

Fișa de verificare a criteriului
„Activitate de cercetare științifică, dezvoltare tehnologică și inovare” (CDI)
 Standarde minimale pentru domeniile științifice “Inginerie mecanică, mecatronică și robotică”:
Minim 10 puncte, din care minim 6 puncte din CDI-ART




Criteriul CDI

Indicatori DID	Descriere	Punctaj	Observații
CDI-ART (min. 60% din punctajul minimal)	Articole științifice publicate în reviste de specialitate cotate ISI sau în reviste / volume indexate ISI sau BDI.	1 articol = $F_{\text{articol}}^* + \sum F_{\text{citare}}^*$ $FI^* = 0.1 + \text{Factor Impact}$	<ul style="list-style-type: none"> Factorul de impact corectat FI^* ia în considerare articolele în publicații indexate BDI sau indexate ISI (fără factor de impact) prin valoarea de prag 0.1; Se pot lua în considerare articole cu $F_{\text{articol}}^* = 0$ dar cu $\sum F_{\text{citare}}^* > 0$; Se exclud autocitățile; Monografiile naționale trebuie să fie incluse în depozitul legal al Bibliotecii Naționale
CDI-BRV	Brevete de invenție	1 brevet de invenție internațional = 3 puncte 1 brevet de invenție național = 1 punct	
CDI-MON	Monografiile de specialitate sau capitole în monografiile de specialitate	1 punct = 10 pagini contribuție monografie în editură de prestigiu din străinătate* 1 punct = 50 pagini contribuție în editură națională	

* Edituri de prestigiu din străinătate: Elsevier, Springer, John Wiley & Sons, McGraw-Hill, CRC Press, Francis & Taylor, Oxford University Press, Cambridge University Press, Academic Press, Kluwer Academic Publishers.

CDI-ART

Nr. crt.	Titlul articolului	Punctaj
<i>articole publicate în reviste cotate ISI THOMSON</i>		
1 C1-1	Fleacă Radu, Oleksik Valentin, Pascu Adrian , Cernușcă-Mițaru Mihaela, Roman Mihai (2014): <i>Properties and Behaviour of Distal Femur to Axial Loading in Osteochondral Autologous Transplantation</i> . Romanian Biotechnological Letters, vol. 19, Issue 2, (March - April 2014), pag.9141-9147, ISSN 1224-5984 (factor de impact 0.363, scor relativ de influență 0.115). http://www.rombio.eu/vol19nr2/6_19_2_2014%20Fleaca%20rec%204%20dec%202013.pdf	0,463
2 C1-2	Frățilă Anca, Oleksik Valentin, Boitor Cornel, Pascu Adrian , Bogdan Pîrvu (2012): <i>Numerical study about the strain analysis and the marginal design of dental indirect restorations</i> . Romanian Biotechnological Letters, vol. 17, Issue 4, (jul. - aug. 2012), pag.7474-7482, ISSN 1224-5984 (factor de impact 0.363, scor relativ de influență 0.115). http://www.rombio.eu/rbl4vol17/9%20Fratila.pdf	0,463
3 C1-3	G.P. Potirniche, Adrian Pascu , N. Shoemaker, P.T. Wang, M.F. Horstemeyer, D. Stillman, T.-L. Lin (2011): <i>A visco-hyperelastic model for the termo-mechanical behavior of polymer fibers</i> . International Journal of Damage Mechanics, vol. 20, Issue 7, 2011, pag. 1002-1020, ISSN 1056-7895 (factor de impact 1.928, scor relativ de influență 1.060). DOI: 10.1177/1056789510370394 CIT: http://scholar.google.ro/scholar?cites=13587843869012156730&as_sdt=2005&scioldt=0,5&hl=ro .	4,056
4 C1-4	Yibin Xue, Adrian Pascu , Mark Horstemeyer, Liang Wang, Paul Wang (2010): <i>Microporosity effects on cyclic plasticity and fatigue of LENSTM-processed steel</i> . Acta Materialia, vol. 58, Issue 11, 2010, pag. 4029-4038, ISSN 1359-6454 (factor de impact 3.781, scor relativ de influență 10.827). DOI: 10.1016/j.actamat.2010.03.014 CIT: http://scholar.google.ro/scholar?cites=16238451599446411479&as_sdt=2005&scioldt=0,5&hl=ro	47,353
5 C1-5	Oleksik Valentin, Pascu Adrian , Mara Daniel, Bologa Octavian, Racz Gabriel, Breaz Radu (2010): <i>Influence of geometric parameters on strain and thickness reduction in incremental forming process</i> . Steel Research International, vol. 81, no. 9, 2010, pag. 930-933 (factor de impact 0.453, scor relativ de influență 1.372)	0,553

