# I: Всички публикации - публикувани

* **Звено: ( ИББИ ) Институт по биофизика и биомедицинско инженерство**
* **Тип на публикацията**:
Научна монография
Глава от научна монография
Студия в научно списание
Статия в научно списание
Статия в сборник на научен форум
Студия в тематичен сборник
Статия в тематичен сборник
Научно съобщение
* **Година на публикуване**: 2020 ÷ 2020
* **Тип записи**: Записи, които влизат в отчета на звеното

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| **№** | **Публикация** | **Коригиращ Коефициент** | **Процент автори от звеното** |
| 1 | **Andreev, N.**, **Pencheva, T.**, **Ribagin, S.**, **Atanassov, K.**. Generalized net model of blood donation processes. Advances in Intelligent Systems and Computing, 1081, 2020, 147-154. SJR (Scopus):0.184   **Q3 (Scopus)**   [Линк](https://link.springer.com/chapter/10.1007/978-3-030-47024-1_16) | 1.000 | 100.00 |
| 2 | **Andreeva T.D.**, Dér A., Kelemen L., Krastev R., **Taneva S.G.**. Modulation of the internal structure and surface properties of natural and synthetic polymer matrices by graphene oxide doping. Polymers Advanced Technology, 31, 7, Wiley, 2020, ISSN:1099-1581, DOI:10.1002/pat.4885, 1562-1570. JCR-IF (Web of Science):2.578   **Q2 (Web of Science)**   [Линк](https://onlinelibrary.wiley.com/doi/10.1002/pat.4885) | 1.000 | 40.00 |
| 3 | **Angelova, M.**, **P. Vassilev**, **T. Pencheva**. Genetic Algorithm and Cuckoo Search Hybrid Technique for Parameter Identification of Fermentation Process Model. Int J Bioautomation, 24, 3, 2020, SJR (Scopus):0.242   **Q3 (Scopus)**   [Линк](http://www.biomed.bas.bg/bioautomation/2020/vol_24.3/files/24.3_07.pdf) | 1.000 | 100.00 |
| 4 | **Ariana Langari**, **Avgustina Danailova**, **Sashka Krumova**, Regina Komsa-Penkova, Georgi Golemanov, **Ina Giosheva**, Emil Gartchev, **Stefka G. Taneva**, **Svetla Todinova**. Aging-related changes in the calorimetric profile of red blood cells from women with miscarriages. Journal of Thermal Analysis and Calorimetry volume, 142, 2020, 1919-1926. SJR (Scopus):0.415, JCR-IF (Web of Science):2.731   **Q2 (Web of Science)**   [Линк](https://link.springer.com/article/10.1007/s10973-020-10112-3) | 1.000 | 66.67 |
| 5 | **Atanassov, K. T.**, Sándor, J.. Extension factor: Definition, properties and problems. Part 2. Notes on Number Theory and Discrete Mathematics, 26, 1, 2020, DOI:10.7546/nntdm.2020.26.1.31-39, 31-39   **Без JCR или SJR – индексиран в WoS или Scopus (Web of Science)** | 1.000 | 0.00 |
| 6 | **Atanassov, K. T.**, Shannon, A. G.. On intercalated Fibonacci sequences. Notes on Number Theory and Discrete Mathematics, 26, 3, 2020, DOI:10.7546/nntdm.2020.26.3.218-223, 218-223   **Без JCR или SJR – индексиран в WoS или Scopus (Web of Science)** | 1.000 | 50.00 |
| 7 | **Atanassov, K. T.**. A generalized net model of an intuitionistic fuzzy expert system. Notes on Intuitionistic Fuzzy Sets, 26, 1, 2020, DOI:10.7546/nifs.2020.26.1.46-68, 46-68   **Национално академично издателство** | 1.000 | 0.00 |
| 8 | **Atanassov, K. T.**. Generalized Nets, Intuitionistic Fuzziness and Data Mining. "Prof. M. Drinov" Academic Publishing House, Sofia, 2020   **Друго** | 1.000 | 0.00 |
| 9 | **Atanassov, K. T.**. Objects generated by an arbitrary natural number. Notes on Number Theory and Discrete Mathematics, 26, 4, 2020, DOI:10.7546/nntdm.2020.26.4.57-62, 57-62   **Без JCR или SJR – индексиран в WoS или Scopus (Web of Science)** | 1.000 | 0.00 |
| 10 | **Atanassov, K.**, **Pencheva, T.**. Cartesian products over intuitionistic fuzzy index matrices. Proceedings of the Jangjeon Mathematical Society, 23, 1, 2020, DOI:10.17777/pjms2020.23.1.65, 65-69. SJR (Scopus):0.214   **Q4 (Scopus)**   [Линк](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079819478&doi=10.17777%2fpjms2020.23.1.65&partnerID=40&md5=5b9bd48aa790527228ffa2fa1253e108) | 1.000 | 0.00 |
| 11 | **Atanassov, K.**, **Vassilev, P.**. A new intuitionistic fuzzy definiteness norm. Notes on Intuitionistic Fuzzy Sets, 26, 3, 2020, DOI:10.7546/nifs.2020.26.3.52-60, 52-60   **Национално академично издателство** | 1.000 | 0.00 |
| 12 | **Atanassov, K.**, **Vassilev, P.**. Intuitionistic fuzzy sets and other fuzzy sets extensions representable by them. Journal of Intelligent & Fuzzy Systems, 38, 1, 2020, DOI:10.3233/JIFS-179426, 525-530. JCR-IF (Web of Science):1.851   **Q3 (Web of Science)**   [Линк](https://content.iospress.com/articles/journal-of-intelligent-and-fuzzy-systems/ifs179426) | 1.000 | 100.00 |
| 13 | **Atanassov, K.**, Andonov, V.. Generalized nets and intuitionistic fuzzy pairs as tools for modelling of flexible manufacturing systems. Notes on Intuitionistic Fuzzy Sets, 26, 2, 2020, DOI:10.7546/nifs.2020.26.2.40-69, 40-69   **Национално академично издателство** | 1.000 | 0.00 |
| 14 | **Atanassov, K.**, Gluhchev, G., Andonov, V.. A generalized net model of biometric access control system. Advanced Studies in Contemporary Mathematics (Kyungshang), 30, 2, 2020, 223-230. SJR (Scopus):0.286   **Q3 (Scopus)**   [Линк](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096087933&doi=10.17777%2fascm2020.30.2.223&partnerID=40&md5=a77b38f6940b1cfa1ab1c432a4203af2) | 1.000 | 0.00 |
| 15 | **Atanassov, K.**, Sotirov, S.. Multilayer perceptron representation by index matrices with elements in a fixed interval. 24th IEEE European Conference on Circuit Theory and Design, 2020, 9218374   **Друго** | 1.000 | 50.00 |
| 16 | **Atanassov, K.**. A generalized net model of decision making process. Advanced Studies in Contemporary Mathematics (Kyungshang), 30, 2, 2020, DOI:10.17777/ascm2020.30.2.273, 273-283. SJR (Scopus):0.286   **Q3 (Scopus)**   [Линк](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096144433&doi=10.17777%2fascm2020.30.2.273&partnerID=40&md5=ce97c9f7fafe456eb21172bef26fa86d) | 1.000 | 0.00 |
| 17 | **Atanassov, K.**. A new modal type operator over intuitionistic fuzzy sets. Comptes Rendus de l’Academie Bulgare des Sciences, 73, 8, Prof. Marin Drinov Academic Publishing House, Sofia, Bulgaria, 2020, 1043-1050. JCR-IF (Web of Science):0.343   **Q4 (Web of Science)**   [Линк](http://www.proceedings.bas.bg/) | 1.000 | 100.00 |
