

## FIȘA DE ÎNDEPLINIRE A STANDARDELOR MINIMALE CNATDCU pentru obținerea certificatului de abilitare în Domeniul Matematică

Candidat: Dumitru-Ioan STAMATE

S = 6,563    S<sub>recent</sub> = 4,8065    C = 30

Dintre lucrările publicate, în tabelul de mai jos am selectat lucrările cu maximul factorilor SRI (scor relativ de influență) din ultimele 5 liste ISI Thomson (din anii 2015-2019), mai mare sau egal cu 0.5 și care se încadrează în domeniul comisiei de specialitate.

### Lucrări:

| Numarul publicației | Referința bibliografică  | Publicat în ultimii 7 ani (DA/NU) | S <sub>i</sub>        | n <sub>i</sub> | S <sub>i</sub> /n <sub>i</sub> |
|---------------------|--|-----------------------------------|-----------------------|----------------|--------------------------------|
| 1.                  | Juergen Herzog, Takayuki Hibi, Dumitru I. Stamate, <i>The trace of the canonical module</i> , <b>Israel Journal of Mathematics</b> , Volume 233, Issue 1 (2019), 133-165. <a href="https://doi.org/10.1007/s11856-019-1898-y">DOI 110.1007/s11856-019-1898-y</a>                                   | DA                                | 1,851                 | 3              | 0,617                          |
| 2.                  | Viviana Ene, Juergen Herzog and Dumitru I. Stamate, <i>Anticanonical modules for Segre products</i> , <b>Bull. Math. Soc. Sci. Math. Roumanie</b> , special issue honoring Prof. Dorin Popescu, Tome 60 (108) No. 4, 2017, <a href="https://doi.org/10.1007/s11856-019-1898-y">373-386</a> .       | DA                                | 0,576                 | 3              | 0,192                          |
| 3.                  | Juergen Herzog and Dumitru I. Stamate, <i>Quadratic numerical semigroups and the Koszul property</i> , <b>Kyoto Journal of Mathematics</b> , Volume 57, Number 3 (2017), 585-612. <a href="https://doi.org/10.1215/21562261-2017-0007">DOI 10.1215/21562261-2017-0007</a>                          | DA                                | 1,722                 | 2              | 0,861                          |
| 4.                  | Mircea Cimpoeaș and Dumitru I. Stamate, <i>On intersections of complete intersection ideals</i> , <b>Journal of Pure and Applied Algebra</b> vol 220, no. 11 (2016), 3702-3712. <a href="https://doi.org/10.1016/j.jpaa.2016.05.008">DOI 10.1016/j.jpaa.2016.05.008</a>                            | DA                                | 1,258                 | 2              | 0,629                          |
| 5.                  | Dumitru I. Stamate, <i>Asymptotic properties in the shifted family of a numerical semigroup with few generators</i> , <b>Semigroup Forum</b> , Volume 93, Issue 2 (2016) pp 225-246. <a href="https://doi.org/10.1007/s00233-015-9724-2">DOI 10.1007/s00233-015-9724-2</a>                         | DA                                | 0,752                 | 1              | 0,752                          |
| 6.                  | Dumitru I. Stamate, <i>On the Cohen-Macaulay property for quadratic tangent cones</i> , <b>Electronic Journal of Combinatorics</b> , Volume 23, Issue 3 (2016), <a href="https://doi.org/10.37236/5793">Paper #P3.20</a> . 22 pages. <a href="https://doi.org/10.37236/5793">DOI 10.37236/5793</a> | DA                                | 1,148                 | 1              | 1,148                          |
| 7.                  | Juergen Herzog and Dumitru I. Stamate, <i>On the defining equations of the tangent cone of a numerical semigroup ring</i> , <b>Journal of Algebra</b> , vol 418 (2014), 8-28. <a href="https://doi.org/10.1016/j.jalgebra.2014.07.008">DOI 10.1016/j.jalgebra.2014.07.008</a>                      | DA                                | 1,215                 | 2              | 0,6075                         |
| 8.                  | Victor Reiner and Dumitru I. Stamate, <i>Koszul incidence algebras, affine semigroups, and Stanley-Reisner ideals</i> , <b>Advances in Mathematics</b> 224 (2010), 2312-2345. <a href="https://doi.org/10.1016/j.aim.2010.02.005">DOI:10.1016/j.aim.2010.02.005</a>                                | NU                                | 3,513                 | 2              | 1,7565                         |
| <b>TOTAL:</b>       |  |                                   | S =                   |                | 6,563                          |
|                     |  |                                   | S <sub>recent</sub> = |                | 4,8065                         |

