

## FIȘA PENTRU VERIFICAREA STANDARDELOR MINIMALE

**Comisia: Inginerie Mecanică, Mecatronică și Robotică**

**Prof.dr.ing. VELICU Radu**

| Nr. crt. | Criteriul de evaluare  | Minim de îndeplinit (puncte)  | Contribuție principal | Contribuție complementar | Total / Criteriu |
|----------|--|---|-----------------------|--------------------------|------------------|
| 1.       | <b>Criteriul CDI</b><br>Activitate de cercetare științifică, dezvoltare tehnologică și inovare | <b>10</b> (minim 6 puncte din contribuție principal <b>CDI-ART</b> )          | <b>25,000</b>         | <b>37,54</b>             | <b>62,54</b>     |
| 2.       | <b>Criteriul DID</b><br>Activitate didactică și profesională                                   | <b>10</b> (minim 6 puncte din contribuție principal <b>DID-MSD</b> )          | <b>7,5</b>            | <b>8</b>                 | <b>15,5</b>      |
| 3.       | <b>Criteriul RIA</b><br>Recunoașterea și impactul activității                                  | <b>10</b> (minim 6 puncte din contribuție principal <b>Director Proiect</b> ) | <b>84,123</b>         | <b>440,775</b>           | <b>524,898</b>   |
|          | <b>TOTAL</b>   | <b>30 puncte</b>  |                       |                          |                  |

**CRITERIUL CDI – Activitate de cercetare științifică, dezvoltare tehnologică și inovare**

| Indicatori CDI                  | Descriere  | Punctaj  | Observații  | Punctaj       |
|---------------------------------|--|--|---|---------------|
| <b>CDI-ART (minim 6 puncte)</b> | Articole științifice publicate în reviste de specialitate cotate ISI, sau în reviste/volume indexate ISI sau BDI | 1 articol = $FI^*_{articol} + \sum FI^*_{citare}$<br>$FI^* = 0,1 + FI$ | FI = factor impact revist ISI; pentru reviste BDI, $FI=0$ deci $FI^* = 0,1$ | <b>25,000</b> |
| <b>CDI-BRV</b>                  | Brevete de invenție  | 1 brevet național = 1 punct  |   | <b>3</b>      |
| <b>CDI-MON</b>                  | Monografii de specialitate sau capitole în monografii de specialitate  | 1 punct = 50 pagini contribuție editura națională                      |   | <b>34,54</b>  |
| <b>Standard minimal</b>         |  | <b>10 puncte</b>   |   | <b>59,131</b> |

**Criteriul CDI-ART**

| Nr. crt. | Articol / Citare  | FI | FI* | $\sum FI^*_{citari}$ | Punctaj articol |
|----------|---|----|-----|----------------------|-----------------|
| 1        | <b>Velicu, R.,</b> Saulescu, R., Jurj, L. Contact point of bush-sprocket tooth depending on pitch differences of bush chain transmissions. 7th International Conference on Advanced Concepts in Mechanical Engineering IOP Publishing IOP Conf. Series: Materials Science and Engineering 147, 2016,<br><b>ISI</b><br><a href="http://iopscience.iop.org/article/10.1088/1757-899X/147/1/012039/pdf">http://iopscience.iop.org/article/10.1088/1757-899X/147/1/012039/pdf</a>             | 0  | 0,1 | 0                    | <b>0,1</b>      |
| 2        | <b>Velicu, R.,</b> Bobancu, S., Popa, S. Geometry and kinematics of the plate on disk contact type influencing friction measurements on UMT tribometer. 7th International Conference on Advanced Concepts in Mechanical Engineering IOP Publishing IOP Conf. Series: Materials Science and Engineering 147, 2016<br><b>ISI</b><br><a href="http://iopscience.iop.org/article/10.1088/1757-899X/147/1/012042/pdf">http://iopscience.iop.org/article/10.1088/1757-899X/147/1/012042/pdf</a> | 0  | 0,1 | 0                    | <b>0,1</b>      |
| 3        | Late, M., <b>Velicu, R.,</b> Papuc, R. Sliding friction study of the oscillating translational motion for steel on PA66 and PA46 type materials. 7th International Conference on Advanced Concepts in Mechanical Engineering IOP Publishing IOP Conf. Series: Materials Science and Engineering 147, 2016<br><b>ISI</b><br><a href="http://iopscience.iop.org/article/10.1088/1757-899X/147/1/012038/pdf">http://iopscience.iop.org/article/10.1088/1757-899X/147/1/012038/pdf</a>        | 0  | 0,1 | 0                    | <b>0,1</b>      |
| 4        | <b>Velicu, R.,</b> Late, M. Time depending friction in bearing mountings, Revista: Applied Mechanics and Materials, vol. 823, Current Solutions in Mechanical Engineering (ICOME 2015), Trans Tech Publications Ltd. Switzerland, p. 79-84, ISSN:1662-7482, 2016  | 0  | 0,1 | 0,2                  | <b>0,3</b>      |

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|---|---|---|-----|---|------------|
|   | <b>Scientific Net</b><br>www.scientific.net/AMM.823.79  |   |     |   |            |
|   | <i>Cit. 4.1</i> Lates, M., Papuc, R. FEM modeling of the lubrication in guide-chain link contacts, Annals of the Oradea University, Fascicle of Management and Technological Engineering, Volume XXV, (XV) Oradea, 2016, ISSN 1583-0691(e)<br><a href="http://imtuoradea.ro/auo.fmte/files-2016-v1/Mihai%20Tiberiu%20Lates%20-%20FEM%20MODELING%20OF%20THE%20LUBRICATION%20IN%20GUIDE%20-%20CHAIN%20LINK%20CONTACTS.pdf">http://imtuoradea.ro/auo.fmte/files-2016-v1/Mihai%20Tiberiu%20Lates%20-%20FEM%20MODELING%20OF%20THE%20LUBRICATION%20IN%20GUIDE%20-%20CHAIN%20LINK%20CONTACTS.pdf</a>   | 0 | 0,1 |   |            |
|   | <i>Cit. 4.2</i> Lates, M., Gavrilă, P., Papuc, R. Study on the friction in steel/polyamide ball on disk type contacts, 7th International Conference on Advanced Concepts in Mechanical Engineering IOP Publishing IOP Conf. Series: Materials Science and Engineering 147, 2016<br><a href="http://iopscience.iop.org/article/10.1088/1757-899X/147/1/012037/pdf">http://iopscience.iop.org/article/10.1088/1757-899X/147/1/012037/pdf</a>  | 0 | 0,1 |   |            |
| 5 | Gavrilă, C.C., <b>Velicu, R.</b> , Virtual Modeling, Detail Design and FEM Analysis for a Testing Device, Revista: Applied Mechanics and Materials, vol. 823, Current Solutions in Mechanical Engineering (ICOME 2015), Trans Tech Publications Ltd. Switzerland, p. 3-8, ISSN:1662-7482, 2016<br><b>Scientific Net</b><br>www.scientific.net/AMM.823.3   | 0 | 0,1 | 0 | <b>0,1</b> |
| 6 | <b>Velicu, R.</b> , Popa, S. Experimental study of bearing boxes friction depending on load speed and oil temperature, Annals of the Oradea University, Fascicle of Management and Technological Engineering, Volume XXV, (XV) Oradea, 2016, p. 5-8, ISSN 158360691(e)<br><b>Ulrichs Web</b><br><a href="http://imtuoradea.ro/auo.fmte/files-2016-v1/Radu%20Velicu%20-%20EXPERIMENTAL%20STUDY%20OF%20BEARING%20BOXES%20FRICTION%20DEPENDING%20ON%20LOAD%20SPEED%20AND%20OIL%20TEMPERATURE.pdf">http://imtuoradea.ro/auo.fmte/files-2016-v1/Radu%20Velicu%20-%20EXPERIMENTAL%20STUDY%20OF%20BEARING%20BOXES%20FRICTION%20DEPENDING%20ON%20LOAD%20SPEED%20AND%20OIL%20TEMPERATURE.pdf</a> | 0 | 0,1 | 0 | <b>0,1</b> |
| 7 | <b>Velicu, R.</b> , Jurj, L. Short plane bearings lubrication applied on chain joints, Annals of the Oradea University, Fascicle of Management and Technological Engineering, Volume XXV, (XV) Oradea, 2016, p. 19-22, ISSN 158360691(e) DOI: 10.15660/AUOFMTE.2016-1.3221<br><b>Ulrichs Web</b><br><a href="http://imtuoradea.ro/auo.fmte/files-2016-v1/Radu%20Velicu%20-%20SHORT%20PLANE%20BEARINGS%20LUBRICATION%20APPLIED%20ON%20CHAIN%20JOINTS">http://imtuoradea.ro/auo.fmte/files-2016-v1/Radu%20Velicu%20-%20SHORT%20PLANE%20BEARINGS%20LUBRICATION%20APPLIED%20ON%20CHAIN%20JOINTS</a>   | 0 | 0,1 | 0 | <b>0,1</b> |