| 18 | **Atanassov, K.**. Circular intuitionistic fuzzy sets. Journal of Intelligent and Fuzzy Systems, 39, 5, IOS Press, 2020, DOI:10.3233/JIFS-189072, 5981-5986. SJR (Scopus):0.357, JCR-IF (Web of Science):1.851   **Q3 (Web of Science)**   [Линк](https://content.iospress.com/articles/journal-of-intelligent-and-fuzzy-systems/ifs189072) | 1.000 | 100.00 |
| 19 | **Atanassov, K.**. Generalized Nets and Intuitionistic Fuzziness as Tools for Modelling of Data Mining Processes and Tools. Notes on Intuitionistic Fuzzy Sets, 26, 4, 2020, 9-52   **Национално академично издателство** | 1.000 | 100.00 |
| 20 | **Atanassov, K.**. Interval Valued Intuitionistic Fuzzy Sets Past, Present and Future. Studies in Computational Intelligence, 835, Springer, 2020, ISSN:1860949X, DOI:10.1007/978-3-030-31041-7\_5, 87-110. SJR (Scopus):0.215   **Q4 (Scopus)**   [Линк](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85080965115&doi=10.1007%2f978-3-030-31041-7_5&partnerID=40&md5=7e308118e6303fa8c0162e47795d72df) | 1.000 | 100.00 |
| 21 | **Atanassov, K.**. Interval-Valued Intuitionistic Fuzzy Sets. Studies in Fuzziness, 388, Springer, 2020, ISBN:978-3-030-32089-8, DOI:10.1007/978-3-030-32090-4   **Друго (Scopus)**   [Линк](https://link.springer.com/book/10.1007/978-3-030-32090-4) | 1.000 | 100.00 |
| 22 | **Atanassov, K.**. Level operators over index matrices. Part 1: Index matrices with real non-negative elements. Proceedings of the Jangjeon Mathematical Society, 23, 4, 2020, DOI:10.17777/pjms2020.23.4.459, 459-464. SJR (Scopus):0.214   **Q4 (Scopus)**   [Линк](https://www.scimagojr.com/journalsearch.php?q=12000154535&tip=sid&clean=0) | 1.000 | 100.00 |
| 23 | **Atanassov, K.**. Ordered sets and operations "negation" over their elements. Advanced Studies in Contemporary Mathematics (Kyungshang), 1, 30, 2020, 89-98. SJR (Scopus):0.286   **Q3 (Scopus)**   [Линк](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096096355&doi=10.17777%2fascm2020.30.1.89&partnerID=40&md5=a80fb687fea4aeddffe9af88b8f9fdd9) | 1.000 | 0.00 |
| 24 | **Biliana Nikolova**, **Severina Semkova**, **Iana Tsoneva**, Elena Stoyanova, Pavel Lefterov, Dessislava Lazarova, **Zhivko Zhelev**, Ichio Aoki, Tatsuya Higashi, Rumiana Bakalova. Redox-related Molecular Mechanism of Sensitizing Colon Cancer Cells to Camptothecin Analog SN38. Anticancer Res., 40, 9, International Institute of Anticancer Research, 2020, ISSN:02507005, DOI:DOI: 10.21873/anticanres.14519, 5159-5170. JCR-IF (Web of Science):1.994   **Q2 (Scopus)**   [Линк](https://pubmed.ncbi.nlm.nih.gov/32878804/) | 1.000 | 40.00 |
| 25 | **Christov I**, Gotchev A, Bortolan G, **Neycheva T**, **Raikova R**, Schmid R. Separation of the electromyographic from the electrocardiographic signals and vice versa. A topical review of the Dynamic procedure. International Journal Bioautomation, 24, 3, Institute of Biophysics and Biomedical Engineering at the Bulgarian Academy of Sciences, 2020, ISSN:1314-2321, DOI:10.7546/ijba.2020.24.3.000744, 289-317. SJR (Scopus):0.242   **Q3 (Scopus)**   [Линк](http://biomed.bas.bg/bioautomation/2020/vol_24.3/files/24.3_08.pdf) | 1.000 | 50.00 |
| 26 | **Diukendjieva, A.**, Zaharieva, M. M., Mori, M., **Alov, P.**, **Tsakovska, I.**, **Pencheva, T.**, Najdenski, H., Křen, V., Felici, C., Bufalieri, F., Di Marcotullio, L., Botta, B., Botta, M., Pajeva, I.. Dual SMO/BRAF Inhibition by Flavonolignans from Silybum marianum. Antioxidants, 9, MDPI, 2020, ISSN:2076-3921, DOI:doi:10.3390/antiox9050384, 1-13. SJR (Scopus):1.11, JCR-IF (Web of Science):5.014   **Q1, не оглавява ранглистата (Web of Science)**   [Линк](https://www.mdpi.com/2076-3921/9/5/384) | 1.000 | 28.57 |
| 27 | **Dobrev D**, **Neycheva T**. Correlated Multiple Sampling Techniques for Sensor Signal Conditioning. Proc. 2020 XXIX International Scientific Conference Electronics (ET), IEEE, 2020, ISBN:978-1-7281-7426-6, DOI:10.1109/ET50336.2020.9238159, 1-4   **Без JCR или SJR – индексиран в WoS или Scopus (Scopus)**   [Линк](https://ieeexplore.ieee.org/document/9238159) | 1.000 | 100.00 |
| 28 | **Dobrev D**, **Neycheva T**. Software Automatic Gain Control for Common Mode Interference Stabilization. Proc. 2020 XXIX International Scientific Conference Electronics (ET), IEEE, 2020, ISBN:978-1-7281-7426-6, DOI:10.1109/ET50336.2020.9238268, 1-3   **Без JCR или SJR – индексиран в WoS или Scopus (Scopus)**   [Линк](https://ieeexplore.ieee.org/document/9238268) | 1.000 | 100.00 |
| 29 | **Dotsinsky, I**, **Stoyanov, T**, Mihov, G. Power-line Interference Removal from High Sampled ECG Signals Using Modified Version of the Subtraction Procedure. International Journal Bioautomation, 24, 4, Institute of Biophysics and Biomedical Engineering, Bulgarian Academy of Sciences, 2020, ISSN:1314-2321 (on-line), DOI:doi: 10.7546/ijba.2020.24.4.000802, 381-392. SJR (Scopus):0.242   **Q3 (Scopus)**   [Линк](http://biomed.bas.bg/bioautomation/2020/vol_24.4/files/24.4_06.pdf) | 1.000 | 0.00 |
| 30 | **Jekova, I**, Bortolan, G, **Stoyanov, T**, **Dotsinsky, I**. Multi-type Arrhythmia Classification: Assessment of the Potential of Time and Frequency Domain Features and Different Classifiers. International Journal Bioautomation, 24, 2, Institute of Biophysics and Biomedical Engineering, Bulgarian Academy of Sciences, 2020, ISSN:1314-2321, DOI:10.7546/ijba.2020.24.2.000743, 153-172. SJR (Scopus):0.242   **Q3 (Scopus)**   [Линк](http://biomed.bas.bg/bioautomation/2020/vol_24.2/files/24.2_05.pdf) | 1.000 | 75.00 |
| 31 | **Jekova, I**, Iliev, I, Tabakov, S. Application of Stockwell Transform and Shannon Energy for Pace Pulses Detection in a Single-Lead ECG Corrupted by EMG Artifacts. Applied Sciences, 10, 21, MDPI, 2020, DOI:10.3390/app10217505, 7505. SJR (Scopus):0.418, JCR-IF (Web of Science):2.474   **Q1, не оглавява ранглистата (Scopus)**   [Линк](https://www.mdpi.com/2076-3417/10/21/7505) | 1.000 | 33.33 |
