

## Списък на всички научни 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:** 2017 ÷ 2017
- **Тип записи:** Записи, които влизат в отчета на звеното

1. **Al Sharif, M., Alov, P., Diukendjieva, A., Vitcheva, V., Simeonova, R., Krasteva, I., Shkondrov, A., Tsakovska, I., Pajeva, I.** Molecular determinants of PPAR $\gamma$  partial agonism and related in silico / in vivo studies of natural saponins as potential type 2 diabetes modulators. *Food Chem Toxicol*, 112, Elsevier, 2017, ISSN:0278-6915, DOI:10.1016/j.fct.2017.12.009, 47-59. ISI IF:3.778
2. **Al Sharif, M., Alov, P., Vitcheva, V., Diukendjieva, A., Mori, M., Botta, B., Tsakovska, I., Pajeva, I.** Natural modulators of nonalcoholic fatty liver disease: Mode of action analysis and in silico ADME-Tox prediction. *Toxicol Appl Pharmacol*, 337, Elsevier, 2017, ISSN:0041-008X, DOI:10.1016/j.taap.2017.10.013, 45-66. ISI IF:3.791
3. **Al Sharif, M., Tsakovska, I., Pajeva, I., Alov, P., Fioravanzo, E., Bassan, A., Kovarich, S., Yang, C., Mostrag-Szlichtyng, A., Vitcheva, V., Worth, A.P., Richarz, A.N., Cronin, M.T.D.** The application of molecular modelling in the safety assessment of chemicals: A case study on ligand-dependent PPAR $\gamma$  dysregulation. *Toxicology*, Elsevier, 2017, ISSN:0300-483X, DOI:10.1016/j.tox.2016.01.009, SJR:1.335, ISI IF:3.582
4. **Aneliya Kostadinova, Todorka G Vladkova, Iliana A Ivanova, Anna D Staneva, Madalina G Albu-Kaya, Ahmed Shalabi, Vesela Moskova-Duomanova.** Preparation and Biological Activity of New Collagen Composites, Part III. Collagen/(Ag/RGO) and Collagen/(Ag/RGO/SiO<sub>2</sub>) Composites. *Journal of Archives in Military Medicine*, 2017, ISSN:2345-5063 2345-5071
5. **Aneliya Kostadinova, Todorka Vladkova, Iliana Ivanova, Anna Staneva, Madalina G Albu, Ahmed S A Shalaby, Taniya Topousova.** Preparation and Biological Activity of New Collagen Composites Part II: Collagen/Reduced Graphene Oxide Composites. *Journal of Archives in Military Medicine*, 2017, ISSN:2345-5063 2345-5071
6. **Angelova, M., Pencheva, T.** InterCriteria Analysis of Multi-population Genetic Algorithms Performance. *Annals of Computer Science and Information Systems*, 13, 2017, ISBN:978-83-922646-2-0 (Web), 978-83-922646-3-7 (USB), 77-82
7. **Angelova, N., Stoenchev, M., Todorov, V.** Intuitionistic fuzzy conjunctions and disjunctions from second type. *Issues in IFSs and GNs*, 13, 2017, ISBN:978-83-61551-21-8, 143-170
8. **Atanassov, K., Szmidt, E., Kacprzyk, J., Vassilev, P.** On intuitionistic fuzzy pairs of n-th type. *Issues in IFSs and GNs*, 13, 2017, ISBN:978-83-61551-21-8, 136-142
9. **Atanassov, K.** A new modal operator over intuitionistic fuzzy sets. Part 2.. *Issues in IFSs and GNs*, 13, 2017, ISBN:978-83-61551-21-8, 171-177

10. **Atanassov, Krassimir, Ribagin, Simeon**, Doukovska, Lyubka, **Atanassova, Vassia**. Intuitionistic fuzzy implication →190. Notes on Intuitionistic Fuzzy Sets, 23, 4, 2017, ISSN:Print ISSN 1310-4926, Online ISSN 2367-8283, 79-83
11. **Atanassov, Krassimir**, Andonov, Velin, Krawczak, Maciej. On intuitionistic fuzzy modes, medians and mean elements. Notes on Intuitionistic Fuzzy Sets, 23, 3, 2017, ISSN:Print ISSN 1310-4926, Online ISSN 2367-8283, 17-22
12. **Atanassov, Krassimir**, De Tre, Guy, Angelova, Nora. On a special type of intuitionistic fuzzy implications. Notes on Intuitionistic Fuzzy Sets, 23, 4, 2017, ISSN:Print ISSN 1310-4926, Online ISSN 2367-8283, 2-9
13. **Atanassov, Krassimir**, Szmidt, Eulalia, Angelova, Nora. Properties of the intuitionistic fuzzy implication →187. Notes on Intuitionistic Fuzzy Sets, 23, 3, 2017, ISSN:Print ISSN 1310-4926, Online ISSN 2367-8283, 3-8
14. **Atanassov, Krassimir**, Szmidt, Eulalia, Kacprzyk, Janusz, **Atanassova, Vassia**. An approach to a constructive simplification of multiagent multicriteria decision making problems via intercriteria analysis. Comptes rendus de l'Academie bulgare des Sciences, 70, 8, 2017, ISSN:ISSN 1310-1331, 1147-1156. ISI IF:0.251
15. **Atanassov, Krassimir**, Szmidt, Eulalia, Kacprzyk, Janusz. Intuitionistic fuzzy implication →187. Notes on Intuitionistic Fuzzy Sets, 23, 2, 2017, ISSN:Print ISSN 1310-4926, Online ISSN 2367-8283, 37-43
16. **Atanassov, Krassimir**, Szmidt, Eulalia, Kacprzyk, Janusz. Intuitionistic fuzzy implication →188. Notes on Intuitionistic Fuzzy Sets, 23, 1, 2017, ISSN:Print ISSN 1310-4926, Online ISSN 2367-8283, 6-13
