), Institution of Electrical Engineers (IEE)	15/3= **5**
16.	Minimization of Sheet Thickness Variation and other Defects of the Mini Drawn Parts Using the Genetic Algorithms Method **doi:10.4028/www.scientific.net/AMM.809-810.241**	G. Brabie, **B. Chirita**	Applied Mechanics and Materials, vol. 809-810, pp. 241-246, 2015 ISSN: 1662-7482	SCOPUS, Ei Compendex (CPX), Cambridge Scientific Abstracts (CSA), Chemical Abstracts (CA), Google and Google Scholar, ISI (ISTP, CPCI, Web of Science), Institution of Electrical Engineers (IEE)	15/2= **7,5**
17.	Analysis of the sheet wrinkling variation and causes in the case of mini drawn parts **doi:10.4028/www.scientific.net/AMM.809-810.247**	G. Brabie, **B. Chirita**	Applied Mechanics and Materials, vol. 809-810, pp. 241-246, 2015 ISSN: 1662-7482	SCOPUS, Ei Compendex (CPX), Cambridge Scientific Abstracts (CSA), Chemical Abstracts (CA), Google and Google Scholar, ISI (ISTP, CPCI, Web of Science), Institution of Electrical Engineers (IEE)	15/2= **7,5**
18.	Influence of the tool clearances on the dimensional accuracy of mini drawn parts	BRABIE Gheorghe, **CHIRITA Bogdan**,	Advanced Materials Research, vol. 1036, pp. 309-313, 2014 ISSN:1662-8985	SCOPUS, Ei Compendex (CPX), Cambridge Scientific Abstracts (CSA), Chemical Abstracts (CA), Google and	15/4 = **3,75**

	doi: 10.4028/www.scientific.net/AMR.1036.309	COSTACHE Elena, TEACA Stefan		Google Scholar, ISI (ISTP, CPCI, Web of Science), Institution of Electrical Engineers (IEE)	
19.	Determination of the Optimal Blank Diameter in the Case of Mini Deep Drawing by Applying the Fuzzy Logic and Taguchi Methods **doi: 10.4028/www.scientific.net/AMR.1036.304**	BRABIE Gheorghe, **CHIRITA Bogdan**, COSTACHE Elena, TEACA Stefan	Advanced Materials Research, vol. 1036, pp. 304-308, 2014 ISSN:1662-8985	SCOPUS, Ei Compendex (CPX), Cambridge Scientific Abstracts (CSA), Chemical Abstracts (CA), Google and Google Scholar, ISI (ISTP, CPCI, Web of Science), Institution of Electrical Engineers (IEE)	15/4 = **3,75**
20.	Methods of optimisation of sheet metal forming processes concerning the reduction of springback	Chirita B.	The Annals of "Dunarea de Jos" University Galati, Fascicle V Technologies in Machine Building, Galati, Romania, pp. 155-156, 2009 ISSN 1221-4566	ProQuest CSA Google Scholar	**15**
Total					**93,04**

A2.3. Articole in extenso în Reviste/Proceedings naționale/internaționale neindexate, 6/(nr. autori) – Reviste, 4/(nr. autori) – Proceedings

Nr. crt.	**Titlul articolului**	**Autori**	**Publicația**	**Punctaj**
2	Research upon residual stress distribution and springback behaviour of sheet metals	Chirita B.	TSTM-15, nr. 2, Technical Sciences Academy of Romania, University of Bacau, 2009, pp. 21-27**,** ISSN 1224-7499	**6**
Total				**6**

A2.4. Proprietate intelectuală, brevete de invenție și inovație etc.

Nr. crt.	**Titlul**	**Autori**	**Punctaj** 20/(nr. autori)
1	Brevet invenție RO 123015 B1, data publicării: 30.07.2010 BOPI nr. 7/2010 **Freză frontală cu dinți foarte deși**	Gherghel Mihai **Chiriță Bogdan**	20/2 = **10**

Total	10

A2.5. Granturi / proiecte câștigate prin competiție

A2.5.1. Director / Responsabil – minim 2D sau 4R pentru profesor; internaționale 20*val/(10 mii €), naționale 10*val/(10 mii €)