| 32 | **Kostadinova A**, I Keranov, T Vladkova, M Michel, I. Ivanova, R Yankova. Characterisation and biological response of electrospun amphiphilic poly (dimethylsiloxane-b-acrylic acid) fibrous scaffolds. Oxidation Communications, 43, 2020, ISSN:0209-4541, SJR (Scopus):0.224   **Q3 (Scopus)**   [Линк](https://www.scopus.com/record/display.uri?eid=2-s2.0-85088478222&origin=resultslist&sort=plf-f&src=s&st1=Characterisation+and+biological+response+of+electrospun+amphiphilic+&st2=&sid=b7d864dbf9e23a93f3835950748ee057&sot=b&sdt=b&sl=83&s=TITLE-ABS-KEY%25) | 1.000 | 16.67 |
| 33 | **Krasteva V**, Ménétré S, Didon JP, **Jekova I**. Fully Convolutional Deep Neural Networks with Optimized Hyperparameters for Detection of Shockable and Non-Shockable Rhythms. Sensors, 20, 10, MDPI, 2020, ISSN:1424-3210, DOI:10.3390/s20102875, 2875-pp. 1-24. SJR (Scopus):0.563, JCR-IF (Web of Science):3.275   **Q1, не оглавява ранглистата (Web of Science)**   [Линк](https://www.mdpi.com/1424-8220/20/10/2875) | 1.000 | 50.00 |
| 34 | **Krumova, S.**, Balansky, R., **Danailova, A.**, Ganchev, G., Djongov, L., Gartcheva, L., **Taneva, S.G.**, **Todinova, S.**. Calorimetric assay to follow colorectal cancer development in experimental rat models. Thermochimica Acta, 691, 2020, 178723. SJR (Scopus):0.558, JCR-IF (Web of Science):2.762   **Q2 (Scopus)**   [Линк](https://www.sciencedirect.com/science/article/pii/S0040603120306389) | 1.000 | 50.00 |
| 35 | **M. Al Sharif**, **P. Alov**, **I. Tsakovska**, **T. Pencheva**, **I. Pajeva**. Estimation of structural similarity between plant-derived phenolic compounds and drug molecules by virtual screening of DrugBank. International Scientific Journal Machines. Technologies. Materials., 14, 2, Scientific Technical Union of Mechanical Engineering "Industry 4.0", 2020, ISSN:1314-507X, 83-86   **Международно академично издателство**   [Линк](https://stumejournals.com/journals/mtm/2020/2/83) | 1.000 | 0.00 |
| 36 | **Mancheva, K.**, **Vukova, T.**, Atanasov, G., **Kossev, A.**. Recruitment curves during different types of muscle activity in non-dominant hand: a transcranial magnetic stimulation study. International Journal Bioautomation, 24, 4, 2020, DOI:doi: 10.7546/ijba.2020.24.4.000755, 393-402. SJR (Scopus):0.242   **Q3 (Scopus)**   [Линк](http://biomed.bas.bg/bioautomation/2020/vol_24.4/files/24.4_07.pdf) | 1.000 | 75.00 |
| 37 | **Marinov, E.**, **Atanassov, K.**. Partially continuous pretopological and topological operators for intuitionistic fuzzy sets. Iranian Journal of Fuzzy Systems, 17, 2, 2020, ISSN:1735-0654, DOI:10.22111/ijfs.2019.4879, 1-15. JCR-IF (Web of Science):2.276   **Q1, не оглавява ранглистата (Web of Science)**   [Линк](https://ijfs.usb.ac.ir/article_5215.html) | 1.000 | 100.00 |
| 38 | **Mladenov I. M.**. The Rectifications of the Cassinian Ovals: Third Round. J. Geom. Symmetry Phys, 57, 2020, ISSN:1312-5192, DOI:10.7546/jgsp-57-2020-87-98, 87-98. SJR (Scopus):0.178   **Q4 (Scopus)**   [Линк](https://projecteuclid.org/download/pdf_1/euclid.jgsp/1609297281) | 1.000 | 100.00 |
| 39 | **Momchilova A.**, Tzonchev Z., **Hadzhilazova M.**, **Tzoneva R.**, **Alexandrov A.S.**, Nikolakov D., Ilieva V., Pankov R.. SPHINGOLIPID METABOLISM IS DYSREGULATED IN ERYTHROCYTES FROM MULTIPLE SCLEROSIS PATIENTS. Comptes rendus de l'Academie bulgare des Sciences., 73, 3, 2020, 426-432. JCR-IF (Web of Science):0.343   **Q4 (Web of Science)**   [Линк](http://www.proceedings.bas.bg/) | 1.000 | 50.00 |
| 40 | **N. Petrova**, M. Paunov, **S. Stoichev**, **S. Todinova**, **S.G. Taneva**, V. Goltsev, **S. Krumova**. Thylakoid membrane reorganization, induced by growth light intensity, affects the plants susceptibility to drought stress. PHOTOSYNTHETICA, 58 (SI), 2020, 184-193. JCR-IF (Web of Science):2.562   **Q2 (Scopus)**   [Линк](https://ps.ueb.cas.cz/artkey/phs-202002-0019_special-issue-in-honour-of-prof-reto-j-strasser-8211-thylakoid-membrane-reorganization-induced-by-growth.php) | 1.000 | 71.43 |
| 41 | **Nikolova, B.**, **Antov, G.,**, **Semkova, S.,**, **Tsoneva, I.,**, Christova, N.,, Nacheva, L.,, Kardaleva, P.,, Angelova, S.,, Stoineva, I.,, Ivanova, J.,, Vasileva, I.,, Kabaivanova, L... Bacterial Natural Disaccharide (Trehalose Tetraester): Molecular Modeling and in Vitro Study of Anticancer Activity on Breast Cancer Cells.. Polymers, 12, 2, MDPI, 2020, ISSN:2073-4360, DOI:10.3390/polym12020499, 499. JCR-IF (Web of Science):3.426   **Q1 - оглавява ранглистата (Web of Science)**   [Линк](https://www.mdpi.com/2073-4360/12/2/499) | 1.000 | 33.33 |
| 42 | **Petrov, M**. Modelling and Multi-criteria Decision Making for Selection of Growth Rate Models of Batch Whey Cultivation by Kluyveromyces marxianus var. lactis MC 5 Strain. Problems of Engineering Cybernetics and Robotics, 72, 2020, ISSN:Print 0204-9848, On-line 1314-409X, 56-68   **Национално академично издателство (Друга база (напишете името й в "Забележката"))** | 1.000 | 100.00 |
| 43 | **Ribagin, S.**, Grozeva, A.. A Possible use of simple telerehabilitation program as an alternate form of traditionalhome-based exercise program for patients with socially significant diseases: a preliminary study. KNOWLEDGE INTERNATIONAL JOURNAL, 42, 4, Institute of Knowledge Management, 2020, 809-813   **Международно академично издателство (Друга база (напишете името й в "Забележката"))**   [Линк](https://ikm.mk/ojs/index.php/KIJ/article/view/4622) | 1.000 | 50.00 |
| 44 | **Roeva, O.**, **Angelova, M.**, **Zoteva, D.**, **Pencheva, T.**. Water cycle algorithm for modelling of fermentation processes. Processes, 8, 920, 2020, DOI:10.3390/pr8080920, JCR-IF (Web of Science):2.753   **Q2 (Web of Science)**   [Линк](https://www.mdpi.com/2227-9717/8/8/920) | 1.000 | 100.00 |
| 45 | **Roeva, O.**, **Zoteva, D.**, **Atanassova, V.**, **Atanassov, K.**, Castillo, O.. Cuckoo search and firefly algorithms in terms of generalized net theory. Soft Computing, 24, 7, 2020, DOI:10.1007/s00500-019-04241-7, 4877-4898. JCR-IF (Web of Science):3.05   **Q2 (Web of Science)**   [Линк](https://link.springer.com/article/10.1007/s00500-019-04241-7) | 1.000 | 80.00 |
| 46 | **Roeva, O.**, **Zoteva, D.**, Castillo, O.. Joint set-up of parameters in genetic algorithms and the artificial bee colony algorithm: an approach for cultivation process modelling. Soft Computing, 2020, DOI:https://doi.org/10.1007/s00500-020-05272-1, 1-24. JCR-IF (Web of Science):3.05   **Q2 (Web of Science)**   [Линк](https://link.springer.com/article/10.1007/s00500-020-05272-1) | 1.000 | 0.00 |