6 C1-6	Oleksik Valentin, Pascu Adrian , Deac Cristian, Bologa Octavian, Racz Gabriel (2010): <i>Experimental study about the surface quality of the medical implants obtained by incremental forming</i> . International Journal of Material Forming, Springer-Verlag France, Vol. 3, Suppl. 1, 2010, pag. 935-938, ISSN 1960-6206, (factor de impact 0.509, scor relativ de influență 0.865). DOI: 10.1007/s12289-010-0922-x  http://scholar.google.ro/scholar?safe=active&client=firefox-a&hs=XS6&rls=org.mozilla:en-US:official&channel=fflb&bav=on.2,or.r_cp.r_qf.&bvm=bv.71198958,d.bGE,pv.xjs.s.ro.dbuT6eM4diU.O&biw=1536&bih=801&um=1&ie=UTF-8&lr=&cites=3678851861595213431	5,452
<i>articole susținute la conferințe indexate ISI Proceedings</i>		
7 C2-1	Eugen Avrigean, Adrian Pascu , Valentin Oleksik (2015): <i>Study of the cardan cross using the experimental an analytical method</i> . Procedia Engineering, Volume 100, 2015, ISSN 1877-7058, pag. 499-504, doi: 10.1016/j.proeng.2015.01.396	0,100
8 C2-2	Oleksik Valentin, Pascu Adrian , Roșca Liviu, Bondrea Ioan (2013): <i>Numerical-Experimental Comparison Study Regarding Single Point Incremental Forming Process</i> . Proceedings of the 11th International Conference on Numerical Methods in Industrial Forming Processes (Numiform 2013), Chinese Acad Sci (CAS), Inst Met Res, Shenyang, Peoples Republic of China, 06-10 July, 2013, Published by American Institute of Physics, Vol. 1532, 2013, ISBN: 978-0-7354-0799-2, pag. 532-537, DOI: 10.1063/1.4806872 (ISI Conference Proceedings, conferință ERA clasa A)	0,100
9 C2-3	Oleksik Valentin, Pascu Adrian , Avrigean Eugen, Bondrea Ioan (2013): <i>Theoretical and Experimental Studies on the Influence of Process Parameters on Strains and Forces of Single Point Incremental Forming</i> , Proceedings of the 16 th International Conference on Advances in Materials & Processing Technologies, Taiwan, 22-26 September 2013 (ISI Conference Proceedings, conferință ERA clasa A)	0,100
10 C2-4	Oleksik Valentin, Pascu Adrian , Deac Cristian, Fleacă Radu, Roman Mihai, Bologa Octavian (2010): <i>The influence of geometrical parameters on the incremental forming process for knee implants analyzed by numerical simulation</i> . Proceedings of the 10th International Conference on Numerical Methods in Industrial Forming Processes (Numiform 2010), Published by American Institute of Physics, No. 1252, Vol. 1, 2010, ISBN: 978-0-7354-0799-2, pag. 1208-1215 (ISI Conference Proceedings, American Institute of Physics) DOI: 10.1063/1.3457520 (ISI Conference Proceedings, conferință ERA clasa A)  http://scholar.google.ro/scholar?cites=858465288608594046&as_sdt=2005&sciodt=0,5&hl=ro	6,978
11 C2-5	Oleksik Valentin, Pascu Adrian , Deac Cristian, Fleacă Radu, Roman Mihai (2009): <i>Experimental strain field distribution in ankle-foot orthosis (AFO)</i> , Proceedings of the 2 nd WSEAS International Conference on Biomedical Electronics and Biomedical Informatics (BEBI'09), Moscow, Rusia, 20-22 August 2009, ISSN: 1790-5125, ISBN: 978-960-474-110-6, pag. 94-98. (ISI Conference Proceedings) http://www.wseas.us/e-library/conferences/2009/moscow/BEBI/BEBI15.pdf	0,100
12 C2-6	Pascu Adrian , Oleksik Valentin, Pîrvu Bogdan, Frățilă Anca, Ionaș Mona, Boitor Cornel (2009): <i>Modern methods of study and research in mechanical engineering applied to medicine</i> . 5th Balkan Region Conference on Engineering and Business Education & 2nd International Conference on Engineering and Business Education, Sibiu, Romania, 15 - 17 October, 2009, ISBN: 978-973-739-848-2, pag. 249 -254. (ISI Conference Proceedings)	0,100
13 C2-7	Pascu Adrian , Oleksik Valentin, Curtu Ioan, Avrigean Eugen (2009): <i>Determination of Forces at the Bending of Perforated Plates with Slotted Holes through Experimental and FEM</i> . The 20th DAAAM International World Symposium, 25-28 November 2009, Vienna, Austria, ISSN 1726-9679, pag. 799-800. (ISI Conference Proceedings) http://connection.ebscohost.com/c/articles/47080893/determination-forces-bending-perforated-plates-slotted-holes-through-experimental-fem	0,100
14 C2-8	Pascu Adrian , Oleksik Valentin, Curtu Ioan, Avrigean Eugen (2009): <i>Stress and Strain Field Distribution in Ankle-Foot Orthosis (AFO) using FEM</i> . The 20th DAAAM International World Symposium, 25-28 November 2009, Vienna, Austria, ISSN 1726-9679, pag. 801-802. (ISI Conference Proceedings) http://connection.ebscohost.com/c/articles/47080894/stress-strain-field-distribution-ankle-foot-orthosis-afo-using-fem	0,100
15 C2-9	Nicolae Cofaru, Valentin Oleksik, Pascu Adrian (2008): <i>Finite element simulations regard different alternatives of the single point incremental forming process</i> . Proceedings of the 1 st Wseas International Conference on Visualization, Imaging and Simulation (VIS'08), Bucharest, Romania, November 7-9, 2008, ISSN 1790-2769, ISBN 978-960-474-022-2, pag. 167-172 http://www.wseas.us/e-library/conferences/2008/bucharest2/vis/vis29.pdf (ISI Conference Proceedings)  http://scholar.google.ro/scholar?cites=15682056891755928576&as_sdt=2005&sciodt=0,5&hl=ro	0,400