Nr. crt.	Denumire grant/proiect	Tip proiect	Valoare	Punctaj
1	**Tehnologii de fabricare inteligente pentru productia avansata a pieselor din industriile de automobile si aeronautica** PN-III-P1-1.2-PCCDI-2017-0446, PNCDI III, Programul 1 - Proiecte Complexe realizate în consorţii CDI – 2017, 2018 – 2020 **Responsabil IC proiect component pentru Universitatea „Vasile Alecsandri" din Bacău**	PNCDI III, Programul 1 - Proiecte Complexe realizate în consorţii CDI – 2017	1.057.500 RON (valoare: 226.980 Euro / martie 2018)	**10*226.980/10.000= 226,98**
5	**Studiul tensiunilor reziduale, a efectelor asupra revenirii elastice a pieselor obținute prin deformarea plastica a tablelor metalice si a posibilităților de eliminare a acestor efecte** Program de excelenta pentru tineri cercetători CEEX nr. 3169/12.10.2005 Perioada: 2005-2007 (2 ani) **Director de proiect**	Program de excelenta pentru tineri cercetători CEEX	65000 RON	(10*18571)/10000 = **18,57**
6	**Cercetări experimentale si prin simulare privind factorii de influenta ai revenirii elastice la îndoirea in U a tablelor metalice** Program CNCSIS tip Td nr. 3380/29.06.2004 Perioada: 2004 (1 an) **Director de program**	Program CNCSIS	5600 RON	(10*1380)/10000 = **1,38**
Total				**246,93**

A2.5.2. Membru în echipă; internaționale 4*nr. ani participare în proiect, naționale 2*nr. ani participare în proiect

Nr. crt.	Denumire grant/proiect	Tip proiect	Național / internațional	Punctaj
1	**The Intelligent System for Netshape Forming of Metal Sheet Products** Perioada 2002-2005 (3 ani)	Program Cadru 5	Internațional	4*3 = **12**

	Parteneri: Universitatea Tehnica din Wroclaw – Polonia, Universitatea Savoie – Franta, Universitatea Porto – Portugalia, Autotools – Polonia, MFI Poznan – Polonia, SEP – Franta, PJ Ferramentas – Portugalia, WMW Bacau – Romania, SC Mecanica Ceahlau Piatra Neamt – Romania, 150.000 Euro			
2	**The System for Metal Sheet Forming Design** Perioada 1997-2000 (participare 2 ani) Parteneri: Universitatea Savoie – Annecy (Franta), Universitatea Tehnica din Wroclaw (Polonia), Universitatea Porto (Portugalia), 47000 Euro	Program Copernicus IC15CT970708	Internațional	4*2 = **8**
3	**Tehnologii ecologice și economice pentru prelucrarea tablelor metalice folosite la realizarea blindajelor** Contract PN II 297/2014 Perioada: 2014-2017	Program PN II – PCCA	Național	**2*3 = 6**
4	**Factori de influenta, modelarea fenomenelor specifice si optimizarea procesului de micro/milli ambutisare a tablelor metalice cu grosimi sub 0.2mm** Contract PNII PCE 178/2011 Perioada: 2011-2012 (1 an)	Program PN II – PCE	Național	2*1 = **2**
5	**Modelarea pe baza analizei experimentale şi prin simulare a interacţiunii dintre procesele fizice de generare a tensiunilor reziduale şi revenire elastică la deformarea plastică a tablelor metalice** Program PNII – IDEI 595/2009 Perioada: 2009 – 2011 (2 ani)	Program PNII – IDEI	Național	2*2 = **4**
6	**Modernizarea și consolidarea infrastructurii de cercetare a grupului de laboratoare de cercetare specifice deformării plastice la rece a tablelor metalice** Program PNCDI II Capacităţi nr. 115/2007 Perioada:2007-2009 (2 ani)	Program PN II Capacităţi	Național	2*2 = **4**
7	**Tehnologie integrata de fabricație a pieselor realizate din table metalice subțiri** Program CEEX 317/2006 Perioada: 2006-2008 (2 ani)	Program CEEX	Național	2*2 = **4**

8	**Reţea naţională de cercetare în domeniul ingineriei integrate a produselor şi proceselor** Program CEEX 243/6 – 2006 Perioada: 2006-2008 (2 ani)	Program CEEX	Național	2*2 = **4**
Total				**44**

A2.6. Coordonare / dezvoltare laborator / centru de cercetare (dacă este și didactic, punctajul se cuantifică o singură dată) – responsabil 40 puncte

Nr. crt.	**Laborator / centru de cercetare**	**Punctaj**
1	Cercetări privind calitatea proceselor de prelucrare prin așchiere	40
Total		**40**

