

## Списък на публикациите в списания с IF на хабилитирани и нехабилитирани преподаватели за периода 2012–2017

1. Bechev, B.; Magrisso, M.; Stoeff, S.; Glogovska, P. Possible Application in Pulmonology of Neutrophil Population Functional State Evaluated by Chemiluminescent Method. *Comptes rendus de l'Academie Bulgare des Sciences*. (in press)
2. Hristova-Avakumova, N.; Yoncheva, K.; Nikolova-Mladenova, B.; Traykov, T.; Momekov, G.; Hadjimitova, V. 3-Methoxy Aroylhydrazones – Free Radicals Scavenging, Anticancer and Cytoprotective Potency. *Redox Report* **2017**, 22 (6), 408–417.
3. Abarova, S.; Koynova, R.; Tancheva, L.; Tenchov, B. A Novel DSC Approach for Evaluating Protectant Drugs Efficacy against Dementia. *Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease* **2017**, 1863 (11), 2934–2941.
4. Tenchov, B.; Koynova, R. Cubic Phases in Phosphatidylethanolamine Dispersions: Formation, Stability and Phase Transitions. *Chemistry and Physics of Lipids* **2017**, 208, 65–74.
5. Simeonov, F.; Palov, N.; Ivanova, D.; Kostova-Lefterova, D.; Georgiev, E.; Zagorska, A.; Madzharova, R.; Vassileva, J. Web-Based Platform for Patient Dose Surveys in Diagnostic and Interventional Radiology in Bulgaria: Functionality Testing and Optimisation. *Physica Medica* **2017**, 41 (Supplement C), 87–92.
6. Ellaby, T.; Paz-Borbón, L. O.; Atanasov, I.; Pavan, L.; Rossi, K.; Baletto, F. Melting of Large Pt@MgO(100) Icosahedra. *J. Phys.: Condens. Matter* **2017**, 29 (14), 145402.
7. Tenchov, B.; Abarova, S.; Koynova, R.; Traikov, L.; Tancheva, L. Low-Temperature Exothermic Transitions in Brain Proteome of Mice, Effect of Scopolamine. *Thermochimica Acta* **2017**, 650 (Supplement C), 26–32.
8. Konstantinopoulos, T.; Petkov, P.; Goasduff, A.; Arici, T.; Astier, A.; Atanasova, L.; Axiotis, M.; Bonatsos, D.; Detistov, P.; Dewald, A.; Eller, M. J.; Foteinou, V.; Gargano, A.; Georgiev, G.; Gladnishki, K.; Gottardo, A.; Harissopoulos, S.; Hess, H.; Kaim, S.; Kocheva, D.; Kusoglu, A.; Lagoyannis, A.; Ljungvall, J.; Lutter, R.; Matea, I.; Melon, B.; Mertzimekis, T. J.; Nannini, A.; Petrache, C. M.; Petrovici, A.; Provatas, G.; Reiter, P.; Rocchini, M.; Roccia, S.; Seidlitz, M.; Siebeck, B.; Suzuki, D.; Warr, N.; De Witte, H.; Zerrouki, T. Lifetime Measurements in 100Ru. *Phys. Rev. C* **2017**, 95 (1), 14309.
9. Tenchov, B.; Abarova, S.; Koynova, R.; Traikov, L.; Dragomanova, S.; Tancheva, L. A New Approach for Investigating Neurodegenerative Disorders in Mice Based on DSC. *J. Therm. Anal. Calorim.* **2017**, 127 (1), 483–486.