articole publicate în reviste BDI		
16 C3-1	Oleksik Mihaela, Deac Cristian, Pascu Adrian , Oleksik Valentin (2013): <i>Comparative study regarding the mechanical properties of silicon - coated and uncoated Nylon 6.6 fabrics</i> . Academic Journal of Manufacturing Engineering, Volume 11, Issue 1/2013, pag. 84-89, ISSN 1583-7904 (B+, Index Copernicus)	0,100
17 C3-2	Mihaela Oleksik, Adrian Pascu , Valentin Oleksik (2012): <i>Using of finite element method in study of behavior at the uniaxial traction tests of different types of weaves</i> . Petroleum - Gas University of Ploiesti Bulletin, Technical Series, vol. LXIV, no. 4/2012, pag. 81-88, ISSN 1224-8495 (B+, Ebsco)	0,100
18 C3-3	Ionel Ciupe, Valentin Oleksik, Adrian Pascu (2012): <i>Experimental study of the crushing behavior of high density polyethylene pipes</i> . Petroleum - Gas University of Ploiesti Bulletin, Technical Series, vol. LXIV, no. 4/2012, pag. 45-50, ISSN 1224-8495 (B+, Ebsco)	0,100
19 C3-4	Pascu Adrian , Oleksik Valentin, Fleacă Radu, Roman Mihai, Deac Cristian, Oleksik Mihaela (2011): <i>Experimental study on the behavior of osteochondral cylinders transplanted at the femoral condyle in the case of autologous osteochondral transplant</i> . Petroleum - Gas University of Ploiesti Bulletin, Technical Series, vol. LXIII, no. 1/2011, pag. 107-116, ISSN 1224-8495 (B+, Ebsco)	0,100
20 C3-5	Frățilă Marcu, Pascu Adrian (2010): <i>Determination of stresses in the lenticular compensatory for thermal expansion applied with a shear force</i> . Acta Technica Napociensis – Applied Mathematics and Mechanics, no. 53, vol. II, 2010, pag. 169-172, ISSN 1221-5872 (B+, Index Copernicus - Cod CNCISIS 118) http://www.atna-mam.utcluj.ro/pdf/2010no53vollI_cuprins_si_rezumat.pdf#page=19	0,100
21 C3-6	Pascu Adrian , Oleksik Mihaela, Frățilă Marcu, Avrigean Eugen (2010): <i>Stress and strain analysis in plate with slotted holes placed in two different patterns, loading in perpendicular plane of plate</i> . Acta Technica Napociensis – Applied Mathematics and Mechanics, no. 53, vol. II, (2010), pag. 189-194, ISSN 1221-5872 (B+, Index Copernicus - Cod CNCISIS 118) http://www.atna-mam.utcluj.ro/pdf/2010no53vollI_cuprins_si_rezumat.pdf#page=24	0,100
22 C3-7	Oleksik Valentin, Pascu Adrian , Fleacă Radu, Roman Mihai, Deac Cristian (2010): <i>Using finite element method in study of autologous osteochondral mosaicoplasty</i> . Acta Technica Napociensis – Applied Mathematics and Mechanics, no. 53, vol. II, 2010, pag. 349-352, ISSN 1221-5872 (B+, Index Copernicus - Cod CNCISIS 118) http://www.atna-mam.utcluj.ro/pdf/2010no53vollI_cuprins_si_rezumat.pdf#page=55	0,100
23 C3-8	Fleacă Radu, Roman Mihai, Oleksik Valentin, Pascu Adrian , Deac Cristian, Baier Ioan (2010): <i>The evaluation of the pull out force between osteochondral plug and the receiving tunnel in autologous osteochondral transplantation</i> . Acta Medica Transilvanica, Anul XV, Vol. II, No. 1, 2010, ISSN 1453-1968, pag. 191-193. (B+, Index Copernicus - Cod CNCISIS 68)	0,100
24 C3-9	Fleacă Radu, Roman Mihai, Oleksik Valentin, Pascu Adrian , Deac Cristian, Baier Ioan (2010): <i>Analysis of the mechanical properties of the osteochondral plugs in autologous osteochondral transplantation</i> . Acta Medica Transilvanica, Anul XV, Vol. II, No. 2, 2010, ISSN 1453-1968, pag. 224-226. (B+, Index Copernicus - Cod CNCISIS 68)	0,100
25 C3-10	Oleksik Valentin, Pascu Adrian , Găvrus Adinel, Oleksik Mihaela (2010): <i>Experimental Studies Regarding the Single Point Incremental Forming Process</i> . Academic Journal of Manufacturing Engineering, Volume 8, Issue 2/2010, pag. 51-56, ISSN 1583-7904 (B+, Index Copernicus - Cod CNCISIS 127) http://eng.upt.ro/aui/Lucrari_PDF2_2010/Oleksik.pdf http://imtuoradea.ro/auo.fmte/files-2013-v1/Chera%20lonut%201.pdf	0,300
26 C3-11	Boitor Cornel, Frățilă Anca, Ionaș Mona, Pascu Adrian , Oleksik Valentin, Pîrvu Bogdan (2009): <i>Analiza prin metoda elementului finit a leziunilor de abfracție dentară</i> . Revista Română de Stomatologie, vol. LV, Nr. 4/2009, ISSN 1843-0805, pag. 270-274 (B+, Index Copernicus - Cod CNCISIS 756) http://www.medica.ro/reviste_med/download/stoma/2009.4/Stoma_Nr-4_2009_Art-6.pdf http://scholar.google.ro/scholar?cites=11334787826923056685&as_sdt=2005&sciodt=0,5&hl=ro	0,300
27 C3-12	Frățilă Anca, Boitor Cornel, Ionaș Mona, Oleksik Valentin, Pascu Adrian , Pîrvu Bogdan (2009): <i>Aplicații ale metodei elementului finit în studiul solicitărilor mecanice în medicina dentară</i> . Revista Română de Stomatologie, vol. LV, Nr. 4/2009, ISSN 1843-0805, pp. 252-255 (B+, Index Copernicus - Cod CNCISIS 756)	0,100
28 C3-13	Avrigean Eugen, Pascu Adrian , Oleksik Valentin (2009): <i>Realising of the component elements of loaded cardan transmissions with the help of rapid prototyping</i> . MOCM – Volume 15 (4) 2009 – Romanian Technical Sciences Academy, ISSN 1224-7480, pp. 6-9 (B+, indexata in doua baze de date internationale: VINITI, CSA)	0.100