A3. RECUNOAȘTEREA ȘI IMPACTUL ACTIVITĂȚII

Punctaj minim 100 puncte

Punctaj realizat 676,86 puncte

A3.1. Citări în reviste ISI și BDI – ISI 10/nr. autori articol citat, BDI 5/nr. autori articol citat

Nr. crt.	Titlu lucrare citată / lucrare care a citat	Punctaj
1.	**NC Tampu, RI Tampu, OI Patriciu, BA Chiriță, L Gavrilă - Evaluation of the corrosion inhibition potential of raphanus sativus and spinacia oleraceea extracts part II: mild steel corrosion inhibition by raphanus sativus and spinacia oleracea extracts as green corrosion inhibitors, Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry, Volume 21, No. 3 (2020), pp. 435-444, ISSN 1582-540X**	**2**
	Lucrări care citează: 1 ISI	
	Ahmed, Junaid E. S., Ganesh, G. Mohan - **A Comprehensive Overview on Corrosion in RCC and Its Prevention Using Various Green Corrosion Inhibitors,** *Buildings*, Volume12, Issue10, Article Number 1682, 2022 DOI10.3390/buildings12101682	10/5= 2
2.	**CC Grigoraș, B Chiriță, G Brabie, V Zichil, E Herghelegiu, C Tâmpu, C Ciofu, C Iancu - The analysis of high-pressure water jet cutting of thick aluminium alloy 6061-T651 from a statistical perspective, IOP Conf. Series: Materials Science and Engineering, 916, 012043, 2020, ISSN: 1757-899X DOI: 10.1088/1757-899X/916/1/012043**	**1,66**
	Lucrări care citează: 1 ISI	
	Ren, Y.; Wang, L.; Ma, M.; Cheng, W.; Li, B.; Lou, Y.; Li, J.; Ma, X. **Stepwise Removal Process Analysis Based on Layered Corrosion Oxides**. Materials, 2022, 15, 7559. https://doi.org/10.3390/ma15217559	10/6=1,66
3.	**C. Grigoraș, B. Chiriță, G. Brabie - Additive manufacturing of a stretch forming die using 3D printing technology, IOP Conf. Series: Materials Science and Engineering 564, 012017, 2019, ISSN 1757-8981 doi: 10.1088/1757-899X/564/1/012017**	**1,66**
	Lucrare care citează: 1 BDI	
	F.E. Nouman, S.A. Nama, H.H. Mahdi - **EFFECT OF INFILL PERCENTAGE FOR 3D PRINTED DIES ON SPRING BACK FOR ALUMINUM SHEETS**, International Journal on "Technical and Physical Problems of Engineering" (IJTPE), Issue 49 Volume 13 Number 4 Pages 27-32, December 2021, ISSN 2077-3528	5/3=1,66

4.	**B Chirita, C Grigoras, C Tampu, E Herghelegiu - Analysis of cutting forces and surface quality during face milling of a magnesium alloy, IOP Conference Series: Materials Science and Engineering 591 (1), 012006, 2019, doi:10.1088/1757-899X/591/1/012006**	**11,25**
	Lucrări care citează: 4 ISI, 1 BDI	
	Kulisz, M; Zagorski, I; Jozwik, J; Korpysa, J - **Research, Modelling and Prediction of the Influence of Technological Parameters on the Selected 3D Roughness Parameters, as Well as Temperature, Shape and Geometry of Chips in Milling AZ91D Alloy**, *Materials*, Volume 15, Issue 12, Article Number 4277, 2022 DOI10.3390/ma15124277	10/4=2,5
	Sun, XY; Wang, XY; Hu, YW; Duan, JA - **The effect of micro-texture on wear resistance of WC/Co-based tools during cutting Ti-6Al-4V,** *APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING,* Volume 127, Issue 6, Article Number 453, 2021 DOI10.1007/s00339-021-04576-9	10/4=2,5
	Sarikaya, M; Gupta, MK; Tomaz, I a.o. - **Cooling techniques to improve the machinability and sustainability of light-weight alloys: A state-of-the-art review**, *JOURNAL OF MANUFACTURING PROCESSES*, Volume 62, Page 179-201, 2021 DOI10.1016/j.jmapro.2020.12.013	10/4=2,5
	Al Hazza, Muataz Hazza F.;Ali, Mohammad Yeakubb; Bt. Juraimi N.A.; Adesta, Erry Y. T. - **Assessment of flank wear and tool life in high speed face milling under dry and near dry machining**, *Proceedings of the 5th NA International Conference on Industrial Engineering and Operations Management*, IEOM Society, ID 729, pp. 3681-3689, 2020 https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096605744&partnerID=40&md5=3a3713da909ade65e1f20a2fe9223bbc	5/4=1,25
	Zagórski, I.; Korpysa, J. - **Surface Quality Assessment after Milling AZ91D Magnesium Alloy Using PCD Tool**. *Materials,* Volume: 13, Issue: 3, Article Number: 617, 2020 DOI: 10.3390/ma13030617	10/4=2,5
5.	**C Ciofu, C Carausu, SN Mazurchevici, V Paunoiu, B Chirita - Equipment for testing the worm and worm gear assembly from" liquid wood" and comparative MEF analyses, International Journal of Modern Manufacturing Technologies, vol. X, No. 2, pp. 45-50, 2018**	**2**
	Lucrări care citează: 2 BDI	