| 47 | **Roeva, O.**, Fidanova, S.. Different InterCriteria Analysis of Variants of ACO algorithm for Wireless Sensor Network Positioning. Studies in Computational Intelligence, 838, Springer, 2020, 83-103. SJR (Scopus):0.215   **Q4 (Scopus)**   [Линк](https://link.springer.com/chapter/10.1007/978-3-030-22723-4_6) | 1.000 | 50.00 |
| 48 | **Rumiana Tzoneva**, Tihomira Stoyanova, Annett Petrich, Desislava Popova, **Veselina Uzunova**, **Albena Momchilova**, Salvatore Chiantia. Effect of Erufosine on Membrane Lipid Order in Breast Cancer Cell Models.. Biomolecules, 10, 5, 2020, ISSN:2218273X, DOI:https://doi.org/10.3390/biom10050802, SJR (Scopus):1.614, JCR-IF (Web of Science):4.082   **Q1 - оглавява ранглистата (Scopus)**   [Линк](https://www.mdpi.com/2218-273X/10/5/802) | 1.000 | 42.86 |
| 49 | **Semkova S**, **Zhelev Z**, Miller T, Sugaya K, Aoki I, Higashi T, Bakalova R. Menadione/Ascorbate Induces Overproduction of Mitochondrial Superoxide and Impairs Mitochondrial Function in Cancer: Comparative Study on Cancer and Normal Cells of the Same Origin.. Anticancer Res., 40, 4, International Institute of Anticancer Research, 2020, ISSN:02507005, DOI:DOI: 10.21873/anticanres.14151, 1963-1972. JCR-IF (Web of Science):1.994   **Q2 (Scopus)**   [Линк](https://www.ncbi.nlm.nih.gov/pubmed/32234885) | 1.000 | 28.57 |
| 50 | **Todorova R**. Contemporary control and risk management against disease-transmissive invasive mosquitos in EUROPE.. Climate changes – a global treat for the food chain. Book., EFSA Focal Point Bulgaria. Risk Assessment Center on Food Chain. http://focalpointbg.com/?news=1018, 2020, ISBN:978-619-7509-01-4, 93-114   **Друго (Друга база (напишете името й в "Забележката"))**   [Линк](http://doi.org/10.5281/zenodo.3647855) | 1.000 | 100.00 |
| 51 | **Todorova, L.**, Ignatova, V., Surchev, J.. Computerized neuropsychological test battery CogniSoft for assessment of cognition in patients with multiple sclerosis. INT. J. BIOAUTOMATION, 24, 4, 2020, ISSN:1314-2321, 371-380. SJR (Scopus):0.242   **Q3 (Scopus)**   [Линк](http://biomed.bas.bg/bioautomation/2020/vol_24.4/files/24.4_05.pdf) | 1.000 | 33.33 |
| 52 | **Vassilev, P.**, **Atanassov, K.**. Generalised Atanassov Intuitionistic Fuzzy Sets Are Actually Intuitionistic Fuzzy Sets. Studies in Computational Intelligence, 862, Springer Nature, 2020, ISBN:978-3-030-35445-9, ISSN:1860-949X, 107-114. SJR (Scopus):0.215   **Q4**   [Линк](https://link.springer.com/chapter/10.1007/978-3-030-35445-9_10) | 1.000 | 100.00 |
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| 97 | Nikola Mladenov, Svetla D. Petrova, Kirilka Mladenova, Desislava Bozhinova, Veselina Moskova-Doumanova, Tanya Topouzova-Hristova, Pavel Videv, **Ralitsa Veleva**, **Aneliya Kostadinova**, **Galya Staneva**, **Tonya D. Andreeva**, Jordan Doumanov. Miscibility of hBest1 and sphingomyelin in surface films – A prerequisite for interaction with membrane domains. Colloids and Surfaces B: Biointerfaces, 189, Elsevier, 2020, 110893. JCR-IF (Web of Science):4.389   **Q1, не оглавява ранглистата (Scopus)**   [Линк](https://doi.org/10.1016/j.colsurfb.2020.110893) | 1.000 | 33.33 |
| 98 | Ossowicz, P., Janus, E., Światek, E., Kardaleva, P., **Taneva, S.**, Krachmarova, E., Rangelov, M., Todorova, N., Guncheva, M.. Modulation of the binding affinity of naproxen to bovine serum albumin by conversion of the drug into amino acid ester salts. Journal of Molecular Liquids, 319, Elsevier, 2020, ISSN:0167-7322, DOI:10.1016/j.molliq.2020.114283, 114283. SJR (Scopus):0.883, JCR-IF (Web of Science):5.065   **Q1, не оглавява ранглистата (Web of Science)**   [Линк](https://doi.org/10.1016/j.molliq.2020.114283) | 1.000 | 0.00 |
| 99 | Parveen Akhtar, Avratanu Biswas, **Nia Petrova**, Tomas Zakar, Ivo H. M. van Stokkum, Petar H. Lambrev. Time‑resolved fluorescence study of excitation energy transfer in the cyanobacterium Anabaena PCC 7120. Photosynthesis research, Springer, 2020, DOI:https://doi.org/10.1007/s11120-020-00719-w, SJR (Scopus):1.07, JCR-IF (Web of Science):3.216   **Q1, не оглавява ранглистата (Scopus)**   [Линк](https://link.springer.com/article/10.1007/s11120-020-00719-w) | 1.000 | 16.67 |
| 100 | Pulov V., **Mladenov I.**. Further Deformations of the Axially-Symmetric Non-Bending Surfaces. J. Geom. Symmetry Phys., 55, 2020, ISSN:1312-5192, DOI:10.7546/jgsp-55-2020-51-73, 51-73. SJR (Scopus):0.178   **Q4 (MathSciNet )**   [Линк](https://projecteuclid.org/euclid.jgsp/1591257615) | 1.000 | 50.00 |
| 101 | Pulov V., **Mladenov I. M.**. Explicit Parameterizations of Non-Bending Torus-Like Surfaces. Geom., Integrability & Quantization, 21, 2020, ISSN:1314-3247, DOI:10.7546/giq-21-2020-251-264, 251-264. SJR (Scopus):0.244   **Q3 (Scopus)**   [Линк](http://www.bio21.bas.bg/proceedings/Proceedings_files/vol21content.htm) | 1.000 | 50.00 |
| 102 | Rakoczy Joanna, Krysciak Katarzyna, Drzymala-Celichowska Hanna, **Raikova Rositsa**, Celichowski Jan. Biomechanical conditioning of the moto unit transitory force decrease following a reduction in stimulation rate. BMC Sports Science, Medicine and Rehabilitation, Springer nature, 2020, DOI:DOI: 10.1186/s13102-020-00208-6, 1-9. SJR (Scopus):0.767, JCR-IF (Web of Science):1.979   **Q1 - оглавява ранглистата (Scopus)**   [Линк](https://bmcsportsscimedrehabil.biomedcentral.com/articles/10.1186/s13102-020-00208-6) | 1.000 | 20.00 |
| 103 | Rumiana Bakalova, **Severina Semkova**, Donika Ivanova, **Zhivko Zhelev**, Thomas Miller, Tsuguhide Takeshima, Sayaka Shibata, Dessislava Lazarova, Ichio Aoki, Tatsuya Higashi. Selective Targeting of Cancerous Mitochondria and Suppression of Tumor Growth Using Redox-Active Treatment Adjuvant. Oxidative Medicine and Cellular Longevity, vol. 2020, Article ID 6212935, Hindawi, 2020, ISSN:ISSN / eISSN: 1942-0900 / 1942-0994, DOI:https://doi.org/10.1155/2020/6212935, 30 pages. SJR (Scopus):1.394, JCR-IF (Web of Science):5.076   **Q1, не оглавява ранглистата (Scopus)**   [Линк](https://www.hindawi.com/journals/omcl/2020/6212935/) | 1.000 | 20.00 |