10. Ralet, D.; Georgiev, G.; Stuchbery, A. E.; Clément, E.; Lemasson, A.; Michelagnoli, C.; Rejmund, M.; Atanasova, L.; Balabanski, D. L.; Bocchi, G.; Carroll, R.; Dewald, A.; Dudouet, J.; Fornal, B.; France, G. de; Franchoo, S.; Fransen, C.; C Müller-Gatermann; Goasduff, A.; Gadea, A.; Jacquot, B.; John, P. R.; Kocheva, D.; Konstantinopoulos, T.; Korichi, A.; A Kusoglu; Lenzi, S. M.; Leoni, S.; Ljungvall, J.; Lozeva, R.; Maj, A.; Navin,

- A.; Perez, R.; Pietralla, N.; Shand, C.; O Stezowski; Yordanov, D. Toward Lifetime and G Factor Measurements of Short-Lived States in the Vicinity of 208 Pb. *Phys. Scr.* **2017**, *92* (5), 54004.
11. Lazarova, T.; Mlynarczyk, K.; Querol, E.; Tenchov, B.; Filipek, S.; Padrós, E. Identification of Specific Effect of Chloride on the Spectral Properties and Structural Stability of Multiple Extracellular Glutamic Acid Mutants of Bacteriorhodopsin. *PLOS ONE* **2016**, *11* (9), e0162952.
  12. Kostova, I.; Valcheva-Traykova, M.; Balkansky, S. Vibrational Characterization and Prooxidant Activity of Newly Synthesized dysprosium(III) Complex. *J. Iran. Chem. Soc.* **2016**, *13* (5), 891–902.
  13. Alexandrov, S. A.; Todorov, R. K.; Jordanova, A. G.; Lalchev, Z. I.; Exerowa, D. R. Foam Films Stabilized with Lysophosphatidylglycerol in the Presence of Na<sup>+</sup> and Ca<sup>2+</sup>. *Bulgarian Chemical Communications* **2016**, *48* (A), 18–22.
  14. Czerwiński, M.; Rząca-Urban, T.; Urban, W.; Bączyk, P.; Sieja, K.; Timár, J.; Nyakó, B. M.; Kuti, I.; Tornyi, T. G.; Atanasova, L.; Blanc, A.; Jentschel, M.; Mutti, P.; Köster, U.; Soldner, T.; de France, G.; Simpson, G. S.; Ur, C. A. Neutron-Proton Multiplets in the Odd-Odd Nucleus 37 90Rb53. *Phys. Rev. C* **2016**, *93* (3), 34318.
  15. Valcheva-Traykova, M.; Bocheva, G. Effect of Ultraviolet Radiation on the Free Radicals Formation in Hypothyroid Rat's Liver. *Bulgarian Chemical Communications* **2016**, *48* (3), 384–388.
  16. Traykova, M.; Bocheva, G. Effect of Pregnancy and Neonatally Induced Diabetes Type 1 on the Oxidative Stress in Rat's Blood Serum. *Comptes rendus de l'Academie Bulgare des Sciences* **2016**, *69* (11), 1503–1510.
  17. Jovtchev, S.; Alexandrov, S.; Hristova-Avakumova, N.; Miteva, S.; Traikov, L.; Gerasimova, D.; Stoeff, S. Erythrocyte Interactions – Comparison of the Aggregation Power of Polymer Molecules Used in Medicine – Not Only Size Does Matter. *Clinical Hemorheology and Microcirculation* **2016**, *64* (4), 845–851.
  18. Varadinova, M. G.; Valcheva-Traykova, M. L. Circadian Misalignment and Alcohol Intake Change the Oxidative Status of Rat Blood Plasma. *Bulg. Chem. Communications* **2016**, *48* (2), 183–187.
  19. Valcheva-Traykova, M. L.; Kostova, I. Effect of the Lanthanide Nitrates on the in Vitro Free Radicals Accumulation in Presence of the Xanthine/Xanthine Oxidase System. *International Journal of Chemistry* **2016**, *5* (1), 1–10.
  20. Benova, E.; Atanasova, M.; Bogdanov, T.; Marinova, P.; Krcma, F.; Mazankova, V.; Dostal, L. Microwave Plasma Torch at a Water Surface. *PMED* **2016**, *6* (1), 59–65.