17. **Atanassov, Krassimir**, Szmidt, Eulalia, Kacprzyk, Janusz. Multiplicative type of operations over intuitionistic fuzzy pairs. Proc. of Flexible Query Answering Systems'2017 (H. Christiansen, H. Jaudoin, P. Chountas, T. Andreasen, H. L. Larsen, Eds.), Springer, 2017, ISBN:ISBN 978-3-319-59691-4, ISSN:ISSN 0302-9743, 201-208
18. **Atanassov, Krassimir**. Errata, or a new form of the uniformly expanding intuitionistic fuzzy operator. Notes on Intuitionistic Fuzzy Sets, 23, 1, 2017, ISSN:Print ISSN 1310-4926, Online ISSN 2367-8283, 100-103
19. **Atanassov, Krassimir**. Inequalities for  $\varphi$  and  $\psi$  functions (III). Notes on Number Theory and Discrete Mathematics, 23, 1, 2017, ISSN:1310-5132 (print), 2367-8275 (online), 19-23
20. **Atanassov, Krassimir**. Intuitionistic Fuzzy Logics. Studies in Fuzziness and Soft Computing, 351, Springer, 2017, ISBN:978-3-319-48952-0, 138
21. **Atanassov, Krassimir**. New intuitionistic fuzzy extended modal operators. Notes on Intuitionistic Fuzzy Sets, 23, 4, 2017, ISSN:Print ISSN 1310-4926, Online ISSN 2367-8283, 40-45
22. **Atanassov, Krassimir**. On two new two-dimensional extensions of the Fibonacci sequence. Notes on Number Theory and Discrete Mathematics, 23, 3, 2017, ISSN:1310-5132 (print), 2367-8275 (online), 115-122
23. **Atanassov, Krassimir**. Short remark on a special numerical sequence. Notes on Number Theory and Discrete Mathematics, 23, 4, 2017, ISSN:1310-5132 (print), 2367-8275 (online), 14-17
24. **Atanassov, Krassimir**. Type-1 Fuzzy Sets and Intuitionistic Fuzzy Sets. Algorithms, 10, 3, 2017, ISSN:1999-4893, DOI:doi:10.3390/a10030106, 106. SJR:0.341
25. **Atanassova, Vassia**, Doukovska, Lyubka, De Tre, Guy, Radeva, Irina. Intercriteria analysis and comparison of innovation-driven and efficiency-to-innovation driven economies in the European Union. Notes on Intuitionistic Fuzzy Sets, 23, 3, 2017, ISSN:Print ISSN 1310-4926, Online ISSN 2367-8283, 54-68

26. **Atanassova, Vassia**, Doukovska, Lyubka. Compass-and-straightedge constructions in the intuitionistic fuzzy interpretational triangle: two new intuitionistic fuzzy modal operators. *Notes on Intuitionistic Fuzzy Sets*, 23, 2, 2017, ISSN:Print ISSN 1310-4926, Online ISSN 2367-8283, 1-7
27. **Atanassova, Vassia**. New Modified Level Operator Ny Over Intuitionistic Fuzzy Sets. *Proc. of 12th International Conference on Flexible Query Answering Systems (FQAS 2017)*, London, UK, June 21–22, 2017, (Christiansen, H., H. Jaudoin, P. Chountas, T. Andreasen, H. L. Larsen (Eds.), LNAI 10333, Springer, 2017, ISBN:978-3-319-59691-4, ISSN:0302-9743, DOI:10.1007/978-3-319-59692-1\_18, 209-214. SJR:0.315
28. **Christov I, Neycheva T**, Schmid R, **Stoyanov T**, Abächerli R. Pseudo real-time low-pass filter in ECG, self-adjustable to the frequency spectra of the waves. 2017, ISSN:1741-0444, DOI:MBEC-D-16-00287R4, 1-10. SJR:2.57, ISI IF:1.79
29. **Danailova, A., Todinova, S. J.**, Dimitrova, K., Petkova, V., Guenova, M., Mihaylov, G., Gartcheva, L., **Krumova, S., Taneva, S. G.**. Effect of autologous stem-cells transplantation of patients with multiple myeloma on the calorimetric markers of the serum proteome. Correlation with the immunological markers. *Thermochimica Acta*, 655, 2017, ISSN:00406031, DOI:http://dx.doi.org/10.1016/j.tca.2017.08.001, 351-357. ISI IF:2.236
30. **Dimitrov A.G.**. An approach to expand description of the pump and co-transporter steady-state current.. *Journal of Theoretical Biology*, 412, Elsevier, 2017, ISSN:0022-5193, DOI:10.1016/j.jtbi.2016.10.006, 94-99. SJR:1.089, ISI IF:2.049
31. **Dimitrov A.G.**. Illustration of model creation on example of approximations to the steady state current of chemical cyclic processes. *INTERNATIONAL SCIENTIFIC CONFERENCE MATHEMATICAL MODELING, 1, SCIENTIFIC TECHNICAL UNION OF MECHANICAL ENGINEERING "INDUSTRY-4.0"*, 2017, ISSN:2603-3003 (Online) 2535-0978 (Print), 163-166
32. **Diukendjieva, A., Al Sharif, M., Alov, P., Pencheva, T., Tsakovska, I., Paeva, I.**. ADME/Tox Properties and Biochemical interactions of Silybin Congeners: In Silico Study. *Natural Product Communications*, 12, 2, 2017, ISSN:1555-9475, 175-178. ISI IF:0.773
33. **Dobrikova, A.G., Yotsova, E. K.**, Börner, A., Landjeva, S.P., **Apostolova, E.L.**. The wheat mutant DELLA-encoding gene (Rht-B1c) affects plant photosynthetic responses to cadmium stress.. *Plant Physiology and Biochemistry*, 114, Elsevier, 2017, ISSN:0981-9428, DOI:doi: 10.1016/j.plaphy.2017.02.015, 10-18. SJR:1.159, ISI IF:2.724