| 104 | Sabrina Dallavalle, Vladimir Dobričić, Loretta Lazzarato, Elena Gazzano, Miguel Machuqueiro, **Ilza Pajeva**, **Ivanka Tsakovska**, Nace Zidar, Roberta Fruttero. Improvement of conventional anti-cancer drugs as new tools against multidrug resistant tumors. Drug Resistance Updates, 50, 2020, DOI:https://doi.org/10.1016/j.drup.2020.100682, 100682. JCR-IF (Web of Science):11   **Q1, не оглавява ранглистата (Scopus)**   [Линк](https://www.sciencedirect.com/science/article/pii/S1368764620300091) | 1.000 | 22.22 |
| 105 | Sándor, J., **Atanassov, K. T.**. Restrictive factor and extension factor. Notes on Number Theory and Discrete Mathematics, 26, 2, 2020, DOI:10.7546/nntdm.2020.26.2.34-46, 34-46   **Без JCR или SJR – индексиран в WoS или Scopus (Web of Science)** | 1.000 | 50.00 |
| 106 | Shannon, A., **Atanassov, K.**, Sotirova, E., Vasilev, V.. Generalized Net Model for Creating and Evaluating of Educational Content. 2020 IEEE 10th International Conference on Intelligent Systems, IS 2020 - Proceedings, 2020, ISSN:978-172815456-5, DOI:10.1109/IS48319.2020.9200109, 517-520   **Без JCR или SJR – индексиран в WoS или Scopus (Scopus)**   [Линк](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092712471&doi=10.1109%2fIS48319.2020.9200109&partnerID=40&md5=c3805cc7e707fb760761827a3e4010fe) | 1.000 | 25.00 |
| 107 | Sindhujaa Vajravel, Hajnalka Laczkó-Dobos, **Nia Petrova**, Éva Herman, Terézia Kovács, Tomas Zakar, **Svetla Todinova**, **Stefka Taneva**, Lászlo Kovács, Zoltan Gombos, Tünde Tóth, **Sashka Krumova**. Phycobilisome integrity and functionality in lipid unsaturation and xanthophyll mutants in Synechocystis. Photosynthesis Research, 145, 2020, 179-188. JCR-IF (Web of Science):3.216   **Q1, не оглавява ранглистата (Web of Science)**   [Линк](https://link.springer.com/article/10.1007/s11120-020-00776-1) | 1.000 | 0.00 |
| 108 | Sotirova, E., Shannon, A., **Atanassova, V.**, **Atanassov, K.**, Bureva, V.. Interval Valued Intuitionistic Fuzzy Evaluations for Analysis of Students’ Knowledge. Studies in Computational Intelligence, 862, Springer, 2020, DOI:10.1007/978-3-030-35445-9\_6, 75-82. SJR (Scopus):0.215   **Q4 (Scopus)**   [Линк](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85080900844&doi=10.1007%2f978-3-030-35445-9_6&partnerID=40&md5=890220264f60ae9b22e64868023eeb07) | 1.000 | 0.00 |
| 109 | Tomov V, Iliev I, **Krasteva V**. High resolution FPGA pulse width modulation control of full-bridge DC–DC converters. IET Circuits, Devices & Systems, 14, 7, IET, Institution of Engineering and Technology, UK, 2020, ISSN:1751-858X, DOI:10.1049/iet-cds.2020.0068, 1110-1116. SJR (Scopus):0.289, JCR-IF (Web of Science):1.29   **Q3 (Scopus)**   [Линк](https://digital-library.theiet.org/content/journals/10.1049/iet-cds.2020.0068) | 1.000 | 33.33 |
| 110 | Traneva, V., **Atanassova, V.**, Tranev, S.. Three-dimensional interval-valued intuitionistic fuzzy appointment model. Studies in Computational Intelligence, 838, Springer, 2020, 181-199. SJR (Scopus):0.215   **Q4 (Scopus)**   [Линк](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068010112&doi=10.1007%2f978-3-030-22723-4_12&partnerID=40&md5=107eb19ea5ce3faca1a96cdb534b444a) | 1.000 | 33.33 |
| 111 | Traneva, V., Tranev, S., **Atanassova, V.**. Index matrices as a cost optimization tool of resource provisioning in uncertain cloud computing environment. Studies in Computational Intelligence, 838, Springer, 2020, DOI:10.1007/978-3-030-22723-4\_11, 155-179. SJR (Scopus):0.215   **Q4 (Scopus)**   [Линк](https://link.springer.com/chapter/10.1007/978-3-030-22723-4_11) | 1.000 | 33.33 |
| 112 | TRENDAFILOVA,A, IVANOVA,V, RANGELOV,M, TODOROVA,M, OZEC,G, YUR,S, OZEK,T, ANEVA,I, **VELEVA,R**, MOSKOVA-DOUMANOVA,V, DOUMANOV,J, TOPOUZOVA-HRISTOVA,T. Caffeoylquinic Acids, Cytotoxic, Antioxidant, Acetylcholinesterase and Tyrosinase Enzyme Inhibitory Activities of Six Inula Species from Bulgaria. Chemistry and Biodiversity, 2020, DOI:10.1002/CBDV.202000051, SJR (Scopus):0.41, JCR-IF (Web of Science):2.039   **Q2 (Web of Science)**   [Линк](https://onlinelibrary.wiley.com/doi/epdf/10.1002/cbdv.202000051) | 1.000 | 8.33 |
| 113 | Tsakov, H., Alexandrov, A., **Roeva, O.**, **Atanassova, V.**, **Vassilev, P.**, **Zoteva, D.**. Forest Fires of Bulgaria and National Security,. Proceedings of the International Scientific Conference “The Wide Security”, 2, 2020, 473-480   **Друго** | 1.000 | 0.00 |
| 114 | Ucum A., Ilarslan K., **Mladenov I. M.**. On Some Special Curves in Lorentz-Minkowski Plane. Surveys in Mathematics and its Applications, 15, 2020, ISSN:1843-7265, 1842-6298, 459-470. SJR (Scopus):0.1   **Q4 (Scopus)**   [Линк](http://www.utgjiu.ro/math/sma/v15/p15_18.pdf) | 1.000 | 33.33 |
| 115 | Velikova V., C. Arena, L. G. Izzo, Ts. Tsonev, D. Koleva, M. Tattini, **O. Roeva**, A. De Maio, F. Loreto. Functional and Structural Leaf Plasticity Determine Photosynthetic Performances during Drought Stress and Recovery in Two Platanus orientalis Populations from Contrasting Habitats. International Journal of Molecular Science, 21, 11, 2020, DOI:https://doi.org/10.3390/ijms21113912, 3912. SJR (Scopus):1.317, JCR-IF (Web of Science):4.556   **Q1, не оглавява ранглистата (Scopus)**   [Линк](https://doi.org/10.3390/ijms21113912) | 1.000 | 11.11 |
| 116 | Victoria Vitkova, Denitsa Mitkova, **Vesela Yordanova**, Peter Pohl, Udo Bakowsky, **Galya Staneva**, Oleg Batishchev. Elasticity and phase behaviour of biomimetic membrane systems containing tetraether archaeal lipids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, Elsevier, 2020, ISSN:0927-7757, DOI:https://doi.org/10.1016/j.colsurfa.2020.124974, SJR (Scopus):0.78, JCR-IF (Web of Science):3.99   **Q1, не оглавява ранглистата (Scopus)**   [Линк](https://www.sciencedirect.com/science/article/pii/S0927775720305677?via%3Dihub) | 1.000 | 28.57 |
| 117 | Yankova R, **A. Kostadinova**, R. Toshkovska, I Ivanova. Characterisation and in vitro cytotoxicity of silver(I) benzimidazole complex.. Oxidation Communications, 43, 4, 2020, ISSN:0209-4541, SJR (Scopus):0.224   **Q3 (Scopus)**   [Линк](https://scibulcom.net/en/article/f7kX5SHFb64QIaAGgA7u) | 1.000 | 25.00 |