  21. Kostova, I.; Valcheva-Traykova, M. New samarium(III) Complex of 5-Amino-orotic Acid with Antioxidant Activity. *Appl. Organometal. Chem.* **2015**, *29* (12), 815–824.
  22. Kostova, I.; Valcheva-Traykova, M. Synthesis, Characterization, and Antioxidant Activity of a New Gd(III) Complex. *Journal of Coordination Chemistry* **2015**, *68* (22), 4082–4101.

23. Zagorska, A.; Romanova, K.; Hristova-Popova, J.; Vassileva, J.; Katzarov, K. Eye Lens Exposure to Medical Staff during Endoscopic Retrograde Cholangiopancreatography. *Physica Medica* **2015**, *31* (7), 781–784.
24. Koynova, R.; Tenchov, B. Recent Progress in Liposome Production, Relevance to Drug Delivery and Nanomedicine. *Recent Patents on Nanotechnology* **2015**, *9* (2), 86–93.
25. Georgieva, V.; Hristova-Avakumova, N.; Tzoneva, D.; Todorov, A.; Hadjimitova, V. Alanyl-Glutamine Dipeptide Ameliorates Antioxidant Status and Disease Outcome in Critically Ill Patients without Exhibiting Antioxidant Properties in Vitro. *Comptes rendus de l'Academie Bulgare des Sciences* **2015**, *68* (8), 1007–1014.
26. Czerwiński, M.; Rząca-Urban, T.; Urban, W.; Bączyk, P.; Sieja, K.; Nyakó, B. M.; Timár, J.; Kuti, I.; Tornyi, T. G.; Atanasova, L.; Blanc, A.; Jentschel, M.; Mutti, P.; Köster, U.; Soldner, T.; de France, G.; Simpson, G. S.; Ur, C. A. Neutron-Proton Multiplets in the Nucleus 88Br. *Phys. Rev. C* **2015**, *92* (1), 14328
27. Yoncheva, K.; Kamenova, K.; Perperieva, T.; Hadjimitova, V.; Donchev, P.; Kaloyanov, K.; Konstantinov, S.; Kondeva-Burdina, M.; Tzankova, V.; Petrov, P. Cationic Triblock Copolymer Micelles Enhance Antioxidant Activity, Intracellular Uptake and Cytotoxicity of Curcumin. *International Journal of Pharmaceutics* **2015**, *490* (1), 298–307.
28. Hristova-Popova, J.; Zagorska, A.; Saltirov, I.; Petkova, K.; Vassileva, J. Risk of Radiation Exposure to Medical Staff Involved in Interventional Endourology. *Radiat Prot Dosimetry* **2015**, *165* (1–4), 268–271.
29. Koynova, R.; Tenchov, B.; MacDonald, R. C. Nonlamellar Phases in Cationic Phospholipids, Relevance to Drug and Gene Delivery. *ACS Biomater. Sci. Eng.* **2015**, *1* (3), 130–138.
30. Kusoglu, A.; Stuchbery, A. E.; Georgiev, G.; Brown, B. A.; Goasduff, A.; Atanasova, L.; Balabanski, D. L.; Bostan, M.; Danchev, M.; Detistov, P.; Gladnishki, K. A.; Ljungvall, J.; Matea, I.; Radeck, D.; Sotty, C.; Stefan, I.; Verney, D.; Yordanov, D. T. Magnetism of an Excited Self-Conjugate Nucleus: Precise Measurement of the G Factor of the  $2_{1+}$  State in  $^{24}\text{Mg}$ . *Phys. Rev. Lett.* **2015**, *114* (6), 62501.
31. Hristova-Avakumova, N. G.; Nikolova-Mladenova, B. I.; Hadjimitova, V. A. Evaluation of the in Vitro Antioxidant Effect of Novel 3-Methoxysalicylaldehyde Derived Hydrazones. *Bulg. Chem. Comm.* **2015**, *47* (4), 1053–1058.