Citări în reviste cu maximul factorilor SRI (scor relativ de influență) din ultimele 5 liste ISI Thomson (din anii 2015-2019), mai mare sau egal cu 0.5 și care se încadrează în domeniul comisiei de specialitate.

| Numărul publicației care citează   | Referința bibliografică a publicației care citează  | Si    |
|--|---|-------|
| Juergen Herzog, Takayuki Hibi, Dumitru I. Stamate, <i>The trace of the canonical module</i> , <b>Israel Journal of Mathematics</b> , Volume 233, Issue 1 (2019), 133-165. <a href="https://doi.org/10.1007/s11856-019-1898-y">DOI 10.1007/s11856-019-1898-y</a> este citată în:  |   |       |
| 1.   | Martin Kreuzer, Tran N. K. Linh, Le Ngoc Long, <i>The Dedekind different of a Cayley-Bacharach scheme</i> , <b>Journal of Algebra and Its Applications</b> , Vol. 18, No. 02, 1950027 (2019) <a href="https://doi.org/10.1142/S0219498819500270">DOI 10.1142/S0219498819500270</a>  | 0,693 |
| 2.   | Tran Do Minh Chau, Shiro Goto, Shinya Kumashiro, Naoyuki Matsuoka, <i>Sally modules of canonical ideals in dimension one and 2-AGL rings</i> , <b>Journal of Algebra</b> , Volume 521, 1 March 2019, Pages 299-330, <a href="https://doi.org/10.1016/j.jalgebra.2018.11.023">DOI 10.1016/j.jalgebra.2018.11.023</a>                             | 1,215 |
| 3.   | Valentina Barucci, Francesco Strazzanti, <i>Dilatations of numerical semigroups</i> , <b>Semigroup Forum</b> , Volume 98, Issue 2, April 2019, pp 251–260, <a href="https://doi.org/10.1007/s00233-018-9922-9">DOI 10.1007/s00233-018-9922-9</a>  | 0,752 |
| 4.   | Shiro Goto, Ryotaro Isobe, Shinya Kumashiro, <i>The Gorenstein property and correspondences between trace ideals and birational finite extensions</i> , <b>Journal of Pure and Applied Algebra</b> , Volume 224, Issue 2, February 2020, Pages 747-767, <a href="https://doi.org/10.1016/j.jpaa.2019.06.008">DOI 10.1016/j.jpaa.2019.06.008</a> | 1,258 |
| 5.   | Jürgen Herzog, Fatemeh Mohammadi, Janet Page, <i>Measuring the non-Gorenstein locus of Hibi rings and normal affine semigroup rings</i> , <b>Journal of Algebra</b> , Volume 540, 15 December 2019, Pages 78-99 <a href="https://doi.org/10.1016/j.jalgebra.2019.08.028">DOI 10.1016/j.jalgebra.2019.08.028</a>                                 | 1,215 |
| Juergen Herzog, Dumitru I. Stamate, <i>On the Cohen-Macaulay property for projective monomial curves</i> , <b>Acta Mathematica Vietnamica</b> , Vol. 44, Issue 1 (2019), 51-64. <a href="https://doi.org/10.1007/s40306-018-00302-5">DOI 10.1007/s40306-018-00302-5</a> este citată în:  |   |       |
| 6  | Tony Se, J. Grant Serio, <i>The Cohen-Macaulay property of affine semigroup rings in dimension 2</i> , <b>Communications in Algebra</b> 47 (2019), no.7, 2979-2994. <a href="https://doi.org/10.1080/00927872.2018.1546392">DOI 10.1080/00927872.2018.1546392</a>   | 0,613 |
| 7.   | Jürgen Herzog, Guangjun Zhu, <i>On the fiber cone of monomial ideals</i> , <b>Archiv der Mathematik</b> , volume 113, pages 469–481 (2019). <a href="https://doi.org/10.1007/s00013-019-01347-0">DOI 10.1007/s00013-019-01347-0</a>   | 0,843 |
| Dumitru I. Stamate, <i>Betti Numbers for Numerical Semigroup Rings</i> . In: <b>Multigraded Algebra and Applications. NSA 2016</b> , (Ene V., Miller E. Eds.) 133-157. Springer Proceedings in Mathematics & Statistics, Springer, Cham, 2018. <a href="https://doi.org/10.1007/978-3-319-90493-1_8">DOI 10.1007/978-3-319-90493-1_8</a> este citată în: |   |       |
| 8.   | Ranjana Mehta, Joydip Saha, Indranath Sengupta, <i>Betti numbers of Bresinsky's curves in A4</i> , <b>Journal of Algebra and Its Applications</b> , Vol. 18, No. 08, 1950143 (2019) <a href="https://doi.org/10.1142/S0219498819501433">DOI 10.1142/S0219498819501433</a>   | 0,693 |
| 9.   | Mesut Sahin, Nil Sahin, <i>Betti numbers for certain Cohen-Macaulay tangent cones</i> , <b>Bulletin of the Australian Mathematical Society</b> , Volume 99, Issue 1, pp. 68-77. <a href="https://doi.org/10.1017/S0004972718000898">DOI 10.1017/S0004972718000898</a>   | 0,691 |
| 10.  | Marco D'Anna, Raheleh Jafari, Francesco Strazzanti, <i>Tangent cones of monomial curves obtained by numerical duplication</i> , <b>Collectanea Mathematica</b> 70 (2019), no. 3, 461-477 <a href="https://doi.org/10.1007/s13348-019-00241-w">DOI 10.1007/s13348-019-00241-w</a>  | 1,532 |