| 118 | Yankova, R., **Kostadinova, A.**, L Radev. DFT calculations, characterization and in vitro cytotoxicity of platinum(II) complex of 3-amino-1,2,4-triazole [Pt(3-amino-1,2,4-triazole)2Cl2]. 55, 5, Journal of Chemical Technology and Metallurgy, 2020, ISSN:1314-7978, 965-978. SJR (Scopus):0.19   **Q3 (Scopus)**   [Линк](https://dl.uctm.edu/journal/node/j2020-5/7_19-240_p965-978.pdf) | 1.000 | 33.33 |
| 119 | Zhiponova, M., Paunov, M., Anev, S., **Petrova, N.**, **Krumova, S.**, Raycheva, A., Goltsev, V., Tzvetkova, N., **Taneva, S.**, Sapunov, K., Chaneva, G.. JIP-test as a tool for early diagnostics of plant growth and flowering upon selected light recipe. Photosynthetica, 58 (SI), 2020, 214-223. SJR (Scopus):0.647, JCR-IF (Web of Science):2.365   **Q2 (Web of Science)**   [Линк](https://ps.ueb.cas.cz/artkey/phs-202002-0022_special-issue-in-honour-of-prof-reto-j-strasser-8211-jip-test-as-a-tool-for-early-diagnostics-of-plant-gro.php) | 1.000 | 27.27 |
| 120 | Цончев З., **Александров А.**, **Момчилова А.**, Панков Р., Орозова М., Георгиева Р., Георгиев С., Александров С., Воинов В., Аная Ф., Кенаров П., Даскалов М. Терапевтична афереза с нанатехнологична мембрана при заболявания у човека. първо издание, втори том, Издателство ва БАН "Проф. Марин Дринов", 2020, ISBN:978-619-245-037-3, 163   **Друго** | 1.000 | 16.67 |
| Коригиран брой: 120.000 |

# II: Всички публикации - приети за публикуване

* **Звено: ( ИББИ ) Институт по биофизика и биомедицинско инженерство**
* **Тип на публикацията**:
Научна монография
Глава от научна монография
Студия в научно списание
Статия в научно списание
Статия в сборник на научен форум
Студия в тематичен сборник
Статия в тематичен сборник
Научно съобщение
* **Година на приемане**: 2020 ÷ 2020
* **Тип записи**: Записи, които влизат в отчета на звеното

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| **№** | **Публикация** | **Коригиращ Коефициент** | **Процент автори от звеното** |
| 1 | **Atanassov, K.**, Bureva, V.. Four Operations over Extended Intuitionistic Fuzzy Index Matrices and Some of Their Applications. Studies in Computational Intelligence, 902, 2021, DOI:10.1007/978-3-030-55347-0\_3, 27-39. SJR (Scopus):0.215   **Q4 (Scopus)**   [Линк](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090528520&doi=10.1007%2f978-3-030-55347-0_3&partnerID=40&md5=aec7ddfb84cd37c7eb2fb412973e3322) | 1.000 | 0.00 |
| 2 | **Stefan Hadjitodorov**, **Boyan Boyanov**. Detection and Verification for the Presence of Stress by means of Voice Analysis and Neural Networks. Engineering Sciences Journal, 4, BAS, 2021   **Международно академично издателство** | 1.000 | 0.00 |
| 3 | Vasilev, V., Sotirova, E., **Atanassov, K.**, Sotirov, S.. Intuitionistic Fuzzy Assessments of the Abdominal Aorta and Its Branches. Advances in Intelligent Systems and Computing, 1197, Springer, 2021, DOI:10.1007/978-3-030-51156-2\_4, 26-31. SJR (Scopus):0.184   **Q3 (Scopus)**   [Линк](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088748819&doi=10.1007%2f978-3-030-51156-2_4&partnerID=40&md5=7886eebfb6d925ea24325949a3728a53) | 1.000 | 25.00 |
| 4 | **Atanassov, K.**, **T. Pencheva**. InterCriteria Analysis Approach as a Tool for Promising Decision Making in Physiological Rhythms. 2019-20 MATRIX Annals, приета за печат: 2020   **Международно академично издателство** | 1.000 | 0.00 |
| 5 | **Dobrikova A.**, **Apostolova E.**, Hanć A., **Yotsova E.**, **Borisova P.**, Sperdouli I., Adamakis I.-D.S., Moustakas M.. Cadmium toxicity in Salvia sclarea L: An integrative response of element uptake, oxidative stress markers, leaf structure and photosynthesis. Ecotoxicology and Environmental Safety, 209, Elsevier, приета за печат: 2020, DOI:doi:10.1016/j.ecoenv.2020.111851, SJR (Scopus):1.178, JCR-IF (Web of Science):4.872   **Q1, не оглавява ранглистата (Scopus)**   [Линк](https://www.sciencedirect.com/science/article/pii/S0147651320316870) | 1.000 | 50.00 |
| 6 | **Jereva, D.**, **T. Pencheva**, **I. Tsakovska**, **P. Alov**, **I. Pajeva**. Exploring Applicability of InterCriteria Analysis to Evaluate the Performance of MOE and GOLD Scoring Functions. Studies in Computational Intelligence, приета за печат: 2020, SJR (Scopus):0.215   **Q4 (Scopus)**   [Линк](https://www.scopus.com/sourceid/4900152708?origin=resultslist) | 1.000 | 0.00 |
| 7 | **M. Petrov**. Multiple-Objective Optimisation of the Ethanol Production from strain Saccharomyces sereviciae. Information Technologies and Control, приета за печат: 2020   **Национално академично издателство** | 1.000 | 100.00 |
| 8 | **M. Petrov**. Optimisation of Biotechnological Processes through Combined Algorithm. Information Technologies and Control, приета за печат: 2020   **Национално академично издателство** | 1.000 | 100.00 |
| 9 | **Mancheva, K.**, **Kossev, A.**. Hemisphere asymmetry during different levels of co-activation of antagonist muscles: a transcranial magnetic stimulation study. Comptes rendus de l’Académie bulgare des Sciences, приета за печат: 2020, JCR-IF (Web of Science):0.343   **Q2 (Scopus)**   [Линк](http://www.proceedings.bas.bg/) | 1.000 | 100.00 |
| 10 | **P. Vassilev**, **L. Todorova**, **E. Marinov**. On intuitionistic fuzziness. Book series Studies in Computational Intelligence, Research in Computer Science in the Bulgarian Academy of Sciences, Springer Nature, приета за печат: 2020   **Международно академично издателство (Scopus)** | 1.000 | 0.00 |
| 11 | **Pajeva I.**, **Tsakovska I.**, **Pencheva T.**, **Alov P.**, **Al Sharif M.**, **Lesigiarska I.**, **Jereva D.**, **Diukendjieva A.**. In silico studies of biоlogically active molecules. In: Research in Computer Science in the Bulgarian Academy of Sciences (Ed. K.T. Atanassov) Book series: Studies in Computational Intelligence, Springer Nature, приета за печат: 2020, SJR (Scopus):0.215   **Q4 (Scopus)**   [Линк](https://www.scopus.com/sourceid/4900152708?origin=resultslist) | 1.000 | 100.00 |
| 12 | **Stefan Hadjitodorov**. Acoustic analysis of voices. Book series Studies in Computational Intelligence, Research in Computer Science in the Bulgarian Academy of Sciences, Springer Nature, приета за печат: 2020, SJR (Scopus):0.215   **Q4 (Scopus)**   [Линк](https://www.scimagojr.com/journalsearch.php?q=4900152708&tip=sid&clean=0) | 1.000 | 100.00 |