34. **Dobrikova, A.G.**. Signaling Molecules in Plants: Exogenous Application. *Acta Scientific Agriculture*, 1, 1, 2017, ISSN:in procedure, 38-41
35. **Faik, A., Vasilev, D., Stanoeva, D., Velitchkova, M.**. Suboptimal growth temperature and light intensity effects on Photosystem II activity and oxygen evolution of tomato (*Solanum lycopersicum*). *Comptes rendus de l'Académie bulgare des Sciences*, 70, 9, "Prof. Marin Drinov" Publishing House of BAS, 2017, ISSN:ISSN 1310–1331 (Print) ISSN 2367–5535 (Online), 1247-1254. SJR:0.206, ISI IF:0.251
36. **Fratev, F.**. PPAR $\gamma$  non-covalent antagonists exhibit mutable binding modes with a similar free energy of binding: a case study. *J Biomol Struct Dyn.*, 35(3), 2017, ISSN:0739-1102 (Print), 1538-0254 (Electronic), 476-485. ISI IF:2.3
37. **Gerganova, M., Stanoeva, D., Popova, A.V., Velitchkova, M.** Alterations in pigment content and photosynthetic performance of *Arabidopsis thaliana* plants under combined action of low temperature and high light. *Comptes rendus de l'Académie bulgare des Sciences*, 70, 9, "Prof. Marin Drinov" Publishing House of BAS, 2017, ISSN:2367–5535, 1255-1261. ISI IF:0.206
38. **Ivanov, AG, Velitchkova, M**, Allakhverdiev, Suleyman I., Huner, NPA. Heat stress-induced effects of photosystem I: an overview of structural and functional responses. *Photosynth. Res.*, 133, 1-3, Springer, 2017, ISSN:0166-8595, DOI:DOI 10.1007/s11120-017-0383-x, 17-30. ISI IF:3.864

39. **Jekova I, Krasteva V**, Leber R, Schmid R, Twerenbold R, Reichlin T, Müller C, Abächerli R. A real-time quality monitoring system for optimal recording of 12-lead resting ECG. *Biomedical Signal Processing and Control*, 34, Elsevier, 2017, ISSN:1746-8094, DOI:<http://dx.doi.org/10.1016/j.bspc.2017.01.009>, 126-133. ISI IF:1.521
40. **Jereva, D., Fratev, F., Tsakovska, I., Alov, P., Pencheva, T., Pajeva, I.** Molecular Dynamics Simulation of the Human Estrogen Receptor Alpha: Contribution to the Pharmacophore of the Agonists. *Mathematics and Computers in Simulation*, 2017, ISSN:0378-4754, DOI:10.1016/j.matcom.2015.07.003, 124-134. ISI IF:1.124
41. **Kamelia HRISTOVA - PANUSHEVA, Milena KEREMIDARSKA-MARKOVA, George ALTANKOV, Natalia KRASTEVA.** Age-related Changes in Adhesive Phenotype of Bone Marrow-derived Mesenchymal Stem Cells on Extracellular Matrix Proteins. 6, 1, 2017, ISSN:ISSN: 1304-7981, 11-19
42. **Krasteva V, Jekova I**, Abächerli R. Biometric verification by cross-correlation analysis of 12-lead ECG patterns: Ranking of the most reliable peripheral and chest leads. *Journal of Electrocardiology*, Elsevier, 2017, ISSN:0022-0736, DOI:<https://doi.org/10.1016/j.jelectrocard.2017.08.021>, ISI IF:1.514
43. **Krumova, Sashka, Todinova, Svetla, Mavrov, Deyan, Marinov, Pencho, Atanassova, Vassia, Atanassov, Krassimir, Taneva, Stefka G.** Intercriteria analysis of calorimetric data of blood serum proteome. *Biochimica et Biophysica Acta - General Subjects*, 1861, 2017, ISSN:0304-4165, DOI:[dx.doi.org/10.1016/j.bbagen.2016.10.012](http://dx.doi.org/10.1016/j.bbagen.2016.10.012), 409-417. SJR:2.128, ISI IF:5.083
44. **Mancheva, K., Stephanova, D.I., Wolf, W., Kossev, A.** Long-latency intracortical inhibition during unilateral muscle activity. *IFMBE Proceedings 62: CMBEBIH 2017: Proceedings of the International Conference on Medical and Biological Engineering 2017*, Springer Nature Singapore Pte Ltd. 2017, 2017, ISBN:978-981-10-4165-5, ISSN:1680-0737, DOI:10.1007/978-981-10-4166-2, 333-338. SJR:0.15
45. **Mancheva, K., Rollnik, J.D., Wolf, W., Dengler, R., Kossev, A.** Vibration-Induced Kinesthetic Illusions and Corticospinal Excitability Changes. *Journal of Motor Behavior*, 49, 3, Taylor & Francis Group, 2017, ISSN:1940-1027, DOI:10.1080/00222895.2016.1204263, 299-305. ISI IF:1.686
46. **Matveev M, Christov I, Krasteva V, Bortolan G, Simov D, Mudrov N, Jekova I.** Assessment of the stability of morphological ECG features and their potential for person verification/identification. *MATEC Web of Conferences*, 125, 2017, ISSN:2261236X, DOI:10.1051/mateconf/20171250, 1-4. SJR:0.13
47. **Milena Keremidarska-Markova, Kamelia Hristova-Panusheva, Todorka Vladkova, Natalia Krasteva.** Adipose-derived Mesenchymal stem cell behaviour on PDMS substrates with different hardness. *Compt. Rend. Acad. Bulg. Sci.*, 70, 5, 2017, ISSN:2367-5535 (Online), 663-670. ISI IF:0.25