32. Vats, P.; Hadjimitova, V.; Yoncheva, K.; Kathuria, A.; Sharma, A.; Chand, K.; Duraisamy, A. J.; Sharma, A. K.; Sharma, A. K.; Saso, L.; Sharma, S. K. Chromenone and Quinolinone Derivatives as Potent Antioxidant Agents. *Med. Chem. Res.* **2014**, *23* (11), 4907–4914.
33. Blasi, N.; Atanasova, L.; Balabanski, D.; Das Gupta, S.; Gladinski, K.; Guerro, L.; Nardelli, S.; Saltarelli, A. E0 Decay from the First  $0_{+}$  State in Dy 156 and Er 160. *Phys. Rev. C* **2014**, *90* (4), 44317.
34. Koynova, R.; Tenchov, B. Enhancing Nucleic Acid Delivery, Insights from the Cationic Phospholipid Carriers. *Current Pharmaceutical Biotechnology* **2014**, *15* (9), 806–813.

35. Atanasov, I.; Ferrando, R.; Johnston, R. L. Structure and Solid Solution Properties of Cu–Ag Nanoalloys. *J. Phys.: Condens. Matter* **2014**, *26* (27), 275301.
36. Benbassat, N.; Yoncheva, K.; Hadjimitova, V.; Hristova, N.; Konstantinov, S.; Lambov, N. Influence of the Extraction Solvent on Antioxidant Activity of *Althaea Officinalis* L. Root Extracts. *Cent. Eur. J. Biol.* **2014**, *9* (2), 182–188.
37. Chantry, R. L.; Atanasov, I.; Siriwatcharapiboon, W.; Khanal, B. P.; Zubarev, E. R.; Horswell, S. L.; Johnston, R. L.; Li, Z. Y. An Atomistic View of the Interfacial Structures of AuRh and AuPd Nanorods. *Nanoscale* **2013**, *5* (16), 7452–7457.
38. Atanasov, I.; Barcaro, G.; Negreiros, F. R.; Fortunelli, A.; Johnston, R. L. Modelling the Metal-on-Top Effect for Pd Clusters on the MgO{100} Substrate. *J. Chem. Phys.* **2013**, *138* (22), 224703.
39. Tenchov, B. G.; MacDonald, R. C.; Lentz, B. R. Fusion Peptides Promote Formation of Bilayer Cubic Phases in Lipid Dispersions. An X-Ray Diffraction Study. *Biophysical Journal* **2013**, *104* (5), 1029–1037.
40. Deleanu, D.; Balabanski, D. L.; Venkova, T.; Bucurescu, D.; Mărginean, N.; Ganioglu, E.; Căta-Danil, G.; Atanasova, L.; Căta-Danil, I.; Detistov, P.; Filipescu, D.; Ghiță, D.; Glodariu, T.; Ivașcu, M.; Mărginean, R.; Mihai, C.; Negret, A.; Pascu, S.; Sava, T.; Stroe, L.; Suliman, G.; Zamfir, N. V. Excited States in 129I. *Phys. Rev. C* **2013**, *87* (1), 14329.
41. Navrátil, Z.; Dosoudilová, L.; Hnilica, J.; Bogdanov, T. Optical Diagnostics of a Surface-Wave-Sustained Neon Plasma by Collisional–radiative Modelling and a Self-Absorption Method. *J. Phys. D: Appl. Phys.* **2013**, *46* (29), 295204.
42. Huo, T.; Barth, R. F.; Yang, W.; Nakkula, R. J.; Koynova, R.; Tenchov, B.; Chaudhury, A. R.; Agius, L.; Boulikas, T.; Elleaume, H.; Lee, R. J. Preparation, Biodistribution and Neurotoxicity of Liposomal Cisplatin Following Convection Enhanced Delivery in Normal and F98 Glioma Bearing Rats. *PLOS ONE* **2012**, *7* (11), e48752.