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|----|--|-------|-------|-----|--------------|
|    | .pdf   |       |       |     |              |
| 8  | <p>Papuc, R., Bobancu, S., <b>Velicu, R.</b>, Eftimie, L. Static friction coefficient between metal-plastic couple of Materials. In: Journal of the Balkan Tribological Association, Vol. 22, No 1A, 2016, p. 577.</p> <p><b>ISI</b><br/> <a href="http://apps.webofknowledge.com/full_record.do?product=WOS&amp;search_mode=GeneralSearch&amp;qid=14&amp;SID=3DNd1CYTo6IN666zCLb&amp;page=1&amp;doc=10">http://apps.webofknowledge.com/full_record.do?product=WOS&amp;search_mode=GeneralSearch&amp;qid=14&amp;SID=3DNd1CYTo6IN666zCLb&amp;page=1&amp;doc=10</a></p>  | 0,737 | 0,837 |     | <b>0,837</b> |
| 9  | <p>Late , M., <b>Velicu, R.</b> CFD Analysis of a VAWT vertical axis wind turbine Revista: Academic Journal of Science, vol.4, nr.3, p. 85-91 ISSN: 2165-6282, 2015</p> <p><b>Google Scholar, Academic Journal of Science</b><br/> <a href="http://www.universitypublications.net/ajs/0403/pdf/DE5C291.pdf">http://www.universitypublications.net/ajs/0403/pdf/DE5C291.pdf</a></p>   | 0     | 0,1   | 0   | <b>0,1</b>   |
| 10 | <p><b>Velicu, R.</b>, Late , M. On the Measurement Procedure for Testing Friction in Bearing Mountings, Annals of the Oradea University, Fascicle of Management and Technological Engineering, Volume XXIV, (XIV) Oradea, 2015, p. 53-58, ISSN 158360691(e) DOI: 10.15660/AUOFMTE.2015-1.3137</p> <p><b>Ulrichs Web</b><br/> <a href="http://imtuoradea.ro/auo.fmte/files-2015-v1/Radu%20VELICU%20-%20ON%20THE%20MEASUREMENT%20PROCEDURE%20FOR%20TESTING%20FRICTION%20IN%20BEARING%20BOXES.pdf">http://imtuoradea.ro/auo.fmte/files-2015-v1/Radu%20VELICU%20-%20ON%20THE%20MEASUREMENT%20PROCEDURE%20FOR%20TESTING%20FRICTION%20IN%20BEARING%20BOXES.pdf</a></p>     | 0     | 0,1   | 0   | <b>0,1</b>   |
| 11 | <p>Gavrila, C.C., <b>Velicu, R.</b> On virtual modelling of a transversal coupling with linkages, Annals of the Oradea University, Fascicle of Management and Technological Engineering, Volume XXIV, (XIV) Oradea, 2015, p. 67-70, ISSN 158360691(e) DOI: 10.15660/AUOFMTE.2015-1.3098</p> <p><b>Ulrichs Web</b><br/> <a href="http://imtuoradea.ro/auo.fmte/files-2015-v1/Cornel%20Catalin%20GAVRILA%20-%20ON%20VIRTUAL%20MODELLING%20OF%20A%20TRANSVERSAL%20COUPLING%20WITH%20LINKAGES.pdf">http://imtuoradea.ro/auo.fmte/files-2015-v1/Cornel%20Catalin%20GAVRILA%20-%20ON%20VIRTUAL%20MODELLING%20OF%20A%20TRANSVERSAL%20COUPLING%20WITH%20LINKAGES.pdf</a></p> | 0     | 0,1   | 0   | <b>0,1</b>   |
| 12 | <p>Papuc, R., <b>Velicu, R.</b>, Late , M. Guide-Chain Contact Pressure Tribological Analysis, Annals of the Oradea University, Fascicle of Management and Technological Engineering, Volume XXIV, (XIV) Oradea, 2015, p. 169-174, ISSN 158360691(e)</p> <p><b>Ulrichs Web</b><br/> <a href="http://imtuoradea.ro/auo.fmte/files-2015-v1/Radu%20PAPUC%20-%20GUIDE-CHAIN%20CONTACT%20PRESSURE%20TRIBOLOGICAL%20ANALYSIS.pdf">http://imtuoradea.ro/auo.fmte/files-2015-v1/Radu%20PAPUC%20-%20GUIDE-CHAIN%20CONTACT%20PRESSURE%20TRIBOLOGICAL%20ANALYSIS.pdf</a></p>  | 0     | 0,1   | 0   | <b>0,1</b>   |
| 13 | <p>Late , M. T., <b>Velicu, R.</b>, Papuc, R. Multiscale modelling of chain-guide contact by using tests and FEM. 11th World Congress on Computational Mechanics, WCCM 2014, 5th European Conference on</p>  | 0     | 0,1   | 0,3 | <b>0,4</b>   |

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|----|---|-------|-------|---|--------------|
|    | Computational Mechanics, ECCM 2014 and 6th European Conference on Computational Fluid Dynamics, ECFD 2014, 2014, p.1062-1069, ISBN 978-84-942844-7-2<br><b>ISI</b><br><a href="http://www.scopus.com/record/display.url?eid=2-s2.0-84923975205&amp;origin=resultslist&amp;sort=cp-f&amp;src=s&amp;st1=velicu%2cR&amp;nlo=&amp;nlr=&amp;nls=&amp;sid=C1720D2A7C73393712944F865C9F44CF.ZmAySxCHIBxTXbnsoe5w%20">http://www.scopus.com/record/display.url?eid=2-s2.0-84923975205&amp;origin=resultslist&amp;sort=cp-f&amp;src=s&amp;st1=velicu%2cR&amp;nlo=&amp;nlr=&amp;nls=&amp;sid=C1720D2A7C73393712944F865C9F44CF.ZmAySxCHIBxTXbnsoe5w%</a>   |       |       |   |              |
|    | <i>Cit 13.1</i> Gavrilă, C. C. 3D modelling, FEM analysis and detail design for a testing device with spherical joint. In: <i>Annals of the Oradea University, Fascicle of Management and Technological Engineering, vol. XV (XXV)/1, Editura Universităţii din Oradea, 2016, ISSN 1583 – 0691, p.42.</i><br><b>Ulrichs Web</b><br><a href="https://ulrichsweb.serialssolutions.com/title/1485843161505/671315">https://ulrichsweb.serialssolutions.com/title/1485843161505/671315</a><br><a href="http://www.imtuoradea.ro/auo.fmte/files-2016-v1/Cornel%20Catalin%20Gavrila%20-%203D%20MODELING,%20FEM%20ANALYSIS%20AND%20DETAIL%20DESIGN%20FOR%20A%20TESTING%20DEVICE%20WITH%20SPHERICAL%20JOINT.pdf">http://www.imtuoradea.ro/auo.fmte/files-2016-v1/Cornel%20Catalin%20Gavrila%20-%203D%20MODELING,%20FEM%20ANALYSIS%20AND%20DETAIL%20DESIGN%20FOR%20A%20TESTING%20DEVICE%20WITH%20SPHERICAL%20JOINT.pdf</a> | 0     | 0,1   |   |              |
|    | <i>Cit 13.2</i> Orlov, S. G., Melnikova, N. B., Ispolov, Y. G., Shabrov, N. N. High-performance simulations of continuously variable transmission dynamics, <i>Russian Supercomputing days 2015, p. 48.</i><br><b>Google Scholar</b><br><a href="https://scholar.google.ro/scholar?oi=bibs&amp;hl=en&amp;cites=5502601127711150971&amp;as_sdt=5">https://scholar.google.ro/scholar?oi=bibs&amp;hl=en&amp;cites=5502601127711150971&amp;as_sdt=5</a>   | 0     | 0,1   |   |              |
|    | <i>Cit 13.3</i> Melnikova, N. B., Orlov, S. G., Shabrov, N. N., Kiev, V. CAVE 3D: software extensions for scientific visualization of large-scale models, <i>Procedia Computer Science, vol. 66, p. 688.</i><br><b>Science direct</b><br><a href="http://www.sciencedirect.com/science/article/pii/S1877050915034262">http://www.sciencedirect.com/science/article/pii/S1877050915034262</a>  | 0     | 0,1   |   |              |
| 14 | Papuc, R., <b>Velicu, R.</b> , Late , M., Jaliu, C. Geometrico-Static Modeling and Simulation of the Contact between Chain and Guide of a Reference Transmission Revista: Applied Mechanics and Materials, 658 ISSN:1662-7482, pp. 111-116, 2014<br><b>ISI</b><br><a href="http://www.scientific.net/AMM.658.111">http://www.scientific.net/AMM.658.111</a>   | 0     | 0,1   | 0 | <b>0,1</b>   |
| 15 | Todi-Eftimie A., <b>Velicu, R.</b> , Brands, C., Schlerege, F., Lates, M. T. Friction in bearings of parallel axes transmission Revista: Applied Mechanics and Materials 658, ISSN:1662-7482, pp. 371-374, 2014<br><b>ISI</b><br><a href="http://www.scientific.net/AMM.658.371">http://www.scientific.net/AMM.658.371</a>  | 0     | 0,1   | 0 | <b>0,1</b>   |
| 16 | Late , M. T., <b>Velicu, R.</b> , Papuc, R. Testing and FEA as  | 0,448 | 0,548 |   | <b>0,548</b> |

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|----|--|---|-----|-----|------------|
|    | prediction strategies on the ball bearings behaviour. International Journal of Surface Science and Engineering, vol.8, no.4, 2014, p.345-355, ISSN 1749-785X<br><b>ISI</b><br><a href="https://apps.webofknowledge.com/full_record.do?product=UA&amp;search_mode=GeneralSearch&amp;qid=8&amp;SID=3DNd1CYTo6IN666zCLb&amp;page=1&amp;doc=1&amp;cacheurlFromRightClick=no">https://apps.webofknowledge.com/full_record.do?product=UA&amp;search_mode=GeneralSearch&amp;qid=8&amp;SID=3DNd1CYTo6IN666zCLb&amp;page=1&amp;doc=1&amp;cacheurlFromRightClick=no</a>                          |   |     |     |            |
| 17 | <b>Velicu. R.</b> , Late , M. T. Torques on Rotational Axes of PV Azimuthal Sun Tracking Systems Revista Sustainable Energy in the Built Environment - Steps Towards nZEB, Springer Proceedings in Energy, p. 403 ó 415, ISSN 2352-2534, 2014<br><b>Springer</b><br><a href="http://link.springer.com/chapter/10.1007/978-3-319-09707-7_34">http://link.springer.com/chapter/10.1007/978-3-319-09707-7_34</a>  | 0 | 0,1 | 0   | <b>0,1</b> |
| 18 | Late , M. T., <b>Velicu. R.</b> CFD analysis and theoretical modelling of multiblade small Savonius wind turbines. Sustainable Energy in the Built Environment - Steps Towards nZEB, Springer Proceedings in Energy, p. 403 ó 415, ISSN 2352-2534, 2014<br><b>Springer</b><br><a href="http://link.springer.com/chapter/10.1007/978-3-319-09707-7_30">http://link.springer.com/chapter/10.1007/978-3-319-09707-7_30</a>  | 0 | 0,1 | 0,1 | <b>0,2</b> |
|    | <i>Cit 18.1</i> <i>Saulescu, R., Neagoe, M., Jaliu, C. Improving the energy performance of wind turbines implemented in the built environment using counter-rotating planetary transmissions In: Materials Science and Engineering, vol. 147, 2016, ISSN 1757 – 899X, p. 11.</i><br><b>IOP Science</b><br><a href="http://iopscience.iop.org/article/10.1088/1757-899X/147/1/012089/pdf">http://iopscience.iop.org/article/10.1088/1757-899X/147/1/012089/pdf</a>  | 0 | 0,1 |     |            |
| 19 | Gavril , C.C., <b>Velicu, R.</b> A Transversal Mobile Coupling Virtual Modelling, Revista: Annals of the Oradea University, Fascicle of Management and Technological Engineering, Volume XIII, (XXIII) 2014, Oradea 2014, pp. 159 ó162, ISSN 1583ó0691(e) 2285-3278, ISBN 978-606-10-1276-3.<br><b>Springer</b><br><a href="http://imtuoradea.ro/auo.fmte/files-2014-v1/Gavrila%20Cornel_A%20TRANSVERSAL%20MOBILE%20COUPLING%20VIRTUAL%20MODELLING.pdf">http://imtuoradea.ro/auo.fmte/files-2014-v1/Gavrila%20Cornel_A%20TRANSVERSAL%20MOBILE%20COUPLING%20VIRTUAL%20MODELLING.pdf</a> | 0 | 0,1 | 0,1 | <b>0,2</b> |
|    | <i>Cit 19.1</i> <i>Gavrila, C. C. 3D modelling, FEM analysis and detail design for a testing device with spherical joint.In: Annals of the Oradea University, Fascicle of Management and Technological Engineering, vol. XV (XXV)/1, Editura Universităţii din Oradea, 2016, ISSN 1583 – 0691, p.42.</i><br><b>Ulrichs Web</b><br><a href="https://ulrichsweb.serialssolutions.com/title/1485843161505/671315">https://ulrichsweb.serialssolutions.com/title/1485843161505/671315</a>  | 0 | 0,1 |     |            |