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|---|---|-------|
| <p>Viviana Ene, Jürgen Herzog, Dumitru I. Stamate, <i>Anticanonical modules of Segre products</i>, <b>Bull. Math. Soc. Sci. Math. Roumanie</b>, special issue honoring Dorin Popescu, Tome 60 (108) No. 4, 2017, <a href="#">373-386</a>.<br/>este citată în:</p> |   |       |
| 11.   | <p>Jürgen Herzog, Fatemeh Mohammadi, Janet Page, <i>Measuring the non-Gorenstein locus of Hibi rings and normal affine semigroup rings</i>, <b>Journal of Algebra</b>, 540 (2019), 78-99<br/><a href="#">DOI 10.1016/j.jalgebra.2019.08.028</a></p>   | 1,215 |
| <p>Jürgen Herzog, Dumitru I. Stamate, <i>Quadratic numerical semigroups and the Koszul property</i>, <b>Kyoto Journal of Mathematics</b>, Volume 57, Number 3 (2017), 585-612 <a href="#">DOI 10.1215/21562261-2017-0007</a> este citată în:</p>                  |   |       |
| 12.   | <p>Alessio Sammartano, <i>On the multiplicity of tangent cones of monomial curves</i>, <b>Arkiv för Matematik</b> 57, 215-225 (2019).<br/><a href="#">DOI 10.4310/ARKIV.2019.v57.n1.a11</a></p>   | 1,518 |
| <p>Dumitru I. Stamate, <i>Asymptotic properties in the shifted family of a numerical semigroup with few generators</i>, <b>Semigroup Forum</b> (2016) 93:225–246, <a href="#">DOI 10.1007/s00233-015-9724-2</a> este citată în:</p>                               |   |       |
| 13.   | <p>Raheleh Jafari, Santiago Zarzuela Armengou, <i>Homogeneous numerical semigroups</i>, <b>Semigroup Forum</b>, Volume 97, Issue 2, pp. 278-306, 2018<br/><a href="#">DOI 10.1007/s00233-018-9941-6</a></p>   | 0,752 |
| 14.   | <p>Rebecca Conaway, Felix Gotti, Jesse Horton, Christopher O'Neill, Roberto Pelayo, Mesa Williams, Brian Wissman, <i>Minimal presentations of shifted numerical monoids</i>, <b>International Journal of Algebra and Computation</b> 28, 53--68 (2018).<br/><a href="#">DOI 10.1142/S0218196718500030</a></p> | 1,085 |
| <p>Dumitru I. Stamate, <i>On the Cohen-Macaulay property for quadratic tangent cones</i>, <b>Electronic Journal of Combinatorics</b>, Volume 23, Issue 3 (2016), Paper #P3.20. 22 pages. <a href="#">DOI 10.37236/5793</a>, este citată în:</p>                   |   |       |
| 15.   | <p>Alessio Sammartano, <i>On the multiplicity of tangent cones of monomial curves</i>, <b>Arkiv för Matematik</b> 57, 215-225 (2019)<br/><a href="#">DOI 10.4310/ARKIV.2019.v57.n1.a11</a></p>  | 1,518 |
| <p>Juergen Herzog, Dumitru I. Stamate, <i>On the defining equations of the tangent cone of a numerical semigroup ring</i>, <b>Journal of Algebra</b> vol 418 (2014), 8-28, <a href="#">DOI 10.1016/j.jalgebra.2014.07.008</a> este citată în:</p>                 |   |       |
| 16.   | <p>A Oneto, G Tamone, <i>Szygies of GS monomial curves and Weierstrass property</i>, <b>Semigroup Forum</b> Volume 92, Issue 1, pp 258-273, 2016,<br/><a href="#">DOI 10.1007/s00233-015-9753-x</a></p>   | 0,752 |
| 17.   | <p>Mesut Sahin, Nil Sahin, <i>On Pseudo Symmetric Monomial Curves</i>, <b>Communications in Algebra</b>, volume 46, Issue 6 (2018), 2561-2573<br/><a href="#">DOI 10.1080/00927872.2017.1392532</a></p>   | 0,613 |
| 18.   | <p>Raheleh Jafari, Santiago Zarzuela Armengou, <i>Homogeneous numerical semigroups</i>, <b>Semigroup Forum</b>, Volume 97, Issue 2, pp 278–306,<br/><a href="#">DOI 10.1007/s00233-018-9941-6</a></p>   | 0,752 |
| 19.   | <p>Alessio Sammartano, <i>On the multiplicity of tangent cones of monomial curves</i>, <b>Arkiv för Matematik</b> 57, 215-225 (2019).<br/><a href="#">DOI 10.4310/ARKIV.2019.v57.n1.a11</a></p>   | 1,518 |
| 20.   | <p>Ranjana Mehta, Joydip Saha, Indranath Sengupta, <i>Betti numbers of Bresinsky's curves in A4</i>, <b>Journal of Algebra and Its Applications</b>, Vol.18, No. 08, 1950143(2019). <a href="#">DOI 10.1142/S0219498819501433</a></p>   | 0,693 |