	Soham Teraiya, Swapnil Vyavahare, Shailendra Kumar - **Numerical and experimental investigation on effect of design factors on shear properties of additively manufactured tetra-anti-chiral cellular metamaterial**, *International Journal of Modern Manufacturing Technologies*, ISSN 2067–3604, Vol. XIV, No. 1 / 2022, pp. 104-112 https://doi.org/10.54684/ijmmt.2022.14.1.104	5/5=1
	Ciprian Ciofu, Simona-Nicoleta Mazurchevici, Demofilo Maldonado-Cortes, Laura Pena-Paras, Daniel Ivan Quintanilla Correa, Dumitru Nedelcu - **Tribological behavior of pla biodegradable materials used in the automotive industry,** *International Journal of Modern Manufacturing Technologies*, Special Issue, Vol. XI, No. 3/ 2019, ISSN 2067–3604	5/5=1
6.	**R. B. Soares, A. M. P. de Jesus, R. J. L. Neto, B. Chirita, P. A. R. Rosa, A. Reis - Comparison Between Cemented Carbide and PCD Tools on Machinability of a High Silicon Aluminum Alloy, Journal of Materials Engineering and Performance, Volume 26, Issue 9, pp 4638–4657, September 2017, DOI: 10.1007/s11665-017-2870-9, ISSN: 1059-9495**	**21,58**
	Lucrări care citează: 12 ISI, 2 BDI	
	Li, Y; Yu, AB; Qin, T; Shi, CC; Wang, GL; Zou, P - **Improved chip control on PCD tools by positioning of brazed chip breakers,** *JOURNAL OF MATERIALS PROCESSING TECHNOLOGY*, Volume 308, Article Number 117717, 2022 DOI10.1016/j.jmatprotec.2022.117717	10/6=1,66
	Wang, X; Popov, VL a.o. - **Preparation of Micro-Pit-Textured PCD Tools and Micro-Turning Experiment on SiCp/Al Composites,** *Micromachines,* Volume 13, Issue 7, Article Number 1141, 2022 DOI10.3390/mi13071141	10/6=1,66
	Kalkan, IH; Vardar, O; Hizli, IG; Dispinar, D - **Influence of Melt Quality on Machinability of HPDC Al9Si3Cu,** *JOM*, Volume74, Issue9, Page3214-3220, 2022 DOI10.1007/s11837-022-05220-4	10/6=1,66
	Zedan, Y; Songmene, V; Samuel, AM; Samuel, FH; Doty, HW - **Effects of Free-Cutting Elements Addition on the Microstructure, Hardness, and Machinability of Al-11%Si-Cu-Mg Casting Alloys,** *INTERNATIONAL JOURNAL OF METALCASTING*, Volume16, Issue4, Page1915-1931, 2022 DOI10.1007/s40962-021-00740-2	10/6=1,66