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|----|--|---|-----|-----|------------|--|
|    |  | <a href="http://www.imtuoradea.ro/auo.fmte/files-2016-v1/Cornel%20Catalin%20Gavrila%20-%203D%20MODELING,%20FEM%20ANALYSIS%20AND%20DETAIL%20DESIGN%20FOR%20A%20TESTING%20DEVICE%20WITH%20SPHERICAL%20JOINT.pdf">http://www.imtuoradea.ro/auo.fmte/files-2016-v1/Cornel%20Catalin%20Gavrila%20-%203D%20MODELING,%20FEM%20ANALYSIS%20AND%20DETAIL%20DESIGN%20FOR%20A%20TESTING%20DEVICE%20WITH%20SPHERICAL%20JOINT.pdf</a> |     |     |            |  |
| 20 | Papuc, R., <b>Velicu, R.</b> , Late , M. Geometrical study of guide-chain contact, for general chain transmission Revista: Annals Of The Oradea University. Fascicle Of Management And Technological Engineering;158360691(e) ISSN:2285-3278, 2014<br><b>Ulrichs Web</b><br><a href="http://imtuoradea.ro/conf/2014/PAPUC%20Radu-GEOMETRICAL%20STUDY%20OF%20GUIDE-CHAIN%20CONTACT,%20FOR%20GENERAL%20CHAIN%20TRANSMISSION.pdf">http://imtuoradea.ro/conf/2014/PAPUC%20Radu-GEOMETRICAL%20STUDY%20OF%20GUIDE-CHAIN%20CONTACT,%20FOR%20GENERAL%20CHAIN%20TRANSMISSION.pdf</a>  | 0   | 0,1 | 0   | <b>0,1</b> |  |
| 21 | <b>Velicu, R.</b> , Late , M. Wind load cases in the design of the platform of an azimuthal tracker Revista: Annals Of The Oradea University. Fascicle Of Management And Technological Engineering;158360691(e) ISSN:2285-3278, 2014<br><b>Ulrichs Web</b><br><a href="http://imtuoradea.ro/conf/2014/Velicu%20Radu-WIND%20LOAD%20CASES%20IN%20THE%20DESIGN%20OF%20THE%20PLATFORM%20OF%20AN%20AZIMUTHAL%20TRACKER.pdf">http://imtuoradea.ro/conf/2014/Velicu%20Radu-WIND%20LOAD%20CASES%20IN%20THE%20DESIGN%20OF%20THE%20PLATFORM%20OF%20AN%20AZIMUTHAL%20TRACKER.pdf</a>  | 0   | 0,1 | 0   | <b>0,1</b> |  |
| 22 | Papuc, R., <b>Velicu, R.</b> , Late , M. Study of the contacts between toothed chains and guides. Revista:Mechanisms and Machine Science. The 11th IFToMM International Symposium on Science of Mechanisms and Machines, Springer International Publishing House, vol.8, p.425-432, ISSN 2211-0984, 2013<br><b>Springer</b><br><a href="http://link.springer.com/chapter/10.1007%2F978-3-319-01845-4_47">http://link.springer.com/chapter/10.1007%2F978-3-319-01845-4_47</a>   | 0   | 0,1 | 0,1 | <b>0,2</b> |  |
|    | <i>Cit. 22.1</i> Lates, M. T., Gavrilă, C. C. Friction phenomenon in polyamide – steel plate front face type contacts. In: Annals of the Oradea University, Fascicle of Management and Technological Engineering, vol. XIII (XXIII), ISSUE 1, 2014, ISSN 1583 – 0691, p. 75-78.<br><a href="http://www.imtuoradea.ro/auo.fmte/files-2014-v1/Lates%20Mihai-FRICTION%20PHENOMENON%20IN%20POLYAMIDE%20STEEL%20PLATE%20FRONT%20FACE%20TYPE%20CONTACTS.pdf">http://www.imtuoradea.ro/auo.fmte/files-2014-v1/Lates%20Mihai-FRICTION%20PHENOMENON%20IN%20POLYAMIDE%20STEEL%20PLATE%20FRONT%20FACE%20TYPE%20CONTACTS.pdf</a> | 0   | 0,1 |     |            |  |
| 23 | Todi-Eftimie A.L, <b>Velicu R.</b> , Saulescu R., Jaliu C. Geometric modelling of power joints from bush chain drives", Revista:Mechanisms and Machine Science. The 11th IFToMM International Symposium on Science of Mechanisms and Machines, Springer International Publishing House, vol.8, p. 471-479, ISSN 2211-0984, 2013  | 0   | 0,1 | 0,1 | <b>0,2</b> |  |

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|----|---|---|-----|-----|------------|
|    | <b>Springer</b><br><a href="http://link.springer.com/chapter/10.1007/978-3-319-01845-4_42">http://link.springer.com/chapter/10.1007/978-3-319-01845-4_42</a>  |   |     |     |            |
|    | <i>Cit.</i><br>23.1 <i>Todi-Eftimie, A.; Bobancu, S.; Gavrilă, C.; Eftimie, L. Static friction coefficient into cylindrical joints assemblies, Tribology in Industry . 2015, Vol. 37 Issue 4, p. 421-426</i><br><a href="http://web.b.ebscohost.com/abstract?direct=true&amp;profile=ehost&amp;scope=site&amp;authtype=crawler&amp;jrnl=03548996&amp;AN=112172854&amp;h=yvVZ44zFxzBNergLk74uKF%2b717z1FgUlsV%2f4lT8aB7%2fJO3ra7Ouw%2bPDM6KZOBzKXbAqX0ff37WalkRs3NDdh3g%3d%3d&amp;crl=c&amp;resultNs=AdminWebAuth&amp;resultLocal=ErrCrlNotAuth&amp;crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d03548996%26AN%3d112172854">http://web.b.ebscohost.com/abstract?direct=true&amp;profile=ehost&amp;scope=site&amp;authtype=crawler&amp;jrnl=03548996&amp;AN=112172854&amp;h=yvVZ44zFxzBNergLk74uKF%2b717z1FgUlsV%2f4lT8aB7%2fJO3ra7Ouw%2bPDM6KZOBzKXbAqX0ff37WalkRs3NDdh3g%3d%3d&amp;crl=c&amp;resultNs=AdminWebAuth&amp;resultLocal=ErrCrlNotAuth&amp;crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d03548996%26AN%3d112172854</a> | 0 | 0,1 |     |            |
| 24 | Todi-Eftimie A.L., <b>Velicu R.</b> , Saulescu R., Jaliu C. Bearing Friction vs. Chain Friction for Chain Drives. Advanced Materials Research, Vol.753-755, ICAEMT Conference, pp.1110-1113, ISSN: 1022-6680, 2013<br><b>ISI</b><br><a href="http://www.scientific.net/AMR.753-755.1110">www.scientific.net/AMR.753-755.1110</a>  | 0 | 0,1 | 0   | <b>0,1</b> |
| 25 | Moldovean, G., Butuc, B., <b>Velicu, R.</b> The optimization of the straight bevel gears used in the mechanical transmissions of a PV tracker. Revista:Mechanisms and Machine Science. Power Transmissions, Springer International Publishing House, vol.13, p. 507-518, ISSN 2211-0984, 2013<br><b>Springer</b><br><a href="http://link.springer.com/chapter/10.1007/978-94-007-6558-0_40">http://link.springer.com/chapter/10.1007/978-94-007-6558-0_40</a>   | 0 | 0,1 | 0   | <b>0,1</b> |
| 26 | <b>Velicu, R.</b> Coaxial speed multipliers for wind turbines. Revista: Annals Of The Oradea University. Fascicle Of Management And Technological Engineering; p. 440-442, ISSN: 158360691(e) 2013<br><b>Ulrichs Web</b><br><a href="http://imtuoradea.ro/auo.fmte/files-2013-v1/Velicu%20Radu%201.pdf">http://imtuoradea.ro/auo.fmte/files-2013-v1/Velicu%20Radu%201.pdf</a>   | 0 | 0,1 | 0,1 | <b>0,2</b> |
|    | <i>Cit.</i><br>26.1 Izelu, C., Oghenevwaire, I. A review on developments in the design and analysis of wind turbine drive trains. 3rd International Conference on Renewable Energy Research and Applications, 2014<br><a href="http://www.redes.unb.br/lasp/files/events/ICRER_A_2014/189-Izelu-A-Review.pdf">http://www.redes.unb.br/lasp/files/events/ICRER_A_2014/189-Izelu-A-Review.pdf</a>   | 0 | 0,1 |     |            |
| 27 | Papuc, R., <b>Velicu, R.</b> Tribological study of guide-chain contact Revista: Annals Of The Oradea University. Fascicle Of Management And Technological Engineering; p. 257-260, ISSN: 158360691(e) 2013<br><b>Ulrichs Web</b><br><a href="http://imtuoradea.ro/auo.fmte/files-2013-">http://imtuoradea.ro/auo.fmte/files-2013-</a>   | 0 | 0,1 | 0,2 | <b>0,3</b> |