| 13 | **Stefanov M.**, **Rashkov G.**, **Yotsova E.**, **Borisova P.**, **Dobrikova A.**, **Apostolova E.**. Effects of salt stress on the photosynthesis of maize and sorghum. Ecologia Balkanica, 3, UNIVERSITY OF PLOVDIV PUBLISHING HOUSE, приета за печат: 2020, ISSN:1313-9940, SJR (Scopus):0.134   **Q4 (Scopus)**   [Линк](http://eb.bio.uni-plovdiv.bg) | 1.000 | 100.00 |
| 14 | **Stoichev S.**, **Taneva S.G.**, **Danailova A.**, Toca-Herrera J.L., **Andreeva T.**. Encapsulation of opiorphin in polymer coated alginate beads for controlled delivery and pain killing. International Journal of Bioautomation, приета за печат: 2020, SJR (Scopus):0.242   **Q3 (Scopus)**   [Линк](https://www.scimagojr.com/journalsearch.php?q=19900193629&tip=sid&clean=0) | 1.000 | 80.00 |
| 15 | **Vesela Yordanova**, **Galya Staneva**, Miglena Angelova, Victoria Vitkova, **Aneliya Kostadinova**, Dayana Benkova, **Ralitsa Veleva**, **Rusina Hazarosova**. Modeling of molecular mechanisms of membrane domain formation during the oxidative stress: effect of palmitoyl-oxovaleroyl-phosphatidylcholine. Comptes rendus de l’Académie bulgare des Sciences, приета за печат: 2020, SJR (Scopus):0.218, JCR-IF (Web of Science):0.343   **Q2 (Scopus)**   [Линк](http://www.proceedings.bas.bg/) | 1.000 | 62.50 |
| 16 | Tsakov, H., **Roeva, O.**, Marinkov, V., **Zoteva, D.**, Delkov, A.. The Problem “Safety – Security” in the Fight Against Forest Fires. Ecological Engineering and Environment Protection, приета за печат: 2020   **Друго** | 1.000 | 40.00 |
| 17 | Цаков, Х., Александров, А., **Роева, О.**, **Зотева, Д.**, **Атанасова, В.**, **Василев, П.**. Горските пожари през 2019 година – особености и тенденции. XXII-ра международна научна конференция „Управление и устойчиво развитие”, приета за печат: 2020   **Друго** | 1.000 | 0.00 |
| Коригиран брой: 17.000 |

# III: Научни публикации в издания, индексирани в WoS, Scopus, ERIH+(публикувани)

* **Звено: ( ИББИ ) Институт по биофизика и биомедицинско инженерство**
* **Тип на публикацията**:
Глава от научна монография
Студия в научно списание
Статия в научно списание
Статия в сборник на научен форум
Студия в тематичен сборник
Статия в тематичен сборник
Научно съобщение
* **Статус на изданието**:
Q1 - оглавява ранглистата
Q1, не оглавява ранглистата
Q2
Q3
Q4
SJR, непопадащ в Q категория
Без JCR или SJR – индексиран в WoS или Scopus
Индексирано в ERIH+
* **Година на публикуване**: 2020 ÷ 2020
* **Тип записи**: Записи, които влизат в отчета на звеното

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| **№** | **Публикация** | **Коригиращ Коефициент** | **Процент автори от звеното** |
| 1 | **Andreev, N.**, **Pencheva, T.**, **Ribagin, S.**, **Atanassov, K.**. Generalized net model of blood donation processes. Advances in Intelligent Systems and Computing, 1081, 2020, 147-154. SJR (Scopus):0.184   **Q3 (Scopus)**   [Линк](https://link.springer.com/chapter/10.1007/978-3-030-47024-1_16) | 1.000 | 100.00 |
| 2 | **Andreeva T.D.**, Dér A., Kelemen L., Krastev R., **Taneva S.G.**. Modulation of the internal structure and surface properties of natural and synthetic polymer matrices by graphene oxide doping. Polymers Advanced Technology, 31, 7, Wiley, 2020, ISSN:1099-1581, DOI:10.1002/pat.4885, 1562-1570. JCR-IF (Web of Science):2.578   **Q2 (Web of Science)**   [Линк](https://onlinelibrary.wiley.com/doi/10.1002/pat.4885) | 1.000 | 40.00 |
| 3 | **Angelova, M.**, **P. Vassilev**, **T. Pencheva**. Genetic Algorithm and Cuckoo Search Hybrid Technique for Parameter Identification of Fermentation Process Model. Int J Bioautomation, 24, 3, 2020, SJR (Scopus):0.242   **Q3 (Scopus)**   [Линк](http://www.biomed.bas.bg/bioautomation/2020/vol_24.3/files/24.3_07.pdf) | 1.000 | 100.00 |
| 4 | **Ariana Langari**, **Avgustina Danailova**, **Sashka Krumova**, Regina Komsa-Penkova, Georgi Golemanov, **Ina Giosheva**, Emil Gartchev, **Stefka G. Taneva**, **Svetla Todinova**. Aging-related changes in the calorimetric profile of red blood cells from women with miscarriages. Journal of Thermal Analysis and Calorimetry volume, 142, 2020, 1919-1926. SJR (Scopus):0.415, JCR-IF (Web of Science):2.731   **Q2 (Web of Science)**   [Линк](https://link.springer.com/article/10.1007/s10973-020-10112-3) | 1.000 | 66.67 |
| 5 | **Atanassov, K. T.**, Sándor, J.. Extension factor: Definition, properties and problems. Part 2. Notes on Number Theory and Discrete Mathematics, 26, 1, 2020, DOI:10.7546/nntdm.2020.26.1.31-39, 31-39   **Без JCR или SJR – индексиран в WoS или Scopus (Web of Science)** | 1.000 | 0.00 |
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| 94 | Velikova V., C. Arena, L. G. Izzo, Ts. Tsonev, D. Koleva, M. Tattini, **O. Roeva**, A. De Maio, F. Loreto. Functional and Structural Leaf Plasticity Determine Photosynthetic Performances during Drought Stress and Recovery in Two Platanus orientalis Populations from Contrasting Habitats. International Journal of Molecular Science, 21, 11, 2020, DOI:https://doi.org/10.3390/ijms21113912, 3912. SJR (Scopus):1.317, JCR-IF (Web of Science):4.556   **Q1, не оглавява ранглистата (Scopus)**   [Линк](https://doi.org/10.3390/ijms21113912) | 1.000 | 11.11 |
| 95 | Victoria Vitkova, Denitsa Mitkova, **Vesela Yordanova**, Peter Pohl, Udo Bakowsky, **Galya Staneva**, Oleg Batishchev. Elasticity and phase behaviour of biomimetic membrane systems containing tetraether archaeal lipids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, Elsevier, 2020, ISSN:0927-7757, DOI:https://doi.org/10.1016/j.colsurfa.2020.124974, SJR (Scopus):0.78, JCR-IF (Web of Science):3.99   **Q1, не оглавява ранглистата (Scopus)**   [Линк](https://www.sciencedirect.com/science/article/pii/S0927775720305677?via%3Dihub) | 1.000 | 28.57 |
| 96 | Yankova R, **A. Kostadinova**, R. Toshkovska, I Ivanova. Characterisation and in vitro cytotoxicity of silver(I) benzimidazole complex.. Oxidation Communications, 43, 4, 2020, ISSN:0209-4541, SJR (Scopus):0.224   **Q3 (Scopus)**   [Линк](https://scibulcom.net/en/article/f7kX5SHFb64QIaAGgA7u) | 1.000 | 25.00 |