	da Silva, GC; Saraiva, QM; Carneiro, JRG; Santos, IA; Jose, AS - **New milling methodology for sealing planes in AlSi9Cu3(Fe) alloy machined with PCD tool,** *INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY,* Volume 113, Issue 11-12, Page 3211-3223, 2021 DOI10.1007/s00170-021-06843-8	10/6=1,66
	Wang, X; Sun, XT; Yu, HD a.o. - **Research on the micro-hole texture forming of PCD tool surface,** *2021 IEEE INTERNATIONAL CONFERENCE ON MANIPULATION, MANUFACTURING AND MEASUREMENT ON THE NANOSCALE (3M-NANO)*, Page 365-368, 2021 DOI10.1109/3M-NANO49087.2021.9599816	10/6=1,66
	Yu, X; Wang, YG; Lv, DJ - **A novel chip breaker structure of PCD tool for the reaming of 7050 aluminum alloy**, *INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY*, Volume 109, Issue 3-4, Page 659-672, 2020 DOI10.1007/s00170-020-05658-3	10/6=1,66
	Wu, M. C. Search;Yu, A. B. Search;Chen, Q. J. Search;Wang, Y. L. Search;Yuan, J. D. Search;Sun, L. Search;Chi, J. Y. - **Design of adjustable chip breaker for PCD turning tools**, INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, Volume: 172, Article Number: UNSP 105411, 2020, ISSN 0020-7403 DOI: 10.1016/j.ijmecsci.2019.105411	10/6=1,66
	Bayraktar, Senol; Afyon, Furkan - **Machinability properties of Al-7Si, Al-7Si-4Zn and Al-7Si-4Zn-3Cu alloys,** JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, Volume: 42, Issue: 4, Article Number: 187, 2020 DOI: 10.1007/s40430-020-02281-x	10/6=1,66
	Barakat, H.; Zedan, Y.; Samuel, A. M.; et al. - **Effect of metallurgical parameters on the drilling and tapping characteristics of aluminum cast alloys,** INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, Volume: 105, Issue: 1-4, Pages: 1357-1370 Published: NOV 2019 DOI: 10.1007/s00170-019-04322-9	10/6=1,66
	Gain, S.; Silva, T. E. F.; Jesus, A. M. P.; et al., **Mechanical characterization of the AlSi9Cu3 cast alloy under distinct stress states and thermal conditions,** ENGINEERING FRACTURE MECHANICS, Volume: 216, Article Number: UNSP 106499, 2019 DOI: 10.1016/j.engfracmech.2019.106499	10/6=1,66
	Silva, T. E. F.; Gain, S.; Pinto, D.; et al. - **Fracture characterization of a cast aluminum alloy aiming machining simulation,** PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L-	10/6=1,66

	JOURNAL OF MATERIALS-DESIGN AND APPLICATIONS Volume: 233 Issue: 3 Special Issue: SI Pages: 402-412 Published: MAR 2019 DOI: 10.1177/1464420718799116	
	Kang, Z., Fu, Y., Kim, D.M. et al. **From macro to micro, evolution of surface structures on cutting tools: a review**. JMST Adv. 1, 89–106 (2019). https://doi.org/10.1007/s42791-019-0009-x	5/6=0,83
	Guangfeng SHI, Hua ZHANG - **Effects of polycrystalline diamondtool rake angle on turning process of high siliconaluminum alloy**, U.P.B. Sci. Bull., Series D, Vol. 80, Iss. 3, 2018, ISSN 1454-2358	5/6=0,83
7.	**Abdelkrim M, Brabie G, Belloufi A, Catalin T, Chirita B - Experimental Investigations to evaluate the effects of cutting parameters on cutting temperature and residual stresses during milling process of the AISI 1045, IOP Conference Series: Materials Science and Engineering, vol. 227, iss. 1, 012001, 2017**	**6**
	Lucrări care citează: 1 ISI 4 BDI	
	Nowakowski, L; Skrzyniarz, M; Blasiak, S; Bartoszuk, M - **Influence of the Cutting Strategy on the Temperature and Surface Flatness of the Workpiece in Face Milling,** *Materials,* Volume 13, Issue 20, Article Number 4542, 2020 DOI10.3390/ma13204542	10/5=2
	Gleb V. Botvin, Vyacheslav V. Petrov, Alexander A. and Evgenia S. Petukhova - **Determination of optimal modes for milling mammoth tusk on a numerically controlled machine**, *AIP Conference Proceedings,* 2467, 030022 (2022) https://doi.org/10.1063/5.0092392	5/5=1
	Jafarian, F., Mohseni, E. - **Thermal Loads and Surface Quality Evaluation in Machining of Hardened Die Steel under Dry and Cryogenic Machining**. ADMT Journal, 2020; 13(1): 83-90.	5/5=1
	Jafarian F., SahamiSoltani R., Mohseni E. - **Cryogenic machining of hardened die steel for evaluation of thermal loads at different process condition**s, 4th conference on Mechanical and Aerospace EngineeringAt: Khajenasir Toosi University, Tehran, Iran, 2019	5/5=1
	P. BHOKARE, K.V. RAMANA - **A review on residual stress in manufactured component, testing techniques, and relieving methods**, International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) Vol. 8, Issue 6, 699-714, Dec 2018, ISSN(P): 2249-6890; ISSN(E): 2249-8001 **DOI :** 10.24247/ijmperddec201872	5/5=1