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|----|-------------------------|--|---|-----|-----|------------|
|    | v1/Papuc%20Radu%201.pdf |  |   |     |     |            |
|    | Cit.<br>27.1            | <i>Lateş, M. T., Gavrilă, C. C. Temperature influence on the friction coefficient of the PA46 polyamide - steel type contacts. In: Annals of the Oradea University, Fascicle of Management and Technological Engineering, vol. XIV (XXIV), Nr.1, Editura Universităţii din Oradea, 2015, ISSN 1583 – 0691. p. 5-8.<br/><a href="http://www.imtuoradea.ro/auo.fmte/files-2015-v1/Mihai-Tiberiu%20LATES%20-%20TEMPERATURE%20INFLUENCE%20ON%20THE%20FRICTION%20COEFFICIENT%20OF%20THE%20PA46%20POLYAMIDE%20-%20STEEL%20TYPE%20CONTACTS.pdf">http://www.imtuoradea.ro/auo.fmte/files-2015-v1/Mihai-Tiberiu%20LATES%20-%20TEMPERATURE%20INFLUENCE%20ON%20THE%20FRICTION%20COEFFICIENT%20OF%20THE%20PA46%20POLYAMIDE%20-%20STEEL%20TYPE%20CONTACTS.pdf</a></i> | 0 | 0,1 |     |            |
|    | Cit.<br>27.2            | <i>Lateş, M. T., Papuc, R. FEM modelling of the lubrication in guide – chain link contacts. In: Annals of the Oradea University, Fascicle of Management and Technological Engineering, vol. XV (XXV)/1, Editura Universităţii din Oradea, 2016, ISSN 1583 – 0691, p.43-46.<br/><a href="http://www.imtuoradea.ro/auo.fmte/files-2016-v1/Mihai%20Tiberiu%20Lates%20-%20FEM%20MODELING%20OF%20THE%20LUBRICATION%20IN%20GUIDE%20-%20CHAIN%20LINK%20CONTACTS.pdf">http://www.imtuoradea.ro/auo.fmte/files-2016-v1/Mihai%20Tiberiu%20Lates%20-%20FEM%20MODELING%20OF%20THE%20LUBRICATION%20IN%20GUIDE%20-%20CHAIN%20LINK%20CONTACTS.pdf</a></i>   | 0 | 0,1 |     |            |
| 28 |                         | <b>Velicu, R.</b> Design methodology for a planetary multiplicator with synchronous belts or chains In Annals of the Oradea University 2012, Fascicle of Management and Technological Engineering, vol XI(XXI) 2012, nr. 2, p. 2.122-2.127, ISSN 15836 0691(e)<br><b>Ulrichs Web</b><br><a href="http://imtuoradea.ro/auo.fmte/files-2012-v2/MECANICA/Velicu%20Radu%20L1.pdf">http://imtuoradea.ro/auo.fmte/files-2012-v2/MECANICA/Velicu%20Radu%20L1.pdf</a>  | 0 | 0,1 | 0,4 | <b>0,5</b> |
|    | Cit.<br>28.1            | <i>Lateş, M. T., Gavrilă, C. C. Friction phenomenon in polyamide – steel plate front face type contacts. In: Annals of the Oradea University, Fascicle of Management and Technological Engineering, vol. XIII (XXIII), ISSUE 1, 2014, ISSN 1583 – 0691, p. 75-78.<br/><a href="http://www.imtuoradea.ro/auo.fmte/files-2014-v1/Lates%20Mihai-FRICTION%20PHENOMENON%20IN%20POLYAMIDE%20STEEL%20PLATE%20FRONT%20FACE%20TYPE%20CONTACTS.pdf">http://www.imtuoradea.ro/auo.fmte/files-2014-v1/Lates%20Mihai-FRICTION%20PHENOMENON%20IN%20POLYAMIDE%20STEEL%20PLATE%20FRONT%20FACE%20TYPE%20CONTACTS.pdf</a></i>  | 0 | 0,1 |     |            |
|    | Cit.<br>28.2            | <i>Lateş, M. T., Papuc, R. FEM modelling of the lubrication in guide – chain link contacts. In: Annals of the Oradea University, Fascicle of Management and Technological Engineering, vol. XV (XXV)/1, Editura Universităţii din Oradea, 2016, ISSN 1583 – 0691, p.43-46.<br/><a href="http://www.imtuoradea.ro/auo.fmte/files-2016-v1/Mihai%20Tiberiu%20Lates%20-%20FEM%20MODELING%20OF%20THE%20LUBRICATION%20IN%20GUIDE%20-%20CHAIN%20LINK%20CONTACTS.pdf">http://www.imtuoradea.ro/auo.fmte/files-2016-v1/Mihai%20Tiberiu%20Lates%20-%20FEM%20MODELING%20OF%20THE%20LUBRICATION%20IN%20GUIDE%20-%20CHAIN%20LINK%20CONTACTS.pdf</a></i>   | 0 | 0,1 |     |            |

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|----|---|---|-------|-------|--------------|--|
|    |   | <a href="#">%20FEM%20MODELING%20OF%20THE%20LUBRICATION%20IN%20GUIDE%20-%20CHAIN%20LINK%20CONTACTS.pdf</a>   |       |       |              |  |
|    | Cit. 28.3   | Lateş, M. T., Gavrilă, C. C. <i>Temperature influence on the friction coefficient of the PA46 polyamide - steel type contacts. In: Annals of the Oradea University, Fascicle of Management and Technological Engineering, vol. XIV (XXIV), Nr.1, Editura Universităţii din Oradea, 2015, ISSN 1583 – 0691. p. 5-8.</i><br><a href="http://www.imtuoradea.ro/auo.fmte/files-2015-v1/Mihai-Tiberiu%20LATES%20-%20TEMPERATURE%20INFLUENCE%20ON%20THE%20FRICTION%20COEFFICIENT%20OF%20THE%20PA46%20POLYAMIDE%20-%20STEEL%20TYPE%20CONTACTS.pdf">http://www.imtuoradea.ro/auo.fmte/files-2015-v1/Mihai-Tiberiu%20LATES%20-%20TEMPERATURE%20INFLUENCE%20ON%20THE%20FRICTION%20COEFFICIENT%20OF%20THE%20PA46%20POLYAMIDE%20-%20STEEL%20TYPE%20CONTACTS.pdf</a> | 0     | 0,1   |              |  |
|    | Cit. 28.4   | Lateş, M. T., Gavrilă, C. C. <i>Study of the Friction Coefficient in Polyamide / Steel Type Contacts in Non-lubricated Conditions. Applied Mechanics and Materials, vol. 823, 2016, ISSN 1662-7482, p. 485-488.</i><br><a href="http://www.scientific.net/AMM.823.485">http://www.scientific.net/AMM.823.485</a>  | 0     | 0,1   |              |  |
| 29 | <b>Velicu, R.</b> , Lates, M.T., Papuc, R. Friction test ball on flat during running-in period on UMT tribometer In Annals of the Oradea University 2012, Fascicle of Management and Technological Engineering, vol XI(XXI) 2012, nr. 1, p. 2.142-2.147, ISSN 1583ó0691(e)<br><b>Ulrichs Web</b><br><a href="http://imtuoradea.ro/auo.fmte/files-2012-v1/MECANICA/Velicu%20Radu%20L2.pdf">http://imtuoradea.ro/auo.fmte/files-2012-v1/MECANICA/Velicu%20Radu%20L2.pdf</a> | 0   | 0,1   | 0     | <b>0,1</b>   |  |
| 30 | Jaliu, C., <b>Velicu, R.</b> , Papuc, R. Tensioning and guide systems used in chain drives In Annals of the Oradea University 2012, Fascicle of Management and Technological Engineering, vol XI(XXI) 2012, nr. 2, p. 2.17-2.22, ISSN 1583ó0691(e)<br><b>Ulrichs Web</b><br><a href="http://imtuoradea.ro/auo.fmte/files-2012-v2/MECANICA/Jaliu%20Codruta%20L1.pdf">http://imtuoradea.ro/auo.fmte/files-2012-v2/MECANICA/Jaliu%20Codruta%20L1.pdf</a>                     | 0   | 0,1   | 0     | <b>0,1</b>   |  |
| 31 | Moldovean, G., Butuc, B., <b>Velicu, R.</b> Shafts Design of a Gear based Azimuthal Tracked Photovoltaic Platform Revista: Environmental Engineering and Management Journal Vol.10, No. 9, p. 1291-1298 ISSN:1582-9596, 2011<br><b>ISI</b><br><a href="http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol10/no9/14_374_Moldovean_11.pdf">http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol10/no9/14_374_Moldovean_11.pdf</a>   | 1,004   | 1,104 | 1,45  | <b>2,554</b> |  |
|    | Cit. 31.1   | Nadabaica, D.C., Bibire, L., Andrioai, M. <i>Study of the advantages of predictive maintenance in the monitoring of rolling bearings. Environmental Engineering and Management Journal ISSN:1582-9596, 2012</i><br><a href="http://web.a.ebscohost.com/abstract?direct=true">http://web.a.ebscohost.com/abstract?direct=true</a>  | 0,575 | 0,675 |              |  |

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|    |  | &profile=ehost&scope=site&authtype=crawler<br>&jrnl=15829596&AN=85206846&h=FJeYtyde<br>43uJGuA3LuyKMuZb9WodDR5J8mpBbB56r7gs<br>hCSgG4est0E4ZppO%2bO2EmsVLg2EzAUuYJ5<br>0UxOUosQ%3d%3d&crl=c&resultNs=AdminW<br>ebAuth&resultLocal=ErrCrlNotAuth&crlhashur<br>l=login.aspx%3fdirect%3dtrue%26profile%3deh<br>ost%26scope%3dsite%26authtype%3dcrawler%<br>26jrnl%3d15829596%26AN%3d85206846  |       |       |            |  |
|    | Cit.<br>31.2   | <i>Grec, A., Ardelean, D., Roșu, A. Renewable energy--a sustainable and cleaner resource. Case study for Romania. Environmental Engineering and Management Journal ISSN:1582-9596, 2012</i><br><a href="http://web.a.ebscohost.com/abstract?direct=true&amp;profile=ehost&amp;scope=site&amp;authtype=crawler&amp;jrnl=15829596&amp;AN=83723128&amp;h=wslRLSt1%2bZZEhuEwgBVFdTRoybhn61Z6NWk0sBpGxunw1BlsFQ%2bnYADfdPdAZjjSA%2bfzhWWzkkboocIHKLYUEQ%3d%3d&amp;crl=c&amp;resultNs=AdminWebAuth&amp;resultLocal=ErrCrlNotAuth&amp;crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d15829596%26AN%3d83723128">http://web.a.ebscohost.com/abstract?direct=true&amp;profile=ehost&amp;scope=site&amp;authtype=crawler&amp;jrnl=15829596&amp;AN=83723128&amp;h=wslRLSt1%2bZZEhuEwgBVFdTRoybhn61Z6NWk0sBpGxunw1BlsFQ%2bnYADfdPdAZjjSA%2bfzhWWzkkboocIHKLYUEQ%3d%3d&amp;crl=c&amp;resultNs=AdminWebAuth&amp;resultLocal=ErrCrlNotAuth&amp;crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d15829596%26AN%3d83723128</a> | 0,575 | 0,675 |            |  |
|    | Cit.<br>31.3   | <i>Moldovean, G., Gavrilă, C., Butuc, B., Fatigue stress calculation of straight bevel gears applied to a photo voltaic tracking system, Annals Of The Oradea University. Fascicle Of Management And Technological Engineering; p. 205-210, ISSN: 1583-0691(e) 2013</i><br><a href="http://imtuoradea.ro/auo.fimte/files-2013-v1/Moldovean%20Gheorghe.pdf">http://imtuoradea.ro/auo.fimte/files-2013-v1/Moldovean%20Gheorghe.pdf</a>   | 0     | 0,1   |            |  |
| 32 | <b>Velicu, R., Vi a, I.,</b> Moldovean, G., Butuc, B. Profile Shift Coefficients and Thickness Modification Coefficients for Straight Bevel Gears under Static Tooth Root Stress used on PV Tracking Systems. 13th World Congress in Mechanism and Machine Science (IFTToMM), Guanajuato, México, 19-25 June, 2011, ISBN 978-607-441-131-7<br><b>Google Scholar</b><br><a href="http://www.diciva.ugto.mx/directorio/iftomm/Articles%20in%20Final%20Form/A9-411.pdf">http://www.diciva.ugto.mx/directorio/iftomm/Articles%20in%20Final%20Form/A9-411.pdf</a> | 0  | 0,1   | 0     | <b>0,1</b> |  |
| 33 | Moldovean, G., Butuc, B., <b>Velicu, R.,</b> Gavrilă, C.C. Mechanical Efficiency of Straight Bevel Gears used in Photovoltaic Trackers Depending on Geometrical Parameters. 13th World Congress in Mechanism and Machine Science (IFTToMM), Guanajuato, México, 19-25 June, 2011, ISBN 978-607-441-131-7<br><b>Google Scholar</b><br><a href="http://www.diciva.ugto.mx/directorio/iftomm/Articles%20in%20Final%20Form/A9-387.pdf">http://www.diciva.ugto.mx/directorio/iftomm/Articles%20in%20Final%20Form/A9-387.pdf</a>                                   | 0  | 0,1   | 0     | <b>0,1</b> |  |
| 34 | Butuc, B., Moldovean, G., <b>Velicu, R.</b> Wind and weight  | 0  | 0,1   | 0     | <b>0,1</b> |  |