| 97 | Yankova, R., **Kostadinova, A.**, L Radev. DFT calculations, characterization and in vitro cytotoxicity of platinum(II) complex of 3-amino-1,2,4-triazole [Pt(3-amino-1,2,4-triazole)2Cl2]. 55, 5, Journal of Chemical Technology and Metallurgy, 2020, ISSN:1314-7978, 965-978. SJR (Scopus):0.19   **Q3 (Scopus)**   [Линк](https://dl.uctm.edu/journal/node/j2020-5/7_19-240_p965-978.pdf) | 1.000 | 33.33 |
| 98 | Zhiponova, M., Paunov, M., Anev, S., **Petrova, N.**, **Krumova, S.**, Raycheva, A., Goltsev, V., Tzvetkova, N., **Taneva, S.**, Sapunov, K., Chaneva, G.. JIP-test as a tool for early diagnostics of plant growth and flowering upon selected light recipe. Photosynthetica, 58 (SI), 2020, 214-223. SJR (Scopus):0.647, JCR-IF (Web of Science):2.365   **Q2 (Web of Science)**   [Линк](https://ps.ueb.cas.cz/artkey/phs-202002-0022_special-issue-in-honour-of-prof-reto-j-strasser-8211-jip-test-as-a-tool-for-early-diagnostics-of-plant-gro.php) | 1.000 | 27.27 |
| Коригиран брой: 98.000 |

# IV: Научни публикации в издания, индексирани в WoS, Scopus, ERIH+(приети за публикуване)

* **Звено: ( ИББИ ) Институт по биофизика и биомедицинско инженерство**
* **Тип на публикацията**:
Глава от научна монография
Студия в научно списание
Статия в научно списание
Статия в сборник на научен форум
Студия в тематичен сборник
Статия в тематичен сборник
Научно съобщение
* **Статус на изданието**:
Q1 - оглавява ранглистата
Q1, не оглавява ранглистата
Q2
Q3
Q4
SJR, непопадащ в Q категория
Без JCR или SJR – индексиран в WoS или Scopus
Индексирано в ERIH+
* **Година на приемане**: 2020 ÷ 2020
* **Тип записи**: Записи, които влизат в отчета на звеното

|  |  |  |  |
| --- | --- | --- | --- |
| **№** | **Публикация** | **Коригиращ Коефициент** | **Процент автори от звеното** |
| 1 | **Atanassov, K.**, Bureva, V.. Four Operations over Extended Intuitionistic Fuzzy Index Matrices and Some of Their Applications. Studies in Computational Intelligence, 902, 2021, DOI:10.1007/978-3-030-55347-0\_3, 27-39. SJR (Scopus):0.215   **Q4 (Scopus)**   [Линк](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090528520&doi=10.1007%2f978-3-030-55347-0_3&partnerID=40&md5=aec7ddfb84cd37c7eb2fb412973e3322) | 1.000 | 0.00 |
| 2 | Vasilev, V., Sotirova, E., **Atanassov, K.**, Sotirov, S.. Intuitionistic Fuzzy Assessments of the Abdominal Aorta and Its Branches. Advances in Intelligent Systems and Computing, 1197, Springer, 2021, DOI:10.1007/978-3-030-51156-2\_4, 26-31. SJR (Scopus):0.184   **Q3 (Scopus)**   [Линк](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088748819&doi=10.1007%2f978-3-030-51156-2_4&partnerID=40&md5=7886eebfb6d925ea24325949a3728a53) | 1.000 | 25.00 |
| 3 | **Dobrikova A.**, **Apostolova E.**, Hanć A., **Yotsova E.**, **Borisova P.**, Sperdouli I., Adamakis I.-D.S., Moustakas M.. Cadmium toxicity in Salvia sclarea L: An integrative response of element uptake, oxidative stress markers, leaf structure and photosynthesis. Ecotoxicology and Environmental Safety, 209, Elsevier, приета за печат: 2020, DOI:doi:10.1016/j.ecoenv.2020.111851, SJR (Scopus):1.178, JCR-IF (Web of Science):4.872   **Q1, не оглавява ранглистата (Scopus)**   [Линк](https://www.sciencedirect.com/science/article/pii/S0147651320316870) | 1.000 | 50.00 |
| 4 | **Jereva, D.**, **T. Pencheva**, **I. Tsakovska**, **P. Alov**, **I. Pajeva**. Exploring Applicability of InterCriteria Analysis to Evaluate the Performance of MOE and GOLD Scoring Functions. Studies in Computational Intelligence, приета за печат: 2020, SJR (Scopus):0.215   **Q4 (Scopus)**   [Линк](https://www.scopus.com/sourceid/4900152708?origin=resultslist) | 1.000 | 0.00 |
| 5 | **Mancheva, K.**, **Kossev, A.**. Hemisphere asymmetry during different levels of co-activation of antagonist muscles: a transcranial magnetic stimulation study. Comptes rendus de l’Académie bulgare des Sciences, приета за печат: 2020, JCR-IF (Web of Science):0.343   **Q2 (Scopus)**   [Линк](http://www.proceedings.bas.bg/) | 1.000 | 100.00 |
| 6 | **Pajeva I.**, **Tsakovska I.**, **Pencheva T.**, **Alov P.**, **Al Sharif M.**, **Lesigiarska I.**, **Jereva D.**, **Diukendjieva A.**. In silico studies of biоlogically active molecules. In: Research in Computer Science in the Bulgarian Academy of Sciences (Ed. K.T. Atanassov) Book series: Studies in Computational Intelligence, Springer Nature, приета за печат: 2020, SJR (Scopus):0.215   **Q4 (Scopus)**   [Линк](https://www.scopus.com/sourceid/4900152708?origin=resultslist) | 1.000 | 100.00 |
| 7 | **Stefan Hadjitodorov**. Acoustic analysis of voices. Book series Studies in Computational Intelligence, Research in Computer Science in the Bulgarian Academy of Sciences, Springer Nature, приета за печат: 2020, SJR (Scopus):0.215   **Q4 (Scopus)**   [Линк](https://www.scimagojr.com/journalsearch.php?q=4900152708&tip=sid&clean=0) | 1.000 | 100.00 |
| 8 | **Stefanov M.**, **Rashkov G.**, **Yotsova E.**, **Borisova P.**, **Dobrikova A.**, **Apostolova E.**. Effects of salt stress on the photosynthesis of maize and sorghum. Ecologia Balkanica, 3, UNIVERSITY OF PLOVDIV PUBLISHING HOUSE, приета за печат: 2020, ISSN:1313-9940, SJR (Scopus):0.134   **Q4 (Scopus)**   [Линк](http://eb.bio.uni-plovdiv.bg) | 1.000 | 100.00 |
| 9 | **Stoichev S.**, **Taneva S.G.**, **Danailova A.**, Toca-Herrera J.L., **Andreeva T.**. Encapsulation of opiorphin in polymer coated alginate beads for controlled delivery and pain killing. International Journal of Bioautomation, приета за печат: 2020, SJR (Scopus):0.242   **Q3 (Scopus)**   [Линк](https://www.scimagojr.com/journalsearch.php?q=19900193629&tip=sid&clean=0) | 1.000 | 80.00 |
| 10 | **Vesela Yordanova**, **Galya Staneva**, Miglena Angelova, Victoria Vitkova, **Aneliya Kostadinova**, Dayana Benkova, **Ralitsa Veleva**, **Rusina Hazarosova**. Modeling of molecular mechanisms of membrane domain formation during the oxidative stress: effect of palmitoyl-oxovaleroyl-phosphatidylcholine. Comptes rendus de l’Académie bulgare des Sciences, приета за печат: 2020, SJR (Scopus):0.218, JCR-IF (Web of Science):0.343   **Q2 (Scopus)**   [Линк](http://www.proceedings.bas.bg/) | 1.000 | 62.50 |
| Коригиран брой: 10.000 |