43. Oktem, Y.; Balabanski, D. L.; Akkus, B.; Susam, L. A.; Atanasova, L.; Beausang, C. W.; Cakirli, R. B.; Casten, R. F.; Danchev, M.; Djongolov, M.; Ganioglu, E.; Gladnishki, K. A.; Goon, J. T.; Hartley, D. J.; Hecht, A. A.; Krücken, R.; Novak, J. R.; Rainovski, G.; Riedinger, L. L.; Venkova, T.; Yigitoglu, I.; Zamfir, N. V.; Zeidan, O. Triaxial Deformation and Nuclear Shape Transition in 192Au. *Phys. Rev. C* **2012**, *86* (5), 54305.
44. Tenchov, B.; Koynova, R. Cubic Phases in Membrane Lipids. *Eur. Biophys. J.* **2012**, *41* (10), 841–850.
45. Tenchov, B.; Sugimoto, Y.; Koynova, R.; Brueggemeier, R. W.; Lee, R. J. Highly Efficient Cationic Ethylphosphatidylcholine siRNA Carrier for GFP Suppression in Modified Breast Cancer Cells. *Anticancer Res* **2012**, *32* (7), 2563–2566.
46. Zhu, B.; Wang, Y.; Atanasov, I. S.; Cheng, D.; Hou, M. Ordering and Segregation in Isolated Au–Pd Icosahedral Nanoclusters and Nanowires and the Consequences of Their Encapsulation inside Carbon Nanotubes. *J. Phys. D: Appl. Phys.* **2012**, *45* (16), 165302.

47. Stanchev, S.; Pencheva, I.; Konstantinov, S.; Obreshkova, D.; Hadjimitova, V. Application of UV-Vis Spectrophotometric and Chemiluminescent Methods for Evaluation of the Antioxidant Action of Curcumin. *J. Serb. Chem. Soc.* **2012**, *77* (8), 1063–1069.

## **Списък на публикациите без IF на хабилитирани и нехабилитирани преподаватели за периода на 2012–2017**

1. Koynova, R.; Tenchov, B. G. Mesomorphic Phases and Phase Transitions in Membranes, Biomechanical Aspects. *Series on Biomechanics* **2017**, *31* (2), 3–19.
2. Kalcheva, N.; Zagorska, A.; Dukov, N.; Bliznakova, K. Analysis of Suitability of Five Statistical Methods Applied for the Validation of a Monte Carlo X-Ray Based Software Packages. In *Proceedings of the Second International Scientific Conference “Intelligent Information Technologies for Industry” (IITI’17)*; Advances in Intelligent Systems and Computing; Springer, Cham, 2017; pp 448–456.
3. Kosturkov, D.; Uzunov, T.; Uzunova, P. Pulse Oximetry as a Diagnostic Tool in Dental Medicine. In *19th International Conference and School on Quantum Electronics: Laser Physics and Applications*; International Society for Optics and Photonics, 2017; Vol. 10226, p 102261C.
4. Иванова, Д.; Загорска, А.; Аврамова-Чолакова, С. Дози На Персонала При Инвазивни Диагностични И Интервенционални Процедури Под Рентгенов Контрол. *Ендоурология и минимално инвазивна хирургия* **2017**, *1* (април).
5. Hristova-Avakumova, N.; Nikolova-Mladenova, B.; Yoncheva, K.; Hadjimitova, V. Novel Hydrazones – Antioxidant Potential and Stabilization via Polysaccharide Particles. *J. Phys.: Conf. Ser.* **2017**, *780* (1), 12004.
6. Varadinova, M. G.; Valcheva-Traykova, M. L.; Boyadjieva, N. I. Effect of Circadian Rhythm Disruption and Alcohol on the Oxidative Stress Level in Rat Brain. *American Journal of Therapeutics* **2016**, *23* (6), e1801–e1805.
7. Zagorska, A.; Tsrunchev, T.; Buchacliiev, Z.; Arsova, P.; Vassileva, J. Development of a New TLD Holder for Eye Lens Dosimetry in Interventional Radiology. In *NMPEC2016*; Sofia, Bulgaria, 2016; pp 18–29.