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|----|---|---|-----|-------|--------------|
|    | induced loads on a gear based azimuthal photovoltaic platform International Conference on Renewable Energies and Power Quality (ICREPQ'11), 2011<br>ISSN:2172-038X<br><b>Google Scholar</b><br><a href="http://www.icrepq.com/icrepq'11/394-butuc.pdf">http://www.icrepq.com/icrepq'11/394-butuc.pdf</a>  |   |     |       |              |
| 35 | <b>Velicu, R.</b> , Moldovean, G., Lates, M., Gavrilă, C. The experience of Transilvania University of Braşov in the design of PV tracking systems revista: TEHNOLOGIA INOVATIVă ó Revista şConstruc ia de ma iniö nr. 2/2011, p. 28-34 ISSN: 057367419, 2011<br><b>Google Scholar</b><br><a href="http://www.ictcm.ro/journal/journal/Electronic%20form%20TI%202_2011.pdf">http://www.ictcm.ro/journal/journal/Electronic%20form%20TI%202_2011.pdf</a>   | 0 | 0,1 | 0     | <b>0,1</b>   |
| 36 | <b>Velicu, R.</b> , Dual axes PV tracking system driven by one linear actuator Annals of the Oradea University 2011, Fascicle of Management and Technological Engineering, vol X(XX), nr. 2, 2011, p. 3.114-3.119, ISSN 158360691(e)<br><b>Ulrichs Web</b><br><a href="http://imtuoradea.ro/auo.fmte/files-2011-v2/MECATRONICA/Velicu%20Radu%20L2.pdf">http://imtuoradea.ro/auo.fmte/files-2011-v2/MECATRONICA/Velicu%20Radu%20L2.pdf</a>   | 0 | 0,1 | 0     | <b>0,1</b>   |
| 37 | <b>Velicu, R.</b> , Dual axes PV tracking system with rotational and linear actuator Annals of the Oradea University 2011, Fascicle of Management and Technological Engineering, vol X(XX), nr. 1, 2011, p. 3.115-3.120, ISSN 158360691(e)<br><b>Ulrichs Web</b><br><a href="http://imtuoradea.ro/auo.fmte/files-2011-v1/MECATRONICA/Velicu%20Radu%20L1.pdf">http://imtuoradea.ro/auo.fmte/files-2011-v1/MECATRONICA/Velicu%20Radu%20L1.pdf</a>   | 0 | 0,1 | 0,1   | <b>0,2</b>   |
|    | <i>Cit. 37.1</i> <b>Lateş, M. T., Gavrilă, C. C. Friction phenomenon in polyamide – steel plate front face type contacts. In: Annals of the Oradea University, Fascicle of Management and Technological Engineering, vol. XIII (XXIII), ISSUE 1, 2014, ISSN 1583 – 0691, p. 75-78.</b><br><a href="http://www.imtuoradea.ro/auo.fmte/files-2014-v1/Lates%20Mihai-FRICTION%20PHENOMENON%20IN%20POLYAMIDE%20STEEL%20PLATE%20FRONT%20FACE%20TYPE%20CONTACTS.pdf">http://www.imtuoradea.ro/auo.fmte/files-2014-v1/Lates%20Mihai-FRICTION%20PHENOMENON%20IN%20POLYAMIDE%20STEEL%20PLATE%20FRONT%20FACE%20TYPE%20CONTACTS.pdf</a> | 0 | 0,1 |       |              |
| 38 | <b>Velicu, R.</b> , Moldovean, G. Principles of embodiment design applied on pv solar tracking systems, Quality and innovation in engineering and management. 1st International Conference on Quality and Innovation in Engineering and Management (QIEM), p. 519-523, 2011<br><b>ISI</b><br><a href="http://apps.webofknowledge.com/full_record.do?product=WOS&amp;search_mode=GeneralSearch&amp;qid=1&amp;SID=1DndW6OdDMBSogFBBS1&amp;page=1&amp;doc=10">http://apps.webofknowledge.com/full_record.do?product=WOS&amp;search_mode=GeneralSearch&amp;qid=1&amp;SID=1DndW6OdDMBSogFBBS1&amp;page=1&amp;doc=10</a>          | 0 | 0,1 | 0     | <b>0,1</b>   |
| 39 | <b>Velicu, R.</b> , Moldovean, G., Scaletchi, I., Butuc, B. Wind loads on an azimuthal photovoltaic platform.   | 0 | 0,1 | 6,888 | <b>6,988</b> |

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|-----------|---|-------|-------|---|------------|
|           | Experimental study. International Conference on Renewable Energies and Power Quality (ICREPQ10), 2010 ISSN:2172-038X<br><b>Google Scholar</b><br><a href="http://www.icrepq.com/icrepq'10/347-Velicu.pdf">http://www.icrepq.com/icrepq'10/347-Velicu.pdf</a>  |       |       |   |            |
| Cit. 39.1 | CK Lin, CY Dai, JC Wu Analysis of structural deformation and deformation-induced solar radiation misalignment in a tracking photovoltaic system, Renewable Energy, 2013 ó Elsevier<br><a href="http://ac.els-cdn.com/S0960148113001870/1-s2.0-S0960148113001870-main.pdf?_tid=cbede78e-ef18-11e4-80ca-00000aab0f26&amp;acdnat=1430385230_ed3dfd056d7fdcf892f51dcf6b82f8f1">http://ac.els-cdn.com/S0960148113001870/1-s2.0-S0960148113001870-main.pdf?_tid=cbede78e-ef18-11e4-80ca-00000aab0f26&amp;acdnat=1430385230_ed3dfd056d7fdcf892f51dcf6b82f8f1</a>     | 2,989 | 3,089 |   |            |
| Cit. 39.2 | <i>JM González Mendoza, C Palacios Montúfar Analytical synthesis for four-bar mechanisms used in a pseudo-equatorial solar tracker</i> Ingeniería e Investigación, ISSN 0120-5609, 2013<br><a href="http://www.scielo.org.co/scielo.php?pid=S0120-56092013000300010&amp;script=sci_arttext&amp;tlng=en">http://www.scielo.org.co/scielo.php?pid=S0120-56092013000300010&amp;script=sci_arttext&amp;tlng=en</a>  | 0,038 | 0,138 |   |            |
| Cit. 39.3 | <i>A Abiola-Ogedengbe, H Hangan, K Siddiqui Experimental investigation of wind effects on a standalone photovoltaic (PV) module,</i> Renewable Energy, 2015 – Elsevier, ISSN 0960-1481<br><a href="http://ac.els-cdn.com/S0960148115000555/1-s2.0-S0960148115000555-main.pdf?_tid=78bc873a-ef1a-11e4-a072-00000aab0f01&amp;acdnat=1430385950_d013ab51ff4c7d1e7e23a2d6a386f75a">http://ac.els-cdn.com/S0960148115000555/1-s2.0-S0960148115000555-main.pdf?_tid=78bc873a-ef1a-11e4-a072-00000aab0f01&amp;acdnat=1430385950_d013ab51ff4c7d1e7e23a2d6a386f75a</a> | 3,361 | 3,461 |   |            |
| Cit. 39.4 | <i>YS Chumakov, VD Rumyantsev, YV Ascheulov, A comparative analysis of wind pressure on flat and stair-step constructions of solar plant trackers</i> Journal: Physics and Mathematics, Vol.1, 2015 - Elsevier<br><a href="http://www.sciencedirect.com/science/article/pii/S2405722315300475">http://www.sciencedirect.com/science/article/pii/S2405722315300475</a>   | 0     | 0,1   |   |            |
| Cit. 39.5 | <i>Valery D. Rumyantsev, Yury V. Ashcheulov, Alexander V. Chekalin Yury S. Chumakov, M. Z. Shvarts, Vladimir V. Timofeev Indoor modeling of the wind pressure in solar installations with flat and step-like frames for HCPV modules, AIP Conf. Proc. 1616, 233-236 (2014); doi: 10.1063/1.4897068</i><br><a href="http://aip.scitation.org/doi/pdf/10.1063/1.4897068">http://aip.scitation.org/doi/pdf/10.1063/1.4897068</a>   | 0     | 0,1   |   |            |
| 40        | <b>Velicu, R., Bozan, C.</b> Gear ratios of planetary double stepmultipliers for wind turbines from minimum volume criterion. Machine Design 2010, University of NoviSad, p. 137-140, 2010, ISSN 1821-1259<br><b>Copernicus, Google Scholar</b><br><a href="http://www.mdesign.ftn.uns.ac.rs/pdf/2010/137-">http://www.mdesign.ftn.uns.ac.rs/pdf/2010/137-</a>  | 0     | 0,1   | 0 | <b>0,1</b> |