8.	**B Chirita, NC Tampu, G Brabie, MC Radu - Experimental investigation on the effects of cooling system on surface quality in high speed milling of an aluminium alloy, IOP Conference Series: Materials Science and Engineering, vol. 145, 022006, 2016 doi:10.1088/1757-899X/145/2/022006**	**3,75**
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	Prasad Kawade & Sanjay Bokade - **Review of cooling techniques used in metal cutting processes**, *Advances in Materials and Processing Technologies*, DOI: 10.1080/2374068X.2022.2109668	10/4=2,5
	Modular milling cutter with inner-cooling network Mircea-Viorel Dragoi; Dorin Mircea Rosca; Folea, Milena Flavia; Oancea, Gheorghe - **Modular milling cutter with inner-cooling network**, *MATEC Web of Conferences*; Les Ulis, Vol. 343, (2021). DOI:10.1051/matecconf/202134301009	5/4=1,25
9.	**S Petrila, G Brabie, B Chirita - The use of Tecnomatix software to simulate the manufacturing flows in an industrial enterprise producing hydrostatic components, IOP Conference Series: Materials Science and Engineering, vol. 145, 042032, 2016, doi:10.1088/1757-899X/145/2/042032**	**1,66**
	Lucrări care citează: 1 BDI	
	Václav Š., Košťál P., Lecký Š., Michal D., Bako B. (2018) **Assembly System Planning in Automotive Industry with Use of Discrete Event Simulation**. In: Jármai K., Bolló B. (eds) Vehicle and Automotive Engineering 2. VAE 2018. Lecture Notes in Mechanical Engineering. Springer, Cham, https://doi.org/10.1007/978-3-319-75677-6_44	5/3=1,66
10.	**Iurea P., Cărăușu C-tin, Tâmpu C., Chirita B., Hușanu V. - Residual stresses generated at roughing grinding and hard turning of raceways of bearing rings, International Journal of Modern Manufacturing Technologies, vol. VIII, nr. 2, pp. 19-24, 2016, ISSN 2067-3604**	**4**
	Lucrări care citează: 1 ISI, 2 BDI	
	U Ponugoti, RR Dantuluri, NS Suman Koka, RS Bhuvanagiri - **Experimental investigations on the influence of cutting and tool geometry parameters over the machinability of AISI 52100 steel in hard turning**, International Journal of Modern Manufacturing Technologies, Vol. XII, No. 1 / 2020, ISSN 2067–3604	5/5=1
	M. Barsanti, M. Beghini, C. Santus, A. Benincasa, L. Bertelli - **Integral method coefficients for the ring-core technique to evaluate non-uniform residual stresses**, JOURNAL OF STRAIN ANALYSIS FOR ENGINEERING DESIGN, Volume: 53, Issue: 4, Pages: 210-224, 2018	10/5=2