29 C5-19	Oleksik Valentin, Pascu Adrian , Deac Cristian, Fleacă Radu, Roman Mihai (2009): <i>Numerical simulation of the incremental forming process for knee implants</i> . X International Conference on Computational Plasticity COMPLAS X, Barcelona, Spain, 1-4 September 2009, E. Oriante and D. R. J. Owen (Eds) http://congress.cimne.com/complas09/proceedings/pdfs/p492.pdf http://scholar.google.ro/scholar?cites=3470766890667764141&as_sdt=2005&sciodt=0,5&hl=ro	1,053
Total puncte CDI-ART		69,171

CDI-BRV

Nr. crt.	Titlul brevetului	Punctaj
1 D1	Bercan Nicolae, Bercan Radu, Pascu Adrian , <i>Braț telescopic echilibrat</i> . Brevet de invenție nr. 00119291, Titular: Universitatea Româno-Germană din Sibiu, România, Data de depozit: 06.02.2002.	1,000
Total puncte CDI-BRV		1,000

CDI-MON

Nr. crt.	Titlul monografiei	Punctaj
1	----	0
Total puncte CDI-MON		0,000

Criteriul	Standard minimal	Punctaj realizat
„Activitate de cercetare științifică, dezvoltare tehnologică și inovare” (CDI)	10	70,171

Se poate constata faptul că în punctajul pentru criteriul „Activitate de cercetare științifică, dezvoltare tehnologică și inovare (CDI)”, ponderea (CDI-ART) este de 98,57%, mai mare de 60%, prin urmare, în conformitate cu prevederile anexei 17 la Ordinul Ministrului nr. 6560/20.12.2012, îmi permit să apreciez că **CRITERIUL DE EVALUARE CDI ESTE ÎNDEPLINIT.**

17.06.2016

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