|    |  |       |       |       |              |
|----|--|-------|-------|-------|--------------|
|    | 140_for_web.pdf  |       |       |       |              |
| 41 | Scaletchi, I., Visa, I., <b>Velicu, R.</b> Modeling Wind Action On Solar Tracking PV Platforms. Bulletin Of The Transilvania University Of Brasov ÉVol.3 (52)-2010 Series I - Engineering Sciences, 2010, issn:2065-2119<br><b>Google Scholar</b><br><a href="http://webbut.unitbv.ro/bu2010/Series%20I/BULETIN%20I%20PDF/Industrial%20Engineering/Scaletschi%20I.pdf">http://webbut.unitbv.ro/bu2010/Series%20I/BULETIN%20I%20PDF/Industrial%20Engineering/Scaletschi%20I.pdf</a>   | 0     | 0,1   | 0     | <b>0,1</b>   |
|    | <i>Cit. 41.1</i> YS Chumakov, VD Rumyantsev, YV Ascheulov, A comparative analysis of wind pressure on flat and stair-step constructions of solar plant trackers <i>Journal: Physics and Mathematics, Vol.1, 2015 - Elsevier</i><br><a href="http://www.sciencedirect.com/science/article/pii/S2405722315300475">http://www.sciencedirect.com/science/article/pii/S2405722315300475</a>   | 0     | 0,1   |       |              |
| 42 | Moldovean, G., Butuc, B., <b>Velicu, R.</b> Dual Axis Tracking System with a Single Motor revista:Mechanism and Machine Science, Volume 5. New Trends in Mechanism Science. Analysis and Design. Springer. Eucomes, p. 649-656, 2010, ISBN: 978-90-481-9688-3<br><b>Springer</b><br><a href="http://link.springer.com/chapter/10.1007/978-90-481-9689-0_74">http://link.springer.com/chapter/10.1007/978-90-481-9689-0_74</a>  | 0     | 0,1   | 2,308 | <b>2,408</b> |
|    | <i>Cit. 42.1</i> Butuc, B., Moldovean, G. Environmental impact scenario of an azimuthal tracked pv platform based on co2 emissions reduction, <i>Environmental Engineering &amp; Management Journal (EEMJ), 2011, Vol. 10 Issue 2, p271-276</i><br><a href="http://web.a.ebscohost.com/abstract?direct=true&amp;profile=ehost&amp;scope=site&amp;authtype=crawler&amp;jrnl=15829596&amp;AN=60448824&amp;h=eUZ4qkPtP8kHzyMxPBOuNmLsWAXxBvVARIRVoYJL%2fTx78hUt0B8aWIoDAav%2b00EwGyXhhvYy%2bjldkKHhDLy8A%3d%3d&amp;crl=c&amp;resultNs=AdminWebAuth&amp;resultLocal=ErrCrlNotAuth&amp;crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d15829596%26AN%3d60448824">http://web.a.ebscohost.com/abstract?direct=true&amp;profile=ehost&amp;scope=site&amp;authtype=crawler&amp;jrnl=15829596&amp;AN=60448824&amp;h=eUZ4qkPtP8kHzyMxPBOuNmLsWAXxBvVARIRVoYJL%2fTx78hUt0B8aWIoDAav%2b00EwGyXhhvYy%2bjldkKHhDLy8A%3d%3d&amp;crl=c&amp;resultNs=AdminWebAuth&amp;resultLocal=ErrCrlNotAuth&amp;crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d15829596%26AN%3d60448824</a> | 1,004 | 1,104 |       |              |
|    | <i>Cit. 42.2</i> MM Vătăşescu, D Diaconescu Clean energy response of pv systems with azimuth and pseudo-equatorial tracking. <i>Environmental Engineering &amp; Management Journal (EEMJ), 2011, Vol. 10 Issue 9, p1395-1406</i><br><a href="http://web.a.ebscohost.com/abstract?direct=true&amp;profile=ehost&amp;scope=site&amp;authtype=crawler&amp;jrnl=15829596&amp;AN=67211164&amp;h=zZd0GUBy2VsIyJzxhlS5Rvsghf9maAXgaamaOUzmpUB%2b13sGznirB2ffLBjIGGDcbAxBXT0xsCwKiNm%2f8kfw%3d%3d&amp;crl=c&amp;resultNs=AdminWebAuth&amp;resultLocal=ErrCrlNotAuth&amp;crlhashurl=">http://web.a.ebscohost.com/abstract?direct=true&amp;profile=ehost&amp;scope=site&amp;authtype=crawler&amp;jrnl=15829596&amp;AN=67211164&amp;h=zZd0GUBy2VsIyJzxhlS5Rvsghf9maAXgaamaOUzmpUB%2b13sGznirB2ffLBjIGGDcbAxBXT0xsCwKiNm%2f8kfw%3d%3d&amp;crl=c&amp;resultNs=AdminWebAuth&amp;resultLocal=ErrCrlNotAuth&amp;crlhashurl=</a>  | 1,004 | 1,104 |       |              |

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|    |           | <a href="http://login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26auth%3dcrawler%26jrn%3d15829596%26AN%3d67211164">login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26auth%3dcrawler%26jrn%3d15829596%26AN%3d67211164</a>   |      |      |      |             |
|    | Cit. 42.3 | Moldovean, G., Gavrilă, C., Butuc, B., <i>Fatigue stress calculation of straight bevel gears applied to a photo voltaic tracking system, Annals Of The Oradea University. Fascicle Of Management And Technological Engineering; p. 205-210, ISSN: 1583-0691(e) 2013</i><br><a href="http://imtuoradea.ro/auo.fmte/files-2013-v1/Moldovean%20Gheorghe.pdf">http://imtuoradea.ro/auo.fmte/files-2013-v1/Moldovean%20Gheorghe.pdf</a> | 0    | 0,1  |      |             |
| 43 |           | Butuc, B., Moldovean, G., <b>Velicu, R.</b> On the influence of geometry over the contact stress of straight bevel gears Machine Design, p. 153-158, 2010, ISSN:1821-1259<br><b>Copernicus, Google Scholar</b><br><a href="http://www.mdesign.ftn.uns.ac.rs/pdf/2010/153-158_for_web.pdf">http://www.mdesign.ftn.uns.ac.rs/pdf/2010/153-158_for_web.pdf</a>  | 0    | 0,1  | 0,3  | <b>0,4</b>  |
|    | Cit. 43.1 | Moldovean, G., Gavrilă, C., Butuc, B., <i>Fatigue stress calculation of straight bevel gears applied to a photo voltaic tracking system, Annals Of The Oradea University. Fascicle Of Management And Technological Engineering; p. 205-210, ISSN: 1583-0691(e) 2013</i><br><a href="http://imtuoradea.ro/auo.fmte/files-2013-v1/Moldovean%20Gheorghe.pdf">http://imtuoradea.ro/auo.fmte/files-2013-v1/Moldovean%20Gheorghe.pdf</a> | 0    | 0,1  |      |             |
|    | Cit. 43.2 | G Moldovean, CC Gavrilă <i>Bevel gears geometry influence on the load sharing factor Zls, Annals of the Oradea University 2011, Fascicle of Management and Technological Engineering, vol X(XX), nr. 2, 2011</i><br><a href="http://imtuoradea.ro/auo.fmte/files-2011-v1/MECANICA/Moldovean%20Gheorghe%20L2.pdf">http://imtuoradea.ro/auo.fmte/files-2011-v1/MECANICA/Moldovean%20Gheorghe%20L2.pdf</a>                            | 0    | 0,1  |      |             |
|    | Cit. 43.3 | G Moldovean, D Velicu, L Huidan <i>The influence of the spiral bevel gears geometry on the global geometric factor, Annals of the Oradea University 2011, Fascicle of Management and Technological Engineering, vol X(XX), nr. 2, 2011</i><br><a href="http://imtuoradea.ro/auo.fmte/files-2011-v2/MECANICA/Moldovean%20Gheorghe%20L1.pdf">http://imtuoradea.ro/auo.fmte/files-2011-v2/MECANICA/Moldovean%20Gheorghe%20L1.pdf</a>  | 0    | 0,1  |      |             |
| 44 |           | <b>Velicu, R., Lates, M., Moldovean, Gh.</b> Loading Cases and Forces on Azimuthal Solar Tracking Systems with Linear Actuators. Proceedings of SYROM 2009, Bra ov, Romania, p. 723-733. Springer Verlag, 2009, ISBN 978-90-481-3521-1<br><b>Springer</b><br><a href="http://www.springer.com/engineering/mechanical+eng/book/978-90-481-3521-9">http://www.springer.com/engineering/mechanical+eng/book/978-90-481-3521-9</a>     | 0    | 0,1  | 1,83 | <b>1,93</b> |
|    | Cit 44.1  | Alexandru, C. <i>A novel open-loop tracking strategy for photovoltaice systems. The Scientific</i>   | 1,73 | 1,83 |      |             |

|    |  |       |       |       |              |
|----|--|-------|-------|-------|--------------|
|    | <p><i>World Journal, vol. 2013, Hindawi Publishing Corporation, ISSN 1537-744X, p. 12.</i></p> <p><b>ISI</b></p> <p><a href="http://www.hindawi.com/journals/tswj/2013/205396/">http://www.hindawi.com/journals/tswj/2013/205396/</a></p>  |       |       |       |              |
| 45 | <p>Bozan, C., <b>Velicu, R.</b>, Moldovean, G. Gear ratios of double step multipliers for wind turbines from minimum volume condition. International Conference General Machine Design, Ruse 48 (4), p. 184-188, 2009, ISSN: 1311-3321</p> <p><b>Google Scholar</b></p> <p><a href="http://conf.uni-ruse.bg/bg/docs/cp09/4/4-33.pdf">http://conf.uni-ruse.bg/bg/docs/cp09/4/4-33.pdf</a></p>   | 0     | 0,1   | 0     | <b>0,1</b>   |
| 46 | <p><b>Velicu, R.</b>, Moldovean, Gh., Bozan, C. On the position of the single pair tooth segment relative to the pitch point, for internal gears, with effect on contact stress calculus. Proceedings of Eucomesø2008, The Second European Conference on Mechanism Science, Monte-Casino, Italia, Springer Verlag, 2009, XXVI, ISBN:978-1-4020-8914-5</p> <p><b>ISI</b></p> <p><a href="http://link.springer.com/chapter/10.1007/978-1-4020-8915-2_49">http://link.springer.com/chapter/10.1007/978-1-4020-8915-2_49</a></p> | 0     | 0,1   | 0     | <b>0,1</b>   |
| 47 | <p>Lates, M., <b>Velicu, R.</b>, Hansen, P.U. Design process of the PV panels tracking systems Annals of the Oradea University 2009, Fascicle of Management and Technological Engineering, vol XVIII(VIII), 2009, ISSN 158360691(e) DOI: 10.15660/AUOFMTE.2009.1501</p> <p><b>Ulrichs Web</b></p> <p><a href="http://imtuoradea.ro/auo.fmte/files-2009/MECATRONICA_files/LATES%20Mihai-Tiberiu2.pdf">http://imtuoradea.ro/auo.fmte/files-2009/MECATRONICA_files/LATES%20Mihai-Tiberiu2.pdf</a></p>                           | 0     | 0,1   | 0     | <b>0,1</b>   |
| 48 | <p>Gavrila, C.C., <b>Velicu, R.</b> Kinematics of mobile transversal coupling, as multibody system revista:Proceedings of 6th International Conference of DAAAM Baltic INDUSTRIAL ENGINEERING, 2008, ISSN:2346-6138</p> <p><b>ISI</b></p> <p><a href="http://innomet.ttu.ee/daaam_publications/2008/Design%20Engineering/Gavrila.pdf">http://innomet.ttu.ee/daaam_publications/2008/Design%20Engineering/Gavrila.pdf</a></p>   | 0     | 0,1   | 0     | <b>0,1</b>   |
| 49 | <p><b>Velicu, R.</b> On the mechanical efficiency of 1 DOF two-planetary groups Machine Design, p. 68-74, 2008, ISBN:978-86-7892-105-6</p> <p><b>Copernicus, Google Scholar</b></p> <p><a href="http://www.mdesign.ftn.uns.ac.rs/pdf/2008/069-074_for_web.pdf">http://www.mdesign.ftn.uns.ac.rs/pdf/2008/069-074_for_web.pdf</a></p>   | 0     | 0,1   | 0,235 | <b>0,335</b> |
|    | <p><i>S Troha, N Lovrin, M Milovančević</i> Selection of the two-carrier shifting planetary gear train controlled by clutches and brakes, Transactions of FAMENA, 2012 - hrcak.srce.hr ISSN 1333-1124</p> <p><a href="http://scholar.google.com/scholar_url?url=http%3A%2F%2Fhrcak.srce.hr%2Ffile%2F132175">http://scholar.google.com/scholar_url?url=http%3A%2F%2Fhrcak.srce.hr%2Ffile%2F132175</a></p>   | 0,135 | 0,235 |       |              |