48. **Mladenov I., Hadzhilazova M.** The Many Faces of Elastica. *Forum for Interdisciplinary Mathematics*, 3, Springer, 2017, ISBN:978-3-319-61242-3, 212
49. **Pencheva, T., Angelova, M.** InterCriteria Analysis of Simple Genetic Algorithms Performance. *Advanced Computing in Industrial Mathematics*, Vol. 681 of *Studies in Computational Intelligence*, 2017, ISSN:Print ISBN 978-3-319-49543-9, Online ISBN 978-3-319-49544-6, 147-159. SJR:0.246
50. **Pencheva, T., Angelova, M.** Intuitionistic Fuzzy Logic Implementation to Assess Purposeful Model Parameters Genesis. *Recent Contributions on Intelligent Systems*, Vol. 657 of *Studies in Computational Intelligence*, Springer, 2017, ISBN:978-3-319-41437-9, DOI:10.1007/978-3-319-41438-6, 179-203. SJR:0.246
51. **Popova, A.V.** Spectral characteristics and solubility of  $\beta$ -carotene and zeaxanthin in different solvents. *Compt. Rend. Bulg. Acad. Sci.*, 70, 1, Prof. "Marin Drinov", 2017, ISSN:1310-1331, 53-60. ISI IF:0.206

52. **Ribagin S.**, Chakarov V., **Atanassov K.**. Generalized Net Model of the Scapulohumeral Rhythm. Recent Contributions in Intelligent Systems, 657, Springer, Cham, 2017, ISBN:978-3-319-41437-9, DOI:https://doi.org/10.1007/978-3-319-41438-6\_13, 229-247. SJR:0.187
53. **Ribagin, S., Vassilev, P., Pencheva, T.**, Zadrozny, S.. Intuitionistic fuzzy generalized net model of adolescent idiopathic scoliosis classification and the curve progression probability. Notes on Intuitionistic Fuzzy Sets, 23, 3, 2017, ISSN:Print ISSN 1310-4926, Online ISSN 2367-8283, 88-95
54. **Ribagin, S.**, Chountas, P., **Pencheva, T.**. Generalized Net Model of Muscle Pain Diagnosing. Lecture Notes on Artificial Intelligence, 10333, 2017, ISSN:0302-9743, 269-275. SJR:0.315
55. **Ribagin, S.**, Zaharieva, B.. Generalized Net Model of physical examination of patient with musculoskeletal complaints in kinesitherapy. Issues in IFS and GNs, 13, 2017, ISBN:978-83-61551-21-8, 96-108
56. **Ribagin, S.**. Generalized Net Model of Non-traumatic elbow pain diagnosing. Issues in IFS and GNs, 13, 2017, ISBN:978-83-61551-21-8, 85-95
57. **Ribagin, S.**. Generalized Net Model of Osteoarthritis Diagnosing. Advanced Studies in Contemporary Mathematics, 27, 4, Jangjeon Mathematical Society, 2017, ISSN:1229-3067, 589-598. SJR:0.455
58. **Roeva O., P. Vassilev, P.** Chountas. Application of Topological Operators over Data from InterCriteria Analysis. Lecture Notes in Artificial Intelligence, subseries of Lecture Notes in Computer Science, 10333, Springer, 2017, ISBN:978-3-319-59691-4, DOI:10.1007/978-3-319-59692-1\_19, 215-225. SJR:0.315
59. **Roeva O., S. Fidanova.** InterCriteria Analysis of Relations between Model Parameters Estimates and ACO Performance. Advanced Computing in Industrial Mathematics, Studies in Computational Intelligence SCI, 681, Springer, 2017, ISSN:1860-949X, 175-186. SJR:0.246
60. **Roeva, Olympia, Atanassova, Vassia.** Universal generalized net model for description of metaheuristic algorithms: Verification with the bat algorithm. Advances in Intelligent Systems and Computing, 643, Springer, 2017, ISBN:978-3-319-66826-0, DOI:10.1007/978-3-319-66827-7\_22., 244-255
61. **S. Todinova, R. Komsa-Penkova, S. Krumova, S.G. Taneva, G. Golemanov, G. Georgieva, P. Tonchev, B. Tsankov, L. Beshev, K. Balashev, T.D. Andreeva.** PIA2 polymorphism in glycoprotein IIb/IIIa modulates the morphology and nanomechanics of platelets. Clinical and Applied Thrombosis/Hemostasis, 23, 8, 2017, ISSN:1938-2723, DOI:10.1177/1076029616687847, 951-960. ISI IF:1.973
62. **Stephanova, D.I., Kossev, A.** Temperature effects on accommodative processes in simulated amyotrophic lateral sclerosis in the physiological range.. 16, 3, 2017, ISSN:0219-6352, DOI:10.3233/JIN-170022, 319-333. ISI IF:1.21
63. **Todorova, R.** Todorova R. Peptide-based immunotherapy in sarcoma. Dokladi BAN. Submitted. Accepted 2016. Доклади на Българската академия на науките Comptes rendus de l'Académie bulgare des Sciences Tome 70, No 12, 1689-1700, 2017. Proceedings BAS, 70, 12, BAS, 2017, ISSN:ISSN 1310–1331 (Print) ISSN 2367–5535 (Online), 1689-1700. SJR:0.207, ISI IF:0.251
64. **Tsakovska, I., Pajeva, I., Al Sharif, M., Alov, P., Fioravanzo, E., Kovarich, S., Worth, A.P., Richarz, A.-N., Yang, C., Mostrag-Szlichtyng, A., Cronin, M.T.D.**. Quantitative structure-skin permeability relationships. Toxicology, 387, Elsevier B.V., 2017, ISSN:0300-483X, DOI:10.1016/j.tox.2017.06.008, 27-42. SJR:1.397, ISI IF:3.582