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|---|---|-------|
| 21.   | Mesut Sahin, Nil Sahin, <i>Betti numbers for certain Cohen-Macaulay tangent cones</i> , <b>Bulletin of the Australian Mathematical Society</b> , Volume 99, 2019, pp. 68-77. <a href="https://doi.org/10.1017/S0004972718000898">DOI 10.1017/S0004972718000898</a>          | 0,691 |
| 22.   | Mesut Sahin, <i>Liftings of a monomial curve</i> , <b>Bulletin of the Australian Mathematical Society</b> , 98 (2018), 230-238. <a href="https://doi.org/10.1017/S0004972718000400">DOI 10.1017/S0004972718000400</a>   | 0,691 |
| Victor Reiner and Dumitru I. Stamate, <i>Koszul incidence algebras, affine semigroups, and Stanley-Reisner ideals</i> , <b>Advances in Mathematics</b> 224 (2010), 2312-2345. <a href="https://doi.org/10.1016/j.aim.2010.02.005">DOI:10.1016/j.aim.2010.02.005</a> este citată în: |   |       |
| 23.   | Adrian Manea, Dragos Stefan, <i>On Koszulity of finite graded posets</i> , <b>J. Algebra Appl.</b> , Volume: 16 Issue: 7, 2017 Article Number: 1750139. <a href="https://doi.org/10.1142/S0219498817501390">DOI 10.1142/S0219498817501390</a>                               | 0,693 |
| 24.   | Adrian Manea, <i>On the Ext Ring of Koszul Rings</i> , <b>Bull. Math. Soc. Sci. Math. Roumanie</b> , Tome 59 (107) No. 1, 2016, <a href="#">51-63</a> .   | 0,576 |
| 25.   | Adrian Manea, Dragos Stefan, <i>Further Properties and Applications of Koszul Pairs</i> , <b>SIGMA- Symmetry Integrability and Geometry-Methods and Applications</b> 12 (2016), 092, 24 pp. <a href="https://doi.org/10.3842/SIGMA.2016.092">DOI 10.3842/SIGMA.2016.092</a> | 1,004 |
| 26.   | Pascual Jara Martinez, Javier Lopez Pena, Dragos Stefan, <i>Koszul pairs and applications</i> , <b>Journal of Noncommutative Geometry</b> Volume 11, Issue 4, 2017, pp. 1289–1350. <a href="https://doi.org/10.4171/JNCG/11-4-3">DOI 10.4171/JNCG/11-4-3</a>                | 1,811 |
| 27.   | Liping Li, <i>A generalized Koszul theory and its application</i> , <b>Trans. Amer. Math. Soc.</b> 366(2014), 931-977 <a href="https://doi.org/10.1090/S0002-9947-2013-05891-6">DOI 10.1090/S0002-9947-2013-05891-6</a>   | 2,756 |
| 28.   | David Quinn, <i>The Incidence Algebra of Posets and Acyclic Categories</i> , <b>Kyushu J. Math.</b> 67 (2013), 117-127. <a href="https://doi.org/10.2206/kyushujm67.117">DOI:10.2206/kyushujm67.117</a>   | 0,730 |
| 29.   | H. Sadofsky, B. Shelton, <i>The Koszul property as a topological invariant and measure of singularities</i> , <b>Pacific J Math</b> , 252 (2), 2011, 473-486, <a href="https://doi.org/10.2140/pjm.2011.252.473">DOI 10.2140/pjm.2011.252.473</a>                           | 1,335 |
| 30.   | Andrew Conner, Brad Shelton, <i><math>K_2</math> factors of Koszul algebras and applications to face rings</i> , <b>J. Algebra</b> 368 (2012), 251–270. <a href="https://doi.org/10.1016/j.jalgebra.2012.07.004">DOI 10.1016/j.jalgebra.2012.07.004</a>                     | 1,215 |

Valori ale SRI pentru perioada 2015-2019 la revistele luate în calcul mai sus

| Nume revistă                         | listă 2019 | listă 2018   | listă 2017   | listă 2016   | listă 2015   | s_i   |
|--------------------------------------|------------|--------------|--------------|--------------|--------------|-------|
| Israel Journal of Mathematics        | 1,726      | 1,602        | 1,739        | 1,761        | <b>1,851</b> | 1,851 |
| Bull. Math. Soc. Sci. Math. Roumanie | 0,381      | 0,387        | 0,436        | 0,488        | <b>0,576</b> | 0,576 |
| Kyoto Journal of Mathematics         | 0,981      | 1,098        | 1,575        | 1,434        | <b>1,722</b> | 1,722 |
| Journal of Pure and Applied Algebra  | 1,240      | <b>1,258</b> | 1,149        | 1,174        | 1,152        | 1,258 |
| Semigroup Forum                      | 0,680      | 0,748        | 0,583        | <b>0,752</b> | 0,529        | 0,752 |
| Electronic Journal of Combinatorics  | 1,100      | <b>1,148</b> | 1,075        | 1,137        | 1,044        | 1,148 |
| Journal of Algebra                   | 1,153      | 1,140        | <b>1,215</b> | 1,139        | 1,160        | 1,215 |

|   |              |              |              |              |              |       |
|---|--------------|--------------|--------------|--------------|--------------|-------|
| Advances in Mathematics                                       | 3,146        | 3,217        | <b>3,513</b> | 3,473        | 3,424        | 3,513 |
| Journal of Algebra and Its Applications                       | 0,581        | 0,667        | 0,662        | 0,651        | <b>0,693</b> | 0,693 |
| Communications in Algebra                                     | 0,576        | 0,578        | 0,639        | 0,591        | <b>0,613</b> | 0,613 |
| Archiv der Mathematik   | 0,807        | <b>0,843</b> | 0,721        | 0,811        | 0,749        | 0,843 |
| Bulletin of the Australian Mathematical Society               | <b>0,691</b> | 0,582        | 0,641        | 0,674        | 0,681        | 0,691 |
| Collectanea Mathematica                                       | 0,995        | 1,393        | 1,103        | 0,837        | <b>1,532</b> | 1,532 |
| Arkiv för Matematik   | 1,166        | 1,191        | 1,481        | <b>1,518</b> | 1,236        | 1,518 |
| International Journal of Algebra and Computation              | 1,024        | 1,022        | <b>1,085</b> | 0,962        | 0,990        | 1,085 |
| Symmetry Integrability and Geometry- Methods and Applications | 0,993        | 1            | 0,814        | 0,868        | <b>1,004</b> | 1,004 |
| Journal of Noncommutative Geometry                            | 1,331        | 1,456        | 1,655        | 1,406        | <b>1,811</b> | 1,811 |
| Trans. Amer. Math. Soc.                                       | 2,683        | 2,649        | <b>2,756</b> | 2,488        | 2,449        | 2,756 |
| Kyushu Journal of Mathematics                                 | 0,494        | <b>0,730</b> | 0,729        | 0,503        | 0,719        | 0,730 |
| Pacific Journal of Mathematics                                | 1,260        | <b>1,335</b> | 1,250        | 1,284        | 1,053        | 1,335 |

Actualizat:

5 iunie 2020