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	Citare in: Brabie G., Nanu N., **Experimental and by simulation analysis of residual stress and sprinback in the case of metal sheets forming by using the "three bars" method**, THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI, Fascicle V, Technologies in Machine Building, pp.91-94, ISSN 1221-4566 (**BDI** – ProQuest, Google Scholar)	5/3=1,66
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	Citare in: Sadiq J. Aziz - **The Effect of Hole Size and Location on Spring-back Phenomenon inSheet Metal Bending**, Journal of University of Babylon for Engineering Sciences, Vol. (26), No. (6), pp. 282-293, 2018	5/1=5
34.	**Chiriţă Bogdan, Brabie Gheorghe – Experimental analysis of different influences on springback of parts formed by U-bending, TMT2003, 7th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology", Lloret del Mar, Barcelona – Spain, 15-17 September, 2003, p. 141-144**	**20**
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	Citare în: Albut A. - **Springback behaviour of a part made from tailor welded blanks for different welding line placement**, 12th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology" TMT 2008, Istanbul, Turcia, 26-30 August 2008, p. 149-152, ISBN 978-9958-617-41-6 (**BDI** – Google Scholar, Ebsco)	5/2 = 2,5
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	Citare în: Albut A. – **Investigation of the material rolling direction influence on springback effect of a U-shape part manufactured by tailor welded stripes**, 10th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology" TMT 2006, Barcelona-Llored del Mar, Spain, 11-15 September 2006, pp. 121-124, ISBN 9958-617-28-5 (**BDI** – Google Scholar, Ebsco)	5/2 = 2,5
	Citare în: Albut A. – **The sheet thickness influence on springback behaviour of a U-shaped part made from tailor welded stripes,** 11th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology" TMT 2007, Hammamet, Tunisia, 05-09 September 2007, pp. 123-126, ISBN 9958-617-34-8 (**BDI** – Google Scholar, Ebsco)	5/2 = 2,5
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	Citare în: Albut A. - **The influence of the sheet thickness on springback effect in case of TWB's forming**, ADVANCES IN APPLIED MATHEMATICS, SYSTEMS, COMMUNICATIONS AND COMPUTERS, Mathematics and Computers in Science and Engineering, pp. 147-150, 2008, ISBN:978-960-6766-69-5 Accession Number: WOS:000257984000023 (**ISI Proceeding**)	10/1 = 10
	Citare în: Albut A. – **Investigation of the material rolling direction influence on springback effect of a U-shape part manufactured by tailor welded stripes**, 10th International Research/Expert Conference ”Trends in the Development of Machinery and Associated Technology” TMT 2006, Barcelona-Llored del Mar, Spain, 11-15 September 2006, pp. 121-124, ISBN 9958-617-28-5 (**BDI** – Google Scholar, Ebsco)	5/1 = 5
	Citare în: Albut A. – **The sheet thickness influence on springback behaviour of a U-shaped part made from tailor welded stripes,** 11th International Research/Expert Conference ”Trends in the Development of Machinery and Associated Technology” TMT 2007, Hammamet, Tunisia, 05-09 September 2007, pp. 123-126, ISBN 9958-617-34-8 (**BDI** – Google Scholar, Ebsco)	5/1 = 5
Total		**441,86**

A3.2. Prezentari invitate in plenul unor manifestari stiintifice nationale (10 puncte) si internationale (20 puncte) și Profesor invitat (exclusiv ERASMUS)

Nu este cazul

A3.3. Membru in colectivele de redacție sau comitete științifice al revistelor si manifestărilor științifice, organizator de manifestări științifice / Recenzent pentru reviste si manifestări științifice naționale si internaționale indexate ISI; Punctaj: ISI 10 puncte, BDI 8 puncte, neindexate 5 puncte

Nr. crt.	Denumire revistă / manifestare științifică	Categorie	Activitate	Punctaj
1.	Journal of Engineering Studies and Research (ISSN 2068-7559)	Revistă BDI	Recenzent	8
2.	International Journal of Materials Engineering Innovation (ISSN 1757-2754) Inderscience Publishers (www.inderscience.com)	Revistă BDI	Recenzent	8
3.	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications (ISSN: 1464-4207) SAGE (http://pil.sagepub.com/)	Revistă ISI	Recenzent	10

4.	Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture (ISSN: 0954-4054) SAGE (http://pib.sagepub.com/)	Revistă ISI	Recenzent	10
5.	Sustainable Materials and Technologies (ISSN: 2214-9937) Elsevier (https://www.journals.elsevier.com/sustainable-materials-and-technologies)	Revistă ISI	Recenzent	10
6.	Materials (ISSN 1996-1944) MDPI (https://www.mdpi.com/journal/materials)	Revistă ISI	Recenzent	10
7.	Metals (ISSN 2075-4701) MDPI (https://www.mdpi.com/journal/metals)	Revistă ISI	Recenzent	10
8.	*The Journal of Strain Analysis for Engineering Design (ISSN: 0309-3247)* *SAGE Publishing (https://journals.sagepub.com/home/sdj)*	Revistă ISI	Recenzent	10
9.	Advances in Materials and Processing Technologies (ISSN: 2374-068X) Advances in Materials and Processing Technologies | Taylor & Francis Online (tandfonline.com)	Revistă ISI	Recenzent	10
10.	Coatings (ISSN: 2079-6412) MDPI (Coatings | An Open Access Journal from MDPI)	Revistă ISI	Recenzent	10
11.	Applied Science and Engineering Progress (ISSN: 2672-9156) ABOUT THE JOURNAL (kmutnb.ac.th)	Revistă BDI	Recenzent	8
12.	Mechanics Based Design of Structures and Machines (ISSN: 1539-7734) Mechanics Based Design of Structures and Machines | Taylor & Francis Online (tandfonline.com)	Revistă ISI	Recenzent	10
13.	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering (ISSN: 0954-4089) SAGE (https://journals.sagepub.com/home/PIE)	Revistă ISI	Recenzent	10
14.	High Temperature Materials and Processes (ISSN: 2191-0324) High Temperature Materials and Processes (degruyter.com)	Revistă ISI	Recenzent	10
15.	International Journal of Experimental Design and Process Optimisation (ISSN 2040-2252) https://www.inderscience.com/jhome.php?jcode=ijedpo	Revistă BDI	Membru în comitetul editorial	8