65. **Vassilev, P.** Intuitionistic Fuzzy Sets Generated by Archimedean Metrics and Ultrametrics. Studies in Computational Intelligence, 657, Springer International Publishing Switzerland, 2017, ISBN:978-3-319-41437-9, ISSN:ISSN 1860-949X, e-ISSN 1860-9503, 339-378. SJR:0.187

66. **Vassilev, Peter, Ribagin, Simeon, Todorova, Ludmila.** On an aggregation of expert value assignments using index matrices. Notes on Intuitionistic Fuzzy Sets, 23, 4, 2017, ISSN:Print ISSN 1310-4926, Online ISSN 2367-8283, 75-78
67. **Vassilev, Peter.** On similarly structured intuitionistic fuzzy sets. Notes on Intuitionistic Fuzzy Sets, 23, 2, 2017, ISSN:Print ISSN 1310-4926, Online ISSN 2367-8283, 13-16
68. **Yordanova, V, Momchilova, S, Momchilova, A, Ivanova, A, Maslenkova, L.** Influence of abiotic environmental factors on photosynthetic activity and leaf fatty acid composition of common butterbur (*Petasites hybridus*) from different habitats. Comptes rendus de l'Academie bulgare des Sciences,, 70, 10, 2017, ISSN:2367–5535 (Online), 1399-1404. ISI IF:0.233
69. **Yotsova, E.K., Stefanov, M.A., Dobrikova, A.G., Apostolova, E.L.** Different sensitivities of photosystem II in green algae and cyanobacteria to phenylurea and phenol-type herbicides: effect on electron donor side.. Zeitschrift für Naturforschung C, 72, 7-8, 2017, ISSN:1865-7125, DOI:doi: 10.1515/znc-2016-0089, 315-324. ISI IF:0.835
70. **Zoteva, D., Angelova, N.** Operations and Relations over Reduced Generalized Nets. Issues in IFSs and GNs, 13, 2017, ISBN:978-83-61551-21-8, 119-135
71. **Zoteva, D., Krawczak, M.** Generalized Nets as a Tool for the Modelling of Data Mining Processes. A Survey.. Issues in Intuitionistic Fuzzy Sets and Generalized Nets, 13, 2017, ISBN:978-83-61551-21-8, 1-60
72. **Атанасов, Красимир, Сотирова, Евдокия.** Обобщени мрежи. Академично издателство „Проф. Марин Дринов“, 2017, ISBN:978-954-322-881-2, 172
73. **Вася Атанасова, Северина Семкова.** ИНСТИТУТЪТ ПО БИОФИЗИКА И БИОМЕДИЦИНСКО ИНЖЕНЕРСТВО КЪМ БАН ОТБЕЛЯВА 50-ГОДИШЕН ЮБИЛЕЙ ОТ СЪЗДАВАНЕТО СИ. Списание: Светът на Физиката, Издание на Съюза на физиците в България, книга 3 / 2017, 2017, ISSN:0861–4210, 195-196
74. **Andreev, Nikolay, Sotirova, Evdokia, Atanassov, Krassimir.** Generalized net modelling of the processes of blood donation in centers for transfusion haematology. Proc. of International Conference "Automatics and Informatics'2017", 2017, ISSN:1313-1850, 243-246
75. **Angelova I, Ivanova A, Momchilova S, Momchilova A, Maslenkova L.** FUNCTIONAL CHARACTERISTICS OF PHOTOSYNTHETIC APPARATUS OF LACTUCA TATARICA (ASTERACEAE) – A HALOPHYTE PLANT FROM BLACK SEA COAST. Comptes rendus de l'Academie bulgare des Sciences,, 70, 10, 2017, 1405-1410. ISI IF:0.251
76. **Angelova, V., Voinikov, Y., Andreeva-Gateva, P., Surcheva, S., Vassilev, N., Pencheva, T., Tchekalarova, J.** In vitro and in silico Evaluation of Chromene Based Aroyl Hydrazones as Anticonvulsant Agents. Medicinal Chemistry Research, 26, 9, 2017, ISSN:1054-2523 (Print), 1554-8120 (Online), 1884-1896. ISI IF:1.436
77. **Bakalova, R., Zhelev, Zh., Shibata, S., Nikolova, B., Aoki, I., Higashi, T.** Impressive Suppression of Colon Cancer Growth by Triple Combination SN38/EF24/Melatonin: “Oncogenic” Versus “Onco-Suppressive” Reactive Oxygen Species.. Anticancer res., 37, 10, 2017, ISSN:Print: 0250-7005, Web: 1791-7530, DOI:DOI: 10.21873/anticancer.11973, 5449-5458. ISI IF:1.895
78. **Brezov D., Mladenova C., Mladenov I.** Generalized Euler Angles Viewed as Spherical Coordinates. Geom. Integrability & Quantization, 18, 2017, ISSN:1314-3247, 105-116
79. **Bryaskova, R., Vircheva, S., Miloshev, S., Dishovsky, N., Tzoneva, R.** Design and synthesis of gold loaded micelles based on poly (ethylene glycol) and poly (4-vinyl pyridine) triblock copolymers for biomedical applications. Journal Colloid and Polymer Science, 2017, ISSN:0303-402X (Print) 1435-1536 (Online), DOI:DOI 10.1007/s00396-017-4025-9, ISI IF:1.89

80. Bureva, Veselina, Michalíkova, Alzbeta, Sotirova, Evdokia, Popov, Stanislav, Riecan, Beloslav, **Roeva, Olympia**. Application of the InterCriteria Analysis to the universities rankings system in the Slovak Republic. *Notes on Intuitionistic Fuzzy Sets*, 23, 2, 2017, ISSN:Print ISSN 1310-4926, Online ISSN 2367-8283, 128-140
81. Bureva, Veselina, Traneva, Velichka, Sotirova, Evdokia, **Atanassov, Krassimir**. Index matrices and OLAP-cube. Part 2: An presentation of the OLAP-analysis by index matrices. *Advanced Studies in Contemporary Mathematics*, 27, 4, 2017, ISSN:ISSN 1229-3067, 647-672
82. Chaudhury A., Ward C., Talasaz A., **Ivanov A.G.**, Brophy M., Grodzinski B., Patel R.V., Huner N.P.A., Barron J.L.. Machine vision system for 3D plant phenotyping. *arXiv*, 2017, ISSN:2331-8422, ISI IF:0.698
83. De Tre, Guy, Zadrožny, Slawomir, Sotirov, Sotir, **Atanassov, Krassimir**. Using index matrices for handling multiple scenarios in decision making. *Notes on Intuitionistic Fuzzy Sets*, 23, 2, 2017, ISSN:Print ISSN 1310-4926, Online ISSN 2367-8283, 103-110
84. Dimitrov D., **Roeva O.**. Development of a Generalized Net for Comparison of Different Models Obtained using Metaheuristic Algorithms. *Issues in IFS and GNs*, 13, 2017, ISBN:978-83-61551-21-8, 109-118
85. Donchev V., Mladenova C., **Mladenov I.**. Cayley Map and Higher Dimensional Representations of Rotations. *Geom. Integrability & Quantization*, 18, 2017, ISSN:1314-3247, 150-182
86. Fidanova S., **V. Atanassova, Roeva O.**. Ant Colony Optimization Application to GPS Surveying Problems: InterCriteria Analysis. *Advances in Intelligent Systems and Computing*, 559, Springer, 2017, ISSN:978-3-319-65544-4, 251-264
87. Fidanova S., Luque G., **Roeva O.**, Paprzycki M., Gepner P.. Ant colony optimization algorithm for workforce planning. *Proceedings of the 2017 Federated Conference on Computer Science and Information Systems*, 2017, ISBN:978-1-5090-4414-6, 415-419
88. Gugutkov, D., Awaja, F., Belezmezova, K., **Keremidarska, M., Krasteva, N.**, Kuyrkchiev, S., GallegoFerrer, G., Seker, S., Elcin, A.E., Elcin, Y.M., Altankov, G.. Osteogenic Differentiation of Mesenchymal Stem Cells using Hybrid Nanofibers with Different Configurations and Dimensionality. *Journal of Biomedical Materials Research Part A, Wiley Periodicals, Inc.*, 2017, ISSN:1552-4965, DOI:10.1002/jbm.a.36065, ISI IF:3.26
89. Guncheva, M., **Uzunova, V.**, Ossowicz, P., Idakieva, K., Raynova, Y., Janus, E., **Tzoneva, R.**. Structural destabilization and enhanced cytotoxicity on murine fibroblasts of Helix pomatia $\beta$ -hemocyanin in presence of four cholinum amino acids. *Bulgarian Chemical Communications*, 49, 2017, ISSN:0324-1130, 82-86. ISI IF:0.229
90. I.V. Kosakivska, L.M. Babenko, M.M. Shcherbatiuk, N.P. Vedenicheva, O.A. Sheyko, **L. Maslenkova**. Adaptive strategy of halophytic plants *Polygonum maritimum* and *Euphorbia paralias*. *Dopov. Nac. acad. nauk Ukr.*, 7, 2017, ISSN:1025-6415, DOI:doi: <https://doi.org/10.15407/dopovidi2017.07.098>, 98-106
91. I.V. Kosakivska, L.M. Babenko, M.M. Shcherbatiuk, N.P. Vedenicheva, O.A. Sheyko, A.P. Ivanova, L.E. Angelova, **L.T. Maslenkova**. The Microstructure Organization and Functional Peculiarities of *Euphorbia paralias* L. and *Polygonum maritimum* L. – Halophytic Plants from Dunes of Pomorie Lake (Bulgaria). *JOURNAL OF STRESS PHYSIOLOGY & BIOCHEMISTRY*, 13, 2, 2017, ISSN:1997-0838, 5-18
92. Ignatova, V., Stoyanova, T., **Todorova, L. P.**, Haralanov, L. A 3-year-follow-up study of cognitive performance and facial emotion recognition in persons with relapsing-remitting multiple sclerosis. Comparison with the course of depression and anxiety symptoms. *Multiple Sclerosis Journal*, 23, 8, Olivers Yard, 55 City Road, London EC1Y 1SP, England: Sage Publications LTD., 2017, ISSN:1352-4585, NP7-NP8. ISI IF:4.84
93. Ikonov, N., **Vassilev, P., Ribagin, S.**. Simulation of Generalized Nets by using GNDraw. *Issues in IFS and GNs*, 13, 2017, ISBN:978-83-61551-21-8, 72-84

94. Kalina Danova, Vaclav Motyka, Milka Todorova, Antoaneta Trendafilova, **Sashka Krumova**, Petre Dobrev, **Tonya Andreeva**, Tsvetelina Oreshkova, **Stefka Taneva**, Ljuba Evstatieva. Effect of Cytokinin and Auxin Treatments on Morphogenesis, Terpenoid Biosynthesis, Photosystem Structural Organization, and Endogenous Isoprenoid Cytokinin Profile in *Artemisia alba* Turra In Vitro. *Journal of Plant Growth Regulation*, Springer, 2017, ISSN:0721-7595, DOI:10.1007/s00344-017-9738-y, ISI IF:2.073
95. Kirilka Mladenova, Svetla D. Petrova, **Tonya D. Andreeva**, Veselina Moskova-Doumanova, Tanya Topouzova-Hristova, Yuri Kalvachev, Konstantin Balashev, Shomi S. Bhattacharya, Christina Chakarova, Zdravko Lalchev, Jordan A. Doumanov. Effects of Ca<sup>2+</sup> ions on bestrophin-1 surface films. *Colloids and Surfaces B: Biointerfaces*, 149, 1, 2017, ISSN:0927-7765, DOI:10.1016/j.colsurfb.2016.10.023, 226-232. ISI IF:3.902
96. Kurepin L.V., **Ivanov A.G.**, Zaman M., Pharis R.P., Hurry V., Hüner N.P.A.. Interaction of Glycine Betaine and Plant Hormones: Protection of the Photosynthetic Apparatus during Abiotic Stress.. *Photosynthesis: Structures, Mechanisms, and Applications*, Springer International Publishing AG, 2017, ISBN:ISBN 978-3-319-48873-8, DOI:DOI 10.1007/978-3-319-48873-8\_9, 18, 185-202
97. Labbé, C., **Pencheva, T.**, **Jereva, D.**, Desvillechabrol, D., Becot, J., Villoutreix, B., **Pajeva, I.**, Miteva, M.. AMMOS2: A Web Server for Protein-ligand-water Complexes Refinement via Molecular Mechanics. *Nucleic Acids Research*, 45(W1), 2017, ISSN:0305-1048, EISSN 1362-4962, W350-W355. ISI IF:10.162
98. László Fábíán, Szilvia Krekic, Rudolf Tóth-Boconádi, **Stefka G. Taneva**, Agneta M. Bálint, László Nánai, András Dér. Integrated optical investigation of two light-sensitive proteins. TIM15-16 Physics Conference, AIP Conf. Proc., 1796, American Institute of Physics, 2017, DOI:10.1063/1.4972379, 040001-1-040001-11
99. Mermeklieva, E., **Matveev M.** Electrophysiological methods for study of changes in visual analyser in patients with Diabetes Mellitus. *International Journal BioAutomation*, 21, 1, Prof. Marin Drinov Publ. House of BAS, 2017, ISSN:13141902, DOI:http://www.biomed.bas.bg/bioautomation, 69-103. SJR:0.25
100. Milena Mishonova, Ognyan Dimitrov, Iliyana Sazdova, **Daniela Dimitrova**, Hristo Gagov. Nitric oxide synthases and semicarbazide-sensitive amine oxidase activity in rat liver and kidney. *Comptes rendus de l'Académie bulgare des Sciences*, 70, 11, BAH, 2017, ISSN:1310-1331, 1549-1556. SJR:0.207, ISI IF:0.251
101. Misra, A.N., Singh, R., Misra, M., **Vladkova, R.**, **Dobrikova, A.G.**, **Apostolova, E.L.** Nitric Oxide mediated effects on chloroplasts. *Photosynthesis: Structures, Mechanisms and Applications*. (H.J.M. Hou, M.M. Najafpour, G.F. Moore, S.I. Allakhverdiev, eds.), Chapter 14, Springer International Publishing, New York, 2017, ISBN:978-3-319-48873-8, DOI:10.1007/978-3-319-48873-8\_14, 305-320
102. Noridomi, M., Nakamura, S., Tsuyama, M., Futamura, N., **Vladkova, R.** Opposite domination of cyclic and pseudocyclic electron flows in short-illuminated dark-adapted leaves of angiosperms and gymnosperms. *Photosynthesis Research*, 134, 2, Springer, 2017, ISSN:0166-8595 (Print) 1573-5079 (Online), DOI:10.1007/s11120-017-0419-2, 149-164. ISI IF:3.864
103. Oscar Castillo, Eduardo Ramirez, **Olympia Roeva**. Water cycle algorithm augmentation with fuzzy and intuitionistic fuzzy dynamic adaptation of parameters. *Notes on Intuitionistic Fuzzy Sets*, 23, 1, 2017, ISSN:Print ISSN 1310-4926, Online ISSN 2367-8283, 79-94
104. Picorel, R., Alfonso, M., **Velitchkova, M.** Editorial: Molecular Basis of the Response of Photosynthetic Apparatus to Light and Temperature Stress.. *Front. Plant Sci.*, 8, 2017, ISSN:ISSN=1664-462X, DOI:DOI 10.3389/fpls.2017.00288, 288. ISI IF:4.495
105. Pulov V., **Hadzhilazova M.**, **Mladenov I.** Trajectories of the Plate-Ball Problem. *Geom. Integrability & Quantization*, 18, 2017, ISSN:1314-3247, 203-216



106. Raynova Y., **Todinova S.**, Idakieva K.. Modification with sodium periodate increases the structural stability of molluscan hemocyanins. *Bulgarian Chemical Communications*, 49, Special Issue D, 2017, 87-91. ISI IF:0.24
107. Raynova, Y., **Todinova, S.**, Idakieva, K.. Thermal stability of *Helix aspersa maxima* hemocyanin. *Bulg. Chem. Commun.*, 49, Special Edition L, 2017, 12-16. ISI IF:0.238
108. Raynova, Y., Idakieva, K., Guncheva, M., **Uzunova, V.**, Ossowicz, P., Janus, E., Angelov., I., **Tzoneva, R.**, Hemocyanin from *Rapana thomasi*ana – structure and anti-breast cancer activity in a presence of cholinium amino acids. *Bulgarian Chemical Communications*, 47, *Bulgarian Chemical Communications*, 2017, ISSN:0324-1130, DOI:-, 5-11. ISI IF:0.238
109. Sandor, Jozsef, **Atanassov, Krassimir**. On two arithmetic functions. *Notes on Number Theory and Discrete Mathematics*, 23, 2, 2017, ISSN:1310-5132 (print), 2367-8275 (online), 48-53