8. Alexandrov, S. A.; Todorov, R. K.; Exerowa, D. R. The Role of Ca<sup>2+</sup> on Stability of Foam Films from Lysophosphatidyl Choline and Curosurf. In *Proceedings of the 12-th National Medical Physics and Biomedical Engineering Conference NMPEC-2016 with international participation*; Sofia, Bulgaria, 2016.
9. Христова-Авакумова, Н.; Хаджимитова, В. Радикал Улавяща Активност На Новосинтезирани 4-Метокси Производни Хидразони. Протективен Ефект В Липид Съдържащи Моделни Системи in Vitro. In *III национален конгрес по физически науки*; София, 2016.

10. Хаджимитова, В.; Христова-Авакумова, Н.; Атанасова, Л.; Вълчева, Е. Рамонов Анализ На Новосинтезирани Ароилхидразони – Връзка Между Структурата И Антиоксидантната Активнос. In *III национален конгрес по физически науки*; София, 2016.
11. Михайлова, В.; Евтимова, Я.; Атанасова, Л.; Христова-Авакумова, Н.; Панайотов, М.; Хаджимитова, В. Антиоксидантна Активност На Екстракт От Копринени Буби Daizo. In *III национален конгрес по физически науки*; София, 2016.
12. Митев, Д.; Влахов, Е.; Влахов, Т.; Пешев, Д.; Христова-Авакумова, Н.; Хаджимитова, В. Ефект На Нанофилтрацията Върху Антиоксидантните Свойства На Лечебни Екстракти От *Crataegus Monogyna*. In *III национален конгрес по физически науки*; София, 2016.
13. Костурков, Д. Н.; Узунова, П. И.; Узунов, Ц. Т. Пулсова Оксиметрия – Нов Физикален Метод В Денталната Медицина. In *III национален конгрес по физически науки*; София, 2016.
14. Бояджиева, Е.; Златанов, Я.; Ковачев, Т.; Касемияр, Т.; Христова-Авакумова, Н.; Атанасова, Л.; Хаджимитова, В. Спектрални Характеристики И Антиоксидантни Свойства На Български Червени Вина. In *III национален конгрес по физически науки*; София, 2016.
15. Александров, С.; Тодоров, Р.; Лалчев, З.; Ексерова, Д. Инактивация На Терапевтични Алвеоларни Сърфактанти От Лизофосфатидилхолин. In *III национален конгрес по физически науки*; HeronPress: Sofia, Bulgaria, 2016; Vol. S08.22, pp 1–6.
16. Христова-Авакумова, Н.; Николова-Младенова, Б.; Хаджимитова, В.; Йончева, К.; Ламбов, Н. Изследване На Антиоксидантните Свойства На Бром Салицилалдехидбензоилхидразони Енкапсулирани В Хитозан Алгинатни Лекарствени Носител. In *Шести конгрес по фармация с международно участие*; 2016.
17. Атанасова, Л.; Христова-Авакумова, Н. Постерната Сесия „Светлината В Медицината“ – Предиизвикателство Пред Студентите От МУ-София. In *XLIV Национална конференция по въпросите на обучението по физика – Не формалното образование по физика и астрономия*; Ямбол, 2016.
18. Иванова, Д.; Загорска, А.; Василева, Ж.; Костова-Лефтерова, Д.; Симеонов, Ф. История И Развитие На Границите На Дозата За Професионално Облъчване И Население. In *Научни трудове на съюза на учените в Пловдив*; Серия Г. Медицина, фармация и дентална медицина; 2016; Vol. 19.
19. Загорска, А.; Иванова, Д.; Бучаклиев, З.; Василева, Ж. Радиационно- Индуцирана Катаракта: Историческо Развитие На Научните Знания И Нормите За Радиационна Защита. Изследвания В България. In *Научни трудове на съюза на учените в Пловдив*; Серия Г. Медицина, фармация и дентална медицина; 2016; