

Списъци на научните трудове, изобретенията, цитатите и т.н., включени в минималните национални изисквания по групи показатели В-Е съгласно Правилника за прилагане на ЗРАС РБ.

ГЛ. АС. Д-Р ВАСИЛИЙ АТАНАСОВ ЧИТАНОВ

Брой точки по таблица 3, показател Д11(Цитирания на научни статии в реферирани бази данни): 53 x 2 = 106 точки

I. Цитирания на публикации от група А

V. Chitanov, M. Petrov, C. Kiparissides, "Neural-Fuzzy Modeling of Polymer Quality in Batch Polymerization Reactors", *Second International Conference on Intelligent Systems, IEEE*, Vol. 3, pp. 67-72, June 2004, St. Konstantin and Elena, Bulgaria.

- 1. J. Mohd Ali, N. Hoang, M. Hussain, D. Dochain, "Hybrid observer for parameters estimation in ethylene polymerization reactor: A simulation study", *Applied Soft Computing Journal*, Vol. 49, December 2016, Publisher: Elsevier, ISSN:1568-4946, pp. 687-698, <https://doi.org/10.1016/j.asoc.2016.08.047>, SJR 1.405, IF:6.725, Q1, SCOPUS, WoS, 2016.
- 2. J. Mohd Ali, N. Hoang, M. Hussain, D. Dochain, "Review and classification of recent observers applied in chemical process systems", *Computers and Chemical Engineering*, Vol. 76, 8 May 2015, Publisher: Elsevier, ISSN:0098-1354, pp. 27-41, <https://doi.org/10.1016/j.compchemeng.2015.01.019>, SJR 0.997, SCOPUS, 2015.
- 3. J. Mohd Ali, M. Hussain, M. Tade, J. Zhang, "Artificial Intelligence techniques applied as estimator in chemical process systems - A literature survey", *Expert Systems with Applications*, Vol. 42, Issue 14, 15 august 2015, <https://doi.org/10.1016/j.eswa.2015.03.023>, Publisher: Elsevier, ISSN:0957-4174, pp. 5915-5931, SJR 1.494, IF:6.954, Q1, SCOPUS, WoS, 2015.
- 4. Y. Todorov, M. Terziyska, L. Doukovska, "Distributed fuzzy-neural state-space predictive control", *Proceedings of the 2015 20th International Conference on Process Control, PC 2015*, Vol. 2015-July, 28 July 2015, Article number 7169934, 20th International Conference on Process Control, PC 2015, Hotel Sorea Trigan Banik Strbske Pleso, Slovakia; 9 -12 June 2015, Publisher: IEEE, ISBN:978-1-4673-6627-4, pp. 31-36, DOI: 10.1109/PC.2015.7169934, SCOPUS, 2015.
- 5. Y. Todorov, M. Terziyska, "State-space fuzzy-neural network for modeling of nonlinear dynamics", *Publisher IEEE*, ISBN:978-1-4799-3020-3, INISTA 2014 - IEEE International Symposium on Innovations in Intelligent Systems and Applications, Proceedings Alberobello; Italy; 23-25 June 2014, Article number 6873620, pp. 212-217, DOI: [10.1109/INISTA.2014.6873620](https://doi.org/10.1109/INISTA.2014.6873620), SJR: 0.165 (2014), SCOPUS, 2014.
- 6. A. Suresh, M. Sureshkumar, K. Kargupta, S. Ganguly, K. Naskar, G. Nando, "Predicting physico-mechanical properties of LLDPE and PDMS rubber blends using ANFIS-based model", *Plastics rubber and composites*, Vol. 38, Issue: 5, Publisher: TAYLOR & FRANCIS LTD, Published: JUN 2009, ISSN: 1465-8011, pp. 173-182, DOI: [10.1179/174328909X387982](https://doi.org/10.1179/174328909X387982), <https://www.tandfonline.com/doi/abs/10.1179/174328909X387982>, IF:2.021, Q3, WoS, 2009.

II. Статии показател В, група 4 Хабилизационен труд – научни публикации в издания, които са реферирани и индексирани в световноизвестни бази данни с научна информация (Web of Science и Scopus) и цитирания на публикациите в реферирани бази данни.

B_1.

V. Chitanov, St. Kolchev, T. Cholakova, L. Kolaklieva, R. Kakanakov, Ch. Pashinski, N. Hristeva, “Low temperature quaternary hard coatings with Cr- to Ti-based transition composition”, *Journal of Physics: Conference Series*, Open Access, Volume 2240, Issue 1, 4 April 2022, Article number 0120142, 2nd International Summer School on Vacuum, Electron and Ion Technologies, VEIT 2021, Sozopol, Publisher: Institute of Physics Publishing, ISSN:1742-6588, pp. 1-6, 2022, DOI10.1088/1742-6596/2240/1/012014, <https://iopscience.iop.org/article/10.1088/1742-6596/2240/1/012014>.

Индексира се в Scopus SJR 0.21, точки 10.

B_2.

V. Chitanov, M. Krieger, P. Heinzlreiter, L. Kolaklieva, R. Kakanakov, A pilot applied physics grid computing infrastructure for developing applications predicting the qualities of industrial coatings, *Journal of Grid Computing*, Vol. 19, Issue 3, Published: 01 July 2021, Article number 26, Springer Science and Business Media B.V., Springer Nature, ISSN 1570-7873, DOI 10.1007/s10723-021-09566-y, Access Num. WOS:000668890600001, 2021, <https://link.springer.com/article/10.1007%2Fs10723-021-09566-y>

Индексира се в Scopus, WoS SJR 0.611, IF: 3.986, Q1, точки 25

B_3.

V. Chitanov, L. Kolaklieva, T. Cholakova, R. Sharif, G. Hesser, A. Hinterreiter, R. Kakanakov, K. Hingerl, “Ellipsometric characterisation of CrTiAlN coating deposited at low temperatures with Unbalanced magnetron sputtering”, *Journal of Physics: Conference Series*, IOP Publishing, Institute of Physics Publishing, Volume 1492, Issue 1, 2 June 2020, Article number 012035, ISSN:1742-6588, <https://iopscience.iop.org/article/10.1088/1742-6596/1492/1/012035>, , 21st International Summer School on Vacuum, Electron and Ion Technologies, VEIT 2019; Black Sea Resort Sozopol; Bulgaria; 23 September 2019, 2020.

Индексира се в SCOPUS, WoS, SJR 0.227, точки 10.

B_4.

V. Chitanov, L. Kolaklieva, T. Cholakova, R. Kakanakov, “Investigation of triple Cr-Ti-based nitride coatings depending on the graded transition layers”, *Bulgarian Chemical Communications*, vol. 50, Publisher: Bulgarian Chemical Society, Bulgarian Academy of Sciences, Union of Chemists in Bulgaria, ISSN:0324-1130, pp. 205-211, **2018**.

http://www.bcc.bas.bg/bcc_volumes/Volume_50_Special_G_2018/50G_PD_205-211.78.pdf

Индексира се в Scopus, ISI IF:0.242, Q4, SJR 0.142, **точки 12**

- 1. A. Do, D. Kim, H. Choi, S. Kim, S. Lim, H. Lee, W. Kim, “Improvement in the hydrothermal corrosion resistance of Ti-based nitride coatings by adding Cr for accident tolerant fuel cladding applications”, *Journal of Nuclear Materials*, Vol. 549, Article num 152903, June 2021, Elsevier, ISSN:00223115, DOI10.1016/j.jnucmat.2021.152903, **SJR:1.123, IF:2.94, Scopus, 2021**.

B_5.

T. Cholakova, L. Kolaklieva, R. Kakanakov, V. Chitanov, B. Rangelov, S. Atanasova, P. Stefanov, G. Atanasova, K. Balashev, “Effect of the heat treatment on mechanical and structural properties of CrTiAlN coatings deposited at low temperature”, *Bulgarian Chemical Communications*, Volume 50, Bulgarian Academy of Sciences, Union of Chemists in Bulgaria Publisher: Bulgarian Chemical Society, ISSN:0324-1130, pp. 197-204, **2018**. http://www.bcc.bas.bg/BCC_Volumes/Volume_50_Special_G_2018/50G_PD_197-204.105.pdf

Индексира се в SCOPUS, IF:0.242, Q4 SJR: 0.142, **точки 12**

B_6.

T. Cholakova, V. Chitanov, L. Kolaklieva, R. Kakanakov, B. Rangelov, S. Atanasova-Vladimirova, P. Stefanov, G. Atanasova, K. Balashev, “Ti- and Cr-based hard coatings obtained at low temperatures by unbalanced magnetron sputtering”, *Journal of Physics: Conf. Series*, vol. 992, issue 1, Article number 012030, IOP Publishing, DOI:doi:10.1088/1742-6596/992/1/012030, 1-8., 20th International Summer School on Vacuum, Electron and Ion Technologies, VEIT 2017; Black Sea Resort Sozopol; Bulgaria; 25 September 2017 through 29 September 2017, **2018**

<https://iopscience.iop.org/article/10.1088/1742-6596/992/1/012030>

Индексира се в Scopus, WoS, SJR:0.241, **точки 10**

- 1. Y. Liu, H. Liu, V. Pelenovich, Q. Wan, J. Guo, Y. Chen, J. Zhang, L. Xue, Z. Li, B. Yang, “Influences of modulation period on structure and properties of AlTiSiN/AlCrSiN nanocomposite multilayer coatings”, *Vacuum*, Vol. 193, Article number 110516, November 2021, Elsevier, ISSN:0042207X, DOI10.1016/j.vacuum.2021.110516, **2021**, <https://doi.org/10.1016/j.vacuum.2021.110516>, **SJR 0.738, IF 3.627, Q2, Scopus, WoS**.

B_7.

St. Rabadzhiyska, L. Kolaklieva, V. Chitanov, T. Cholakova, R. Kakanakov, N. Dimcheva, K. Balashev, “**Mechanical, wear and corrosion behavior of CrN/TiN multilayer coatings deposited by low temperature unbalanced magnetron sputtering for biomedical applications**”. *Materials Today: Proceedings*, vol. 5, Issue 8, pp. 16012-16021 ELSEVIER, 2018, ISSN:2214-7853, 16012-16021., 14th International Conference on Nanosciences and Nanotechnologies, NN 2017, Thessaloniki; Greece; 4 July 2017 through 7 July 2017, 2018, <https://doi.org/10.1016/j.matpr.2018.05.046>.

Индексира се SCOPUS, WoS, SJR:0.314, **точки 10**

- 1. G. Celik, F. Aktas, F. Konstantinous, S. Atapek, E. Kamoutsi, A. Zercaki, “**Investigation of Adhesion and Tribological Performance of CrN-, AlTiN-, and CrN/AlTiN-Coated X45CrMoV5-3-1 Tool Steel**”, *Journal of materials engineering and performance*, ASM International, ISSN: 1544-1024, ISSN: 1059-9495, Published: 11 January 2023, <https://link.springer.com/article/10.1007/s11665-022-07652-0>, SCOPUS, WoS.
- 2. N. Pradeep, M. Hekge, M. Patel GC., K. Giasin, D. Pimenov, S. Wojciechowski, “**Synthesis and characterization of mechanically alloyed nanostructured ternary titanium based alloy for bio-medical applications**”, *Journal of Materials Research and Technology*, Elsevier, ISSN 22387854, Open Access Volume 16, January 2022, pp. 88 - 101, DOI 10.1016/j.jmrt.2021.11.101, **Q1/Q2, IF=5.0, SJR=0.83, Scopus, WoS, 2022.**
- 3. N. Baseri, M. Mohammadi, M. Ghatee, M. Abassi-Firouzjah, H. Elmkhah, “**The effect of duty cycle on the mechanical and electrochemical corrosion properties of multilayer CrN/CrAlN coatings produced by cathodic arc evaporation**”, *Surface Engineering*, vol. 37, issue 2, publisher: Taylor & Francis, ISSN:0267-0844, Jun 2020/ Feb 1, 2021, pp:253-262, <https://doi.org/10.1080/02670844.2020.1775331>, **SJR 0.495, IF 3.169, Q2, SCOPUS, WoS, 2021 .**
- 4. S. Kumar, S. Maity, L. Patnaik, “**Effect of tribological process parameters on the wear and frictional behaviour of Cr-(CrN/TiN) composite coating: An experimental and analytical study**”, *Ceramics International*, vol. 47, Issue 11, 1 June 2021, Elsevier, CODEN, CINND, ISSN:02728842, pp. 16018-16028, DOI: 10.1016/j.ceramint.2021.02.176, **SJR0.936, IF 4.527, Q1, SCOPUS, WoS, <https://doi.org/10.1016/j.ceramint.2021.02.176>, 2021.**
- 5. X. Huang, J. Tan, T. Zhang, J. Mo, Z. Gao, X. Zhong, Q. Wang, “**Deposition and Anti-Wear/Corrosion Properties of Nano-multilayer TiN/CrN Films on Titanium Alloy**”, *Callao Daobao/Materials Reports*, vol. 35, Issue 4, 25 February 2021, Cailiao Daobaoshe/Materials Review ISSN 1005923X, pp. 04139-04143, DOI10.11896/cldb.19070256, **SJR:0.161, SCOPUS, SONIX, 2021.**
- 6. G. Kaliaraj, T. Siva, A. Ramadoss, “**Surface functionlized bioceramics coated on metallic implants for biomedical and anticorrosion performance-a review**”, *Journal of Materials Chemistry B*, Vol. 9, issue 46, Royal soc chemistry Thomas Graham house, science park, Milton, Cambridge, England, ISSN:2050-750X, pp. 9433-9460, DOI10.1039/d1tb01301g, **IF:6.331, Q2, WoS, 2021.**
- 7. Y. Wang, J. Zhang, S. Zhou, Y. Wang, C. Wang, Y. Wang, Y. Sui, J. Lan, Q. Xue, “**Improvement in the tribocorrosion performance of CrCN coating by multilayered design for marine protective application**”, *Applied Surface Science*, Vol. 528, 30 October Article number 147061, ISSN:0169-4332, <https://doi.org/10.1016/j.apsusc.2020.147061>, 2020, Scopus, WoS, **SJR 1.23.**
- 8. J. Tang, C. Huang, C. Lin, F. Yang, C. Chan, “**Effects of Substrate Rotation Speed on Structure and Adhesion Properties of CrN/CrAlSiN multilayer Coatings Prepared Using High-Power Impulse Magnetron Sputtering**”, *Coatings*, Vol. 10, issue 742,

August 2020, Article number 742, E-ISSN:2079-6412, doi:10.3390/coatings10080742, 2020, JCR-IF (Web of Science):2.3, SJR 0.463, SCOPUS, WoS.

- 9. K. Tamekuni, "Electrical resistivity and mechanical properties of nitrogen-containing diamondlike carbon/tungsten and nitrogen-containing diamondlike carbon/tungsten carbide multilayer films prepared under low substrate temperature", *Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics*, Vol. 38, Issue 1, 1 January 2020, Article number 011801, Publisher: AVS Science and Technology Society, ISSN:2166-2746E, ISSN:2166-2754, doi: 10.1116/1.5129700, 2020, **IF 1.416, Q4, SCOPUS, WoS.**
- 10. W. Cui, F. Niu, Y. Tan, G. Qin, "Microstructure and tribocorrosion performance of nanocrystalline TiN graded coating on biomedical titanium alloy", *Transactions of Nonferrous Metals Society of China (English Edition)*, Vol. 29, Issue 5, Publisher: Nonferrous Metals Society of China/Zhongguo Youse Jinshu Xuehui, ISSN:1003-6326E-ISSN:2210-3384, pp. 1026-1035, [https://doi.org/10.1016/S1003-6326\(19\)65011-9](https://doi.org/10.1016/S1003-6326(19)65011-9), 2019, **SJR 0.793, IF 2.917, Q1, SCOPUS, WoS.**
- 11. L. Wang, C. Zhu, C. Liang, Y. Feng, B. Gong, X. Wang, W. Jin, Y. Wu, N. Liu, J. Yang, "Preparation and characterization of Al₂O₃/Y₂O₃ multilayer coatings as tritium permeation barrier", *Materials Research Express*, Vol. 6, Issue 10, 7 August 2019, Article number 106403, Publisher: Institute of Physics Publishing, E-ISSN:2053-1591, <https://iopscience.iop.org/article/10.1088/2053-1591/ab3498>, 2019, **SJR 0.365, IF 1.449, Q3, SCOPUS, WoS.**

B_8

St. Rabadzhiyska, L. Kolaklieva, T. Cholakova, R. Kakanakov, **V. Chitanov**, P. Stefanov, G. Atanasova, K. Balashev, B. Rangelov, S. Atanasova, "Multilayer CrN/TiN coatings deposited at low temperatures by unbalanced magnetron sputtering for implant applications", *Bulgarian Chemical Communications*, vol. 50, , Bulgarian Academy of Sciences, Union of Chemists in Bulgaria Publisher: Bulgarian Chemical Society, ISSN:0324-1130, ISI, pp. 172-180, 2018,

http://www.bcc.bas.bg/BCC_Volumes/Volume_50_Special_G_2018/50G_PD_172-180.80.pdf

Индексира се в SCOPUS, IF:0.242, Q4, SJR: 0.142, **точки 12**

B_9

L. Kolaklieva, S. Rabadzhiyska, R. Kakanakov, **V. Chitanov**, T. Cholakova, V. Rupetchov, G. Mishev, "Evaluation of the Mechanical and tribological properties of multilayer CrN/TiN films deposited at low temperatures", *Proceedings of the International Conference on Microelectronics, ICM*, Vol. 2017, 12 December 2017, 30th IEEE International Conference on Microelectronics, MIEL, Proceedings Nis, Code 133854, pp. 187 – 190, 2017, DOI: 10.1109/MIEL42362.2017,

<https://ieeexplore.ieee.org/document/8190099/metrics#metrics>

Индексира се в SCOPUS WoS SJR 0.11 **точки 10**

B_10.

T. Cholakova, **V. Chitanov**, L. Kolaklieva, R. Kakanakov, D. Kovacheva, P. Stefanov, S. Rabadzhiyska, E. Korina, V. Kopanov, **“Protective multilayer (Ti, Al) N coatings deposited at low temperature by closed field unbalanced magnetron sputtering”**, *Bulgarian Chemical Communications*, vol. 48, Special Issue March 2016, 15th International Scientific Conference on Renewable Energy and Innovative Technologies, Publisher Bulgarian Academy of Sciences, central library 7 noemvri no 1, Sofia, 00000, Bulgaria, ISSN: 0324-1130, pp. 384 – 390, **2016**

http://www.bcc.bas.bg/bcc_volumes/Volume_48_Special_E_2016/Special%20Issue%20E/Statistics/Pages384-390.pdf

Индексира се в WoS, IF 0.242, Q4, SJR 0.14, **точки 12**

III. Статии показател Г, група 7, Научна публикация в издания, които са реферирани и индексирани в световноизвестни бази данни с научна информация (Web of Science и Scopus), извън хабилитационния труд и съответните цитирания видими в реферирани бази данни.

Г_1.

L. Kolaklieva, R. Kakanakov, D. Kovacheva, **V. Chitanov**, T. Cholakova, Ch. Bahchedjiev, St. Kolchev, **“Effect of the Post-Deposition Thermal Treatment on the Mechanical Properties of a Compositionally Modulated CrAlSiN-AlSiN Coating”**, *Coatings*, Vol. 11, Issue: 11, Article number 1311, Nov. 2021, **2021**, <https://doi.org/10.3390/coatings11111311>, <https://www.mdpi.com/2079-6412/11/11/1311>.

Индексира се в Scopus, WoS, SJR 0.463, IF 2.881, Q2/Q3, 20 точки

Г_2.

L. Kolaklieva, R. Kakakanakov, P. Stefanov, D. Kovacheva, G. Atanasova, S. Russev, **V. Chitanov**, T. Cholakova, H. Bahchedjiev, **“Mechanical and Structural Properties of Nanocomposite CrAlSiN-AlSiN Coating with Periodically Modulated Composition”**, *Coatings*, vol. 10, issue 41, MDPI AG, 2020, ISSN: 2079-6412, 1-13, **2020**, DOI:doi:10.3390/coatings10010041.

Индексира се в SCOPUS, WoS, JCR-IF (Web of Science):2.3, SJR 0.463, Q2, 20 точки

- **1. A. Pogrebnjak, V. Buranich, V. Ivashchenko, L. Baimoldanova, K. Rokosz, S. Raaen, P. Zukowski, M. Opielak, B. Rakhadilov, V. Beresnev, N. Erdybaeva, “The Effect of Substrate Treatment on the Properties of TiAlSiYN/CrN Nanocomposite Coatings, Surfaces and Interfaces”**, *Surfaces and Interfaces*, Vol. 30 June 2022 Article number 101902, Publisher MDPI AG, ISSN:24680230, DOI10.1016/j.surfin.2022.101902, **2022**, <https://doi.org/10.1016/j.surfin.2022.101902>, **SCOPUS, WOS, SJR 0.742 Q2/Q1**.
- **2. R. Bauyrzhan, A. Pogrebnjak, Z. Sagdoldina, D. Buitkenov, V. Beresnev, A. Mukhamedova, “Effect of Bilayer Thickness and Bias Potential on the Structure and Properties of (TiZr/Nb)N Multilayer Coatings as a Result of Arc-PVD Deposition”**, *Materials*, Vol. 15, Issue 21, November 2022, article №7696, MDPI AG, Switzerland, ISSN 1996-1944, DOI 10.3390/ma15217696, **Q2, SJR 0.6, Scopus, 2022**.
- **3. M. Elisa, S-M Iordache, A-M. Iordache, S. Raluca, I. Vasiliu, D. Cristea, D. Ursutiu, C. Samoila, B. Sava, L. Boroica, M. Dinca, A. Filip, “Investigations Regarding the Addition of ZnO and Li₂ o-TiO₂ to Phosphate-Tellurite Glasses: Structural, Chemical, and mechanical Properties”**, *Materials*, Article 1644, MDPI AG, Switzerland, Vol. 15, issue 5, March-1 2022, ISSN 19961944, DOI 10.3390/ma15051644,

- Q2, SJR 0.6, Scopus, 2022.**
- 4. W. Tillmann, D. Kokalj, D. Stangier, Q. Fu, F. Kruis, L. Kesper, U. Berges, C. Westphal, **“On the synthesis and structural evolution of artificial CrN/TiN nanocomposites”**, *Applied Surface Science*, Vol. 535, 1 January 2021, Article number 147736, Publisher: Elsevier, ISSN:0169-4332, <https://doi.org/10.1016/j.apsusc.2020.147736>, 2021, **SJR 1.23, IF:6.707, Q1, Scopus, WoS.**
 - 5. S. Nallusamy, **“Investigations on silicon nitride superimposed nanocoated cutting tool by physical vapour deposition and atomic force microscopy”**, *Applied Nanoscience (Switzerland)*, Vol. 11, Issue 4, April 2021 Publisher: Springer Science and Business Media Deutschland GmbH, ISSN: 21905509, pp. 1107-1115, DOI: 10.1007/s13204-021-01668-z, <https://link.springer.com/article/10.1007/s13204-021-01668-z>, **SJR 0.57 Q2 IF 3.674, Scopus, WoS, 2021.**
 - 6. X. Hao, Q. Fan, Y. Li, R. Miao, J. Ma, H. Chen, X. Zhao, C. Wang, **“Structural, mechanical and corrosion behaviours of the homogeneous and gradient CrAlSiN coatings in 3.5% NaCl solution”**, *Journal of Materials Research and Technology*, Vol. 15, 1 November 2021, Elsevier, ISSN 22387854, pp. 2781-2791, DOI10.1016/j.jmrt.2021.09.098, 2021, **SJR 0.832, IF 5.039, Q2/Q1, Scopus, WOS.**
 - 7. J. Vetter, A. Eriksson, A. Reiter, V. Derflinger, W. Kalss, **“Quo Vadis: AlCr-Based coatings in industrial Applications”**, *Coatings*, Vol. 11, Issue 3, March 2021, Article number 344, MDPI AG, ISSN: 20796412, DOI10.3390/coatings11030344, **SJR: 0.484, IF 2.881, Q2/Q3, SCOPUS, WoS, 2021.**
 - 8. O. Maksakova, A. Pogrebnjak, V. Buranich, V. Ivashchenko, L. Baimoldanova, K. Rokosz, S. Raaen, N. Malovana, **“Theoretical and experimental investigation of multilayer (TiAlSiY) N/CrN coating before and after gold ions implantation”**, *High Temperature materials processes*, Vol. 25, issue 1, ISSN: 10933611, pp. 57-70, DOI10.1615/HIGHTEMPMATPROC.2021038087, **SJR0.197, IF 0.058, Q4, SCOPUS, WoS, 2021.**
 - 9. K. Lukaszewicz, J. Sondor, A. Paradecka, M. Pawlyta, B. Chmiela, M. Pancielejko, B. Szczucka-Lasota, T. Węgrzyn, T. Tański, **“Structure and Tribological Properties of AlCrN + CrCN Coating”**, *Coatings*, vol. 10, issue 11, E-ISSN:2079-6412, p. 1084, doi: 10.3390/coatings10111084, 2020, **JCR-IF (Web of Science):2.881, Q2/Q3, SJR 0.463, Scopus, WoS.**

Г_3.

L. Kolaklieva, V. Chitanov, A. Szekeres, K. Antonova, P. Terziyska, Z. Fogarassy, P. Petrik, I. Mihailescu, L. Duta, **“Pulsed Laser Deposition of Aluminum Nitride films: Correlation between mechanical, optical and structural properties”**, *Coatings*, vol. 9, Issue 3 art. 195, MDPI, ST ALBAN-ANLAGE 66, CH-4052 BASEL, SWITZERLAND, ISSN:2079-6412, 195, 2019, DOI:10.3390/coatings9030195.

Индексира се в SCOPUS, WoS, JCR-IF (Web of Science):2.684, Q2 SJR 0.463, 20 точки

- 1. M. Koçak, K. Pürlü, İ. Perkitel, İ. Altuntaş, İ. Demir, **“In-situ and ex-situ face-to-face annealing of epitaxial AlN”**, *Vacuum*, Vol. 203, September 2022, Article number 111284, Elsevier, ISSN 0042207X, DOI 10.1016/j.vacuum.2022.111284, <https://doi.org/10.1016/j.vacuum.2022.111284>, 2022,

Q2/Q1 SJR 0.738, SCOPUS.

- 2. D. Zolotukhin, E. Oks, A. Tyunkov, Yu. Yushkov, **“Electron-beam heating of ceramics to moderate temperature at fore-vacuum pressure”**, *Radiation Physics and chemistry*, Vol. 197, August 2022, article number 110169, Publisher: Elsevier, ISSN:0969-806X, DOI: 10.1016/j.radphyschem.2022.110169, <https://doi.org/10.1016/j.radphyschem.2022.110169>, 2022, **Q2, SJR 0.524, WoS.**
- 3. J. Caicedo, N. Bonilla, W. Aperador, **“Corrosion nature in [CoN/AlN]_n multilayers obtained from laser ablation”**, *Metals*, Vol. 11, Issue 2, Article num 2049, December 2021, Multidisciplinary Digital Publishing Institute (MDPI), ISSN: 20754701, DOI10.3390/met11122049, <https://www.mdpi.com/2075-4701/11/12/2049>, 2021, **SJR 0.57, IF:2.351, Q2/Q3, SCOPUS, WoS.**
- 4. M. Kiranjot, **“Effect of surface oxidation on soft x-ray optical properties of ion beam sputter deposited amorphous AlN thin film”**, *Journal of Applied Physics*, Vol. 130, Issue 19, Article num 195302, American Institute of Physics, 21 November 2021, ISSN 00218979, DOI10.1063/5.0059736 <https://aip.scitation.org/doi/10.1063/5.0059736>, 2021, **SJR 0.699, Scopus.**
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IV. Показател Г, група 10, Публикувана заявка за патент или полезен модел

Г_21. Подадена е заявка за полезен модел “ПЛАНЕТЕН КАРУСЕЛ ЗА ЗАДВИЖВАНЕ НА ОБРАЗЦИ В УСТРОЙСТВО ЗА ФИЗИЧНО ПАРНО ОТЛАГАНЕ”. Заявката е със заявителски номер BG/U/2023/5757 от 01.06.2023г. с автори Чавдар Пашински, Василий Читанов, Стефан Колчев, Лиляна Колаклиева, Румен Каканаков.

15 точки

V. Показатели Е (Препоръчителни).

14. Участие в национален научен или образователен проект.

По тази точка се включва участието в обучителния проект по Програма “Наука и Бизнес” към МОМН с договор № ДО2-718/02.08.2012г. – **10 точки.**

16. Ръководство на национален научен или образователен проект

По тази точка се включва проекта по Договор №ДНТС/Австрия 01/5 от 25-06-2013г. на който гл. ас. д-р Василий Читанов е ръководител – **20 точки.**

18. Привлечени средства по проекти, ръководени от кандидата (5000 лв =1 т.)
Средствата привлечени по т.14 и по т.16 са на стойност 21 000 лв - **4 точки.**