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|----|---|---|-----|-----|------------|
|    | <p><i>&amp;hl=ro&amp;sa=T&amp;oi=gga&amp;ct=gga&amp;cd=0&amp;ei=dpCcWI76NoedjAG1mKq4DA&amp;scisig=AAGBfm2dp4W2Yp2v5fOYVIDIRZti9rNhVg&amp;nossl=1&amp;ws=1366x622</i></p> <p><a href="http://hrcak.srce.hr/index.php?show=toc&amp;id_broj=7154">http://hrcak.srce.hr/index.php?show=toc&amp;id_broj=7154</a></p>   |   |     |     |            |
| 50 | <p>Deaky, B., Moldovean, G., <b>Velicu, R.</b> Multi-criteria optimization of the external cylindrical gears Machine Design, p. 47-52, 2008, ISBN:978-86-7892-105-6<br/><b>Copernicus, Google Scholar</b><br/><a href="http://www.mdesign.ftn.uns.ac.rs/pdf/2008/047-052_for_web.pdf">http://www.mdesign.ftn.uns.ac.rs/pdf/2008/047-052_for_web.pdf</a></p>   | 0 | 0,1 | 0   | <b>0,1</b> |
| 51 | <p><b>Velicu, R.</b> On the performance of a two-planetary group gearbox Bulletin of the Transilvania University of Brasov, Series I: Engineering Sciences, vol 1, 2008, ISSN: 2065-2119<br/><b>Google Scholar</b><br/><a href="http://webbut.unitbv.ro/bu2008/cautare/Velicu%20R_08.pdf">http://webbut.unitbv.ro/bu2008/cautare/Velicu%20R_08.pdf</a></p>  | 0 | 0,1 | 0   | <b>0,1</b> |
| 52 | <p>Bozan, C., Moldovean, G., <b>Velicu, R.</b> Structural synthesis on speed multipliers with fixed axle gear used in wind turbine Bulletin of the Transilvania University of Brasov, Series I: Engineering Sciences, vol 1, 2008, ISSN: 2065-2119<br/><b>Google Scholar</b><br/><a href="http://rs.unitbv.ro/BU2008/BU2008/BULETIN%20I%20PDF/Industrial%20Engineering/Bozan%20CA_08.pdf">http://rs.unitbv.ro/BU2008/BU2008/BULETIN%20I%20PDF/Industrial%20Engineering/Bozan%20CA_08.pdf</a></p>          | 0 | 0,1 | 0   | <b>0,1</b> |
| 53 | <p><b>Velicu, R.</b>, Lates, R. Adapted stand for testing flat plate solar thermal collectors Annals of the Oradea University, Fascicle of Management and Technological Engineering, vol XVII(VII), p. 1165-1171, 2008, ISSN 158360691(e) DOI: 10.15660/AUOFMTE.2008.1095<br/><b>Google Scholar</b><br/><a href="http://imtuoradea.ro/auo.fimte/files-2008/MECATRONICA_files/VELICU%20RADU%201.pdf">http://imtuoradea.ro/auo.fimte/files-2008/MECATRONICA_files/VELICU%20RADU%201.pdf</a></p>             | 0 | 0,1 | 0   | <b>0,1</b> |
| 54 | <p>Deaky, B.A., <b>Velicu, R.</b>, Moldovean, G. Software for multi-criteria optimisation of external cylindrical gears Annals of the Oradea University, Fascicle of Management and Technological Engineering, vol XVII(VII), p. 1328-1337, 2008, ISSN 158360691(e) DOI: 10.15660/AUOFMTE.2008.1126<br/><b>Google Scholar</b><br/><a href="http://imtuoradea.ro/auo.fimte/files-2008/TCM_files/DEAKY%20BOGDAN%201.pdf">http://imtuoradea.ro/auo.fimte/files-2008/TCM_files/DEAKY%20BOGDAN%201.pdf</a></p> | 0 | 0,1 | 0   | <b>0,1</b> |
| 55 | <p><b>Velicu, R.</b> Synthesis of two-planetary group gearboxes, based on optimizing criteria Machine Design, p. 217-222, 2007, ISBN:978-86-7892-105-6<br/><b>Copernicus, Google Scholar</b><br/><a href="http://www.mdesign.ftn.uns.ac.rs/pdf/2007/36-10_velicu_radu_romania_for_web.pdf">http://www.mdesign.ftn.uns.ac.rs/pdf/2007/36-10_velicu_radu_romania_for_web.pdf</a></p>  | 0 | 0,1 | 0   | <b>0,1</b> |
| 56 | <p>Moldovean, G., Velicu, D., <b>Velicu, R.</b> On the maximal contact stress point for cylindrical gears. Proceedings of</p>   | 0 | 0,1 | 2,3 | <b>2,4</b> |

|                      |  |       |       |   |               |
|----------------------|--|-------|-------|---|---------------|
|                      | Twelfth World Congress in Mechanism and Machine Science IFToMM 2007<br><b>Google Scholar</b><br><a href="http://www.iftomm.org/iftomm/proceedings/proceedings_WorldCongress/WorldCongress07/articles/sessions/papers/A869.pdf">http://www.iftomm.org/iftomm/proceedings/proceedings_WorldCongress/WorldCongress07/articles/sessions/papers/A869.pdf</a>  |       |       |   |               |
|                      | <i>H. K. Sachidananda, K. Raghunandana &amp; J. Gonsalvis Design of Spur Gears Using Profile Modification, Journal Tribology Transactions Volume 58, 2015 - Issue 4, ISSN 1040-2004</i><br><a href="http://www.tandfonline.com/doi/abs/10.1080/10402004.2015.1010762">http://www.tandfonline.com/doi/abs/10.1080/10402004.2015.1010762</a>   | 1,081 | 1,181 |   |               |
|                      | <i>H. K. Sachidananda, K. Raghunandana &amp; J. Gonsalvis, Sliding velocity in profile-corrected gears, Lubrication Science, 2017, ISSN 0954-0075</i><br><a href="http://onlinelibrary.wiley.com/doi/10.1002/ls.1348/full">http://onlinelibrary.wiley.com/doi/10.1002/ls.1348/full</a>   | 1,019 | 1,119 |   |               |
| 57                   | Moldovean, G., Deaky, B.A., <b>Velicu, R.</b> The influence of some of the cylindrical gear parameters on the critical rotation Annals of the Oradea University, Fascicle of Management and Technological Engineering, vol XVI(VI), p. 890-897, 2007, ISSN 158360691(e) DOI: 10.15660/AUOFMTE.2007.625<br><b>Google Scholar</b><br><a href="http://imtuoradea.ro/auo.fimte/files-2007/MECATRONICA_files/Moldovean_Gheorghe_1.pdf">http://imtuoradea.ro/auo.fimte/files-2007/MECATRONICA_files/Moldovean_Gheorghe_1.pdf</a> | 0     | 0,1   | 0 | <b>0,1</b>    |
| 58                   | <b>Velicu, R.</b> On the mechanical efficiency of speed multipliers for wind turbines Annals of the Oradea University, Fascicle of Management and Technological Engineering, vol XVI(VI), p. 1078-1081, 2007, ISSN 158360691(e) DOI: 10.15660/AUOFMTE.2007.656<br><b>Google Scholar</b><br><a href="http://imtuoradea.ro/auo.fimte/files-2007/MECATRONICA_files/Velicu_Radu_1.pdf">http://imtuoradea.ro/auo.fimte/files-2007/MECATRONICA_files/Velicu_Radu_1.pdf</a>   | 0     | 0,1   | 0 | <b>0,1</b>    |
| <b>Total CDI-ART</b> |  |       |       |   | <b>25,000</b> |

### Criteriul CDI-BRV

| Nr. crt. | Denumire   | Punctaj |
|----------|--|---------|
| 1        | Butuc B., <b>Velicu R.</b> , Moldovean G. Sistem de orientare dup două axe cu un singur motor, RO 126150 B1, 2012<br><a href="http://apps.webofknowledge.com/full_record.do?product=DIIDW&amp;search_mode=GeneralSearch&amp;qid=1&amp;SID=3DQcfNLYeJs21ELDa3n&amp;page=1&amp;doc=6&amp;colname=DIIDW">http://apps.webofknowledge.com/full_record.do?product=DIIDW&amp;search_mode=GeneralSearch&amp;qid=1&amp;SID=3DQcfNLYeJs21ELDa3n&amp;page=1&amp;doc=6&amp;colname=DIIDW</a> | 1       |
| 2        | Visa I., Ciobanu D., Diaconescu D., <b>Velicu R.</b> Reductor cu came cardioide, RO125178-B1, 2014<br><a href="http://apps.webofknowledge.com/full_record.do?product=DIIDW&amp;search_mode=OneClickSearch&amp;qid=3&amp;SID=3DQcfNLYeJs21ELDa3n&amp;page=1&amp;doc=7&amp;colname=DIIDW">http://apps.webofknowledge.com/full_record.do?product=DIIDW&amp;search_mode=OneClickSearch&amp;qid=3&amp;SID=3DQcfNLYeJs21ELDa3n&amp;page=1&amp;doc=7&amp;colname=DIIDW</a>              | 1       |
| 3        | Vi a I., Du Capr A., Diaconescu D., V t escu M., Hermenean I., <b>Săulescu R., Velicu R.,</b> o u I., Mecanism de orientare A/00676/29.07.2010, brevet nr. RO126334-B1   | 1       |

|   |          |
|---|----------|
| <a href="http://apps.webofknowledge.com/full_record.do?product=DIIDW&amp;search_mode=OneClickSearch&amp;qid=5&amp;SID=3DQcfNLYeJs21ELDa3n&amp;page=1&amp;doc=4&amp;colname=DIIDW">http://apps.webofknowledge.com/full_record.do?product=DIIDW&amp;search_mode=OneClickSearch&amp;qid=5&amp;SID=3DQcfNLYeJs21ELDa3n&amp;page=1&amp;doc=4&amp;colname=DIIDW</a> | <b>3</b> |
| <b>Total CDI- BRV</b>   |          |