16.	Conferința internațională Modern Technologies in Industrial Engineering MODTECH www.modtech.ro	Conferință internațională (indexată ISI)	Membru în comitetul de organizare al conferinței	10
17.	International Conference of Constructive Design and Technological Optimization in Machine Building ”Vasile Alecsandri" University Of Bacau	Conferință internațională	Membru în comitetul de organizare al conferinței	5
Total				**157**

A3.4. Experiența de management, analiza si evaluare in cercetare si/sau învățământ, Conducere (punctaj: 5*ani de desfășurare), Membru (punctaj: 2*ani de desfășurare)

Nr. crt.	**Funcție**	**Perioadă**	**Punctaj**
1	Director departament IMSI – Facultatea de Inginerie	2016-2020	5*4 = **20**
2	Membru în Consiliul Profesoral - Facultatea de Inginerie, Universitatea „Vasile Alecsandri” din Bacău	2008-2020	2*12 = **24**
3	Membru al Senatului Universității „Vasile Alecsandri” din Bacău	2012-2020	2*8 = **16**
4	Prodecan al Facultății de Inginerie a Universității „Vasile Alecsandri” din Bacău	2020-2022	5*2 = **10**
Total			**70**

A3.5. Premii

Nu este cazul.

A3.6. Membru in academii, organizații, asociații profesionale de prestigiu, naționale si internaționale, apartenență la organizații din domeniul educației si cercetării

A.3.6.4. Membru în asociații profesionale

Nr. crt.	**Denumire asociație**	**Punctaj**
1	Asociatia Profesionala in Tehnologii Moderne de Fabricatie ModTech	5
2.	Asociația „De Sprijin Academica” Bacău	3
Total		**8**

CENTRALIZATOR - Conform standardelor minimale din domeniul: Inginerie Industrială

Domeniul de activitate	**Conditii minime profesor**	**Realizat**
A1. ACTIVITATEA DIDACTICĂ ȘI PROFESIONALĂ	**Minim 130 puncte**	**304,72 puncte**
	Carti/manuale/monografii/capitole de specialitate: **minim 2 prim autor** (Abilitare/Profesor)	**1 carte + 3 capitole ca prim autor** (total 6 cărți/capitole ca autor/coautor) **Punctaj: 44,83**
	Suporturi de curs/Indrumare: **minimum 4, din care 2 ca prim autor** (Abilitare/Profesor)	**4 materiale, 2 prim autor** **Punctaj: 14,89**
A2. ACTIVITATEA DE CERCETARE	**Minim 300 puncte**	**760,15 puncte**
	Articole indexate in reviste ISI Thomson Reuters si in volumele unor manifestări științifice indexate ISI Thomson Reuters: **minimum 8 articole**, **din care 3 în reviste, 3 ca autor principal**, **minim 1 articol în reviste din zona roșie/galbenă** (Abilitare/Profesor)	Total publicate(**de la ultima promovare**): **33 articole ISI Thomson Reuters** (**12** în reviste, 21 în proceeding-uri), din care: **9 articole prim/unic autor** **5 articole în reviste din zona roșie/galbenă**
	Articole in reviste si volumele unor manifestari stiintifice indexate în alte baze de date internaționale: **minim 8 articole**	Total publicate: **20 articole**
	Grant-Director/ responsabil, Director/ Responsabil - **Minim 2D sau 4R** (Abilitare/Profesor)	Total: **2 Director; 1 Responsabil**
A3. RECUNOASTEREA ȘI IMPACTUL ACTIVITĂȚII	**Minimum 100 puncte**	**676,86 puncte**
TOTAL	**Minimum 530 puncte**	**1741,73 puncte**