110. Shannon, Anthony, Riecan, Beloslav, Sotirova, Evdokia, **Atanassov, Krassimir**, Krawczak, Maciej, Melo-Pinto, Pedro, Parvathi, Rangasamy, Kim, Taekyun. Generalized Net Models of Academic Promotion and Doctoral Candidature. *Recent Contributions in Intelligent Systems* (V.Sgurev, R. Yager, J. Kacprzyk, K. Atanassov, Eds), Springer International Publishing Switzerland, 2017, ISBN:978-3-319-41437-9, DOI:[https://doi.org/10.1007/978-3-319-41438-6\\_15](https://doi.org/10.1007/978-3-319-41438-6_15), 263-277
111. Sotirov, Sotir, **Atanassova, Vassia**, Sotirova, Evdokia, Doukovska, Lyubka, Bureva, Veselina, Tomov, Jivko. Application of the Intuitionistic Fuzzy InterCriteria Analysis Method with Triples to a Neural Network Preprocessing Procedure. *Computational Intelligence and Neuroscience*, 2017, 2017, ISSN:1687-5265, 1687-5273, 1-9. ISI IF:1.215
112. Stefanova-Pavlova, M., Andonov, V., **Stoyanov, T.**, Angelova, M., Cook, G., Klein, B., **Vassilev, P.**, Stefanova, E.. Modeling Telehealth Services with Generalized Nets. *Studies in Computational Intelligence*, 657, Springer International Publishing Switzerland, 2017, ISBN:978-3-319-41437-9, ISSN:1860-949X, e-ISSN 1860-9503, 279-290. SJR:0.187
113. Stoyanova, T., **Lessigiarska, I.**, Mikov, M., **Pajeva, I.**, Yanev, S.. Xanthates as useful probes for testing the active sites of Cytochromes P450 4A11 and 2E1. *Frontiers in Pharmacology*, 8, 2017, ISSN:1663-9812, DOI:10.3389/fphar.2017.00672, Article 67. ISI IF:4.4
114. Szyszka B., **Ivanov A.G.**, Hüner N.P.A.. Adaptation to Low Temperature in a Photoautotrophic Antarctic Psychrophile, *Chlamydomonas* sp. UWO 241. *Photosynthesis: Structures, Mechanisms, and Applications.*, Springer International Publishing AG, 2017, ISBN:ISBN 978-3-319-48873-8, DOI:DOI 10.1007/s11120-017-0383-x, 29, 275-303
115. Tileva M., Krachmarova E., **Taneva S.G.**, **Todinova S.**, Maskos K., Ivanov I., Nacheva G.. Buffer and additive thermofluor screening of wild type human interferon gamma and mutant proteins. *Thermochimica Acta*, 654, 2017, 1-7. ISI IF:2.236
116. Traneva, Velichka, Bureva, Veselina, Sotirova, Evdokia, **Atanassov, Krassimir**. Index matrices and OLAP-cube. Part 1: Application of the index matrices to presentation of operations in OLAP-cube. *Advanced Studies in Contemporary Mathematics*, 27, 2, 2017, ISSN:1229-3067, 253-278. SJR:0.455
117. Valkov, Ivan, **Atanassov, Krassimir**, Doukovska, Lyubka. Generalized nets as a tool for modeling of the urban bus transport. *Flexible Query Answering Systems* (H. Christiansen, H. Jaudoin, P. Chountas, T. Andreassen, H. L. Larsen, Eds.), *Lecture Notes in Artificial Intelligence*, 10333, Springer, Cham, 2017, ISBN:978-3-319-59691-4, ISSN:0302-9743, 276-285. SJR:0.315
118. Vassilev V., Djondjorov P., **Hadzhilazova M.**, **Mladenov I.**. Analytical Representations of Willmore and Generalized Willmore Surfaces.. *Willmore Energy and Willmore Conjecture*, CRC Press, 2017, ISBN:ISBN 9781498744638, 49-83

119. Zaharieva, Bistra, Doukovska, Lyubka, **Ribagin, Simeon**, Michalikova, Alzbeta, Radeva, Irina. InterCriteria Analysis of Behterev's kinesitherapy program. Notes on Intuitionistic Fuzzy Sets, 23, 3, 2017, ISSN:Print ISSN 1310-4926, Online ISSN 2367-8283, 69-80
120. Zaharieva, Bistra, Doukovska, Lyubka, **Ribagin, Simeon**, Radeva, Irina. InterCriteria approach to Behterev's disease analysis. Notes on Intuitionistic Fuzzy Sets, 23, 2, 2017, ISSN:Print ISSN 1310-4926, Online ISSN 2367-8283, 119-127
121. Angelova, V., Valcheva, V., **Pencheva, T.**, Voynikov, Y., Vassilev, N., Mihaylova, R., Momekov, G., Shivachev, B.. Synthesis, Antimycobacterial Activity and Docking Study of 2-aryloyl-[1]benzopyrano[4,3-c]pyrazol-4(1H)-one Derivatives and Related Hydrazone-hydrazones. Bioorganic & Medicinal Chemistry Letters, 27, 13, 2017, ISSN:0960-894X, 2996-3002. ISI IF:2.454
122. Вирчева, С., Бряскова, Р., Милошев, С., **Цонева, Р.**, Дишовски, Н.. Preparation of gold loaded micelles based on Poly(ethylene glycol)-b-Poly(4-vinyl pyridine) copolymers as a tool for biomedical applications. Journal of Chemical Technology and Metallurgy, 52, 3, 2017, ISSN:1314-7471, 425-430
123. Мермеклиева Е., Чернинкова С., Грозева Г., Томова М., Солаков Д., Хараланов Л., Танкова Цв., **Тодорова Л.**, Дамянов В., Асенова Р. Комбиниран електрофизиологичен метод за ранна диагностика на функционални промени в зрителния анализатор при болни с новооткрит захарен диабет. Обща медицина, 19, 4, 2017, ISSN:1311-1817, 3-8