### Criteriul CDI-MON

| Nr. crt.             | Denumire  | Nr. pagini | Punctaj      |
|----------------------|---|------------|--------------|
| 1                    | Moldovean, Gh., Chi u, E., Jula, A., <b>Velicu, R.</b> , Vi a, I., Eftimie, E., Velicu, D., Oprean, D., Vântu, M. Calculul și proiectarea formei arborilor drepi. Editura Lux Libris, Bra ov, 1998. ISBN 973-9240-56-9                                      | 196        | 3,92         |
| 3                    | Chi u, E., Moldovean, Gh., Velicu, D., Mogan, Gh., Jula, A., Florea, V., Eftimie, E., <b>Velicu, R.</b> , Stroe, I., Late , M. T. Cuplaje mecanice intermitente și cu contacte mobile. Bra ov, Editura Lux Libris, ISBN 973 6 9428 6 19 6 0, 1999.          | 374        | 7,48         |
| 4                    | Jula, A., Chi u, E., Moldovean, Gh., Velicu, D., S vescu, D., Mogan, Gh., <b>Velicu, R.</b> , Eftimie, E., Pozna, C., Oprean, D., Late , M. T. Mecanisme urub ó piuli . Îndrumar de proiectare. Bra ov, Editura Lux Libris, ISBN 973 6 9428 6 10 6 7, 2000. | 269        | 5,38         |
| 5                    | Moldovean, Gh., Velicu, D., <b>Velicu, R.</b> , Jula, A., Chi u, E., Vi a, I., Huidan, L., Gavril , C.C. Angrenaje cilindrice și conice. Teorie și construc ie. Editura Lux Libris, Bra ov, 2001. ISBN 973-9124-110-7                                       | 190        | 3,8          |
| 6                    | Moldovean, Gh., Velicu, D., Chi u, E., <b>Velicu, R.</b> , Jula, A., Vi a, I., Gavril , C.C. Angrenaje cilindrice și conice. Metodici de proiectare. Editura Lux Libris, Bra ov, 2002. ISBN 973-9124-142-7  | 308        | 6,16         |
| 7                    | Moldovean, Gh., Velicu, D., <b>Velicu, R.</b> , Gavril , C.C. Angrenaje hipoide. Calcul geometric si de rezistenta Editura:Lux Libris ISBN 973-635-866-6, 2007  | 148        | 2,96         |
| 8                    | Moldovean, Gh., Velicu, D., <b>Velicu, R.</b> Proiectarea angrenajelor conice si hipoide Editura:Universitatii Transilvania ISBN973-635-371-0, 2004   | 242        | 4,84         |
| <b>Total CDI-MON</b> |   |            | <b>34,54</b> |

### CRITERIUL DID – Activitate didactică

| Indicatori CDI                  | Descriere   | Punctaj                          | Observații   | Punctaj     |
|---------------------------------|---|----------------------------------|--|-------------|
| <b>DID-MSC (minim 6 puncte)</b> | Manuale ó suport curs                             | 1 punct = 50 pagini              | Candidatul trebuie s fie autor unic sau prim autor | <b>7,5</b>  |
| <b>DID-LAB</b>                  | Laboratoare / satnduri pentru activit i didactice | 1 punct = 1 lucrare de laborator |  | <b>8</b>    |
| <b>DID-PIE</b>                  | Platforme informatice educa ionale                |                                  |  | <b>0</b>    |
| <b>Standard minimal</b>         |   | <b>10 puncte</b>                 | Total  | <b>13,5</b> |

### Criteriul DID-MSC

| Nr. crt. | Denumire   | Nr. pagini | Punctaj |
|----------|--|------------|---------|
| 1        | <b>Velicu, R.</b> Organe de ma ini Editura Universit ii õTransilvaniaö din Bra ov ISBN 973-635-127-0, 2003 | 180        | 3,6     |

|                     |  |     |            |
|---------------------|--|-----|------------|
| 2                   | <b>Velicu, R.</b> Angrenaje cilindrice. Reductoare cilindrice Editura Universit ii<br>Transilvania din Bra ov ISBN 973-635-115-7, 2002 | 195 | 3,9        |
| <b>Total DID-MS</b> |  |     | <b>7,5</b> |

### Criteriul DID-LAB

| Nr. crt.             | Denumire   | Punctaj |          |
|----------------------|--|---------|----------|
| 1                    | Determinarea coeficientilor de frecare in cupla surub-piulita si pe suprafata de asezare a piulitei                    | 1       |          |
| 2                    | Studiul ungerii rulmentilor pinionului unui angrenaj hipoid  | 1       |          |
| 3                    | Determinarea caracteristicii elastice a arcurilor elicoidale cilindrice de compresiune si tractiune de dimensiuni mici | 1       |          |
| 4                    | Determinarea momentului capabil al unei asamblari cu bratară elastica  | 1       |          |
| 5                    | Determinarea factorului de forma al dintelui YFa   | 1       |          |
| 6                    | Calculul arborilor   | 1       |          |
| 7                    | Calculul angrenajelor cilindrice   | 1       |          |
| 8                    | Calculul angrenajelor conice   | 1       |          |
| <b>Total DID-LAB</b> |  |         | <b>8</b> |

### CRITERIUL RIA – Recunoașterea și impactul activității

| Indicatori RIA                     | Descriere   | Punctaj   | Punctaj        |
|------------------------------------|---|---|----------------|
| <b>RIA-GRA1</b>                    | Director sau responsabil partener grant interna ional             | 1 punct = 10.000 Euro                           | -              |
| <b>RIA-GRA2</b>                    | Membru în echip grant interna ional                               | Se acord 0,25 puncte în loc de 1 punct director | 10,423         |
| <b>RIA-GRA3</b>                    | Director sau responsabil partener grant na ional                  | 1 punct = 50.000 Ron                            | -              |
| <b>RIA-GRA4</b>                    | Membru în echip grant na ional                                    | Se acord 0,25 puncte în loc de 1 punct director | 430.352        |
| <b>RIA-CTR1</b>                    | Director contract cu beneficiar din mediul economic interna ional | 1 punct = 2.000 Euro                            | 84,123         |
| <b>RIA-CTR2</b>                    | Membru contract cu beneficiar din mediul economic interna ional   | Se acord 0,25 puncte în loc de 1 punct director | -              |
| Standard minimal Director 6 puncte |   | Total Director GRA1+GRA3+CTR1                   | <b>84,123</b>  |
| Total Membru GRA2+GRA4+CTR2        |   |   | <b>440,775</b> |
| Standard minimal RIA 10 puncte     |   | Total RIA                                       | <b>524,898</b> |
|                                    |   |   |                |

### Criteriul RIA-GRA2 – Membru grant national

| Nr. crt. | Denumire   | Funcția în proiect | Valoare      | Punctaj |
|----------|--|--------------------|--------------|---------|
| 1        | SEE - Eu Tool - Sustainable energy for high school education - an european training tool perioada:2006-2008 finantator:Program Comenius NrContract:226362-CP-1-2005-1-RO-COMENIUS-C21, Grant International | Membru             | 218.154 Euro | 5,453   |
| 2        | ADEPT-Advanced Computer Aided Design Of Ecological   | Membru             | 198.800      | 4,97    |

|                              |  |  |      |               |
|------------------------------|--|--|------|---------------|
|                              | Products And Technologies Integrating Green Energy Sources perioada:2002-2005 finantator:Program FP6 NrContract:G1MA-CT-2002-04038 |  | Euro |               |
| <b>Total Membru RIA-GRA2</b> |  |  |      | <b>10,423</b> |

#### **Criteriul RIA-GRA4 – Membru grant national**

| <b>Nr. crt.</b>              | <b>Denumire</b>   | <b>Funcția în proiect</b> | <b>Valoare</b>    | <b>Punctaj</b> |
|------------------------------|---|---------------------------|-------------------|----------------|
| 1                            | Cre terea eficientei conversiei energiei solare în platforme fotovoltaice orientabile PLATSOL-PV, Proiect PNII, perioada:2007-2010 finantator:Ministerul Educatiei Nationale NrContract:CNCSIS Parteneriate 21-003/2007 NrAniDerulare:3 | Membru                    | 404.021<br>Ron    | 2,02           |
| 2                            | Studii teoretice (numerice) și experimentale asupra cuplajelor mecanice cu contacte mobile. Perioada:2001-2002, finantator :Ministerul Educatiei Nationale NrContract:CNCSIS 6/1261/TEMA8 / 2001 NrAniDerulare:2                        | Membru                    | 153.751<br>Ron    | 0,768          |
| 3                            | Materiale multifunctionale pentru conversia eficienta a energiei solare in energie termica perioada:20062008 finantator:CEEX NrContract:277/2006 NrAniDerulare:3  | Membru                    | 528.000<br>Ron    | 2,64           |
| 4                            | Sta ie autonom de monitorizare cu aplicatii în domeniul energiei fotovoltaice și al protecției mediului, perioada: 2008-2011 finantator:Ministerul Educatiei Nationale NrContract:Parteneriate 22-101/2008 NrAniDerulare:3              | Membru                    | 193.169<br>Ron    | 0,965          |
| 5                            | Sisteme mecanice noi pentru cre terea eficientei conversiei energiei solare în energie electrică perioada:20062008 finantator:CEEX NrContract:752/2006 NrAniDerulare:3  | Membru                    | 605.000<br>Ron    | 3,025          |
| 6                            | Institut de Cercetare Dezvoltare Inovare Produse HighTech pentru Dezvoltare Durabila PRODD- sisteme de energii regenerabile și reciclare perioada:20092013 finantator:POS-CCE OI:ANCS NrContract:11/2009 NrAniDerulare:4                | Membru                    | 84.186.994<br>Ron | 420,934        |
| <b>Total Membru RIA-GRA4</b> |   |                           |                   | <b>430.352</b> |

#### **Criteriul RIA-CTR - Director**

| <b>Nr. crt.</b>               | <b>Denumire</b>  | <b>Funcția în proiect</b> | <b>Valoare</b>  | <b>Punctaj</b> |
|-------------------------------|--|---------------------------|-----------------|----------------|
| 1                             | CDS Dynamic Tribology, perioada:2012-2015, finantator:Schaeffler Group NrContract:4029/2008-AA3/2012 NrAniDerulare:3 | <b>Director</b>           | 121.674<br>Euro | 60,837         |
| 2                             | CDS Dynamic Tribology, perioada:2015-2018, finantator:Schaeffler Group NrContract:4029/2008 AA4/2015 NrAniDerulare:3 | <b>Director</b>           | 57.789<br>Euro  | 23,2860        |
| <b>Total Director RIA-CTR</b> |  |                           |                 | <b>84,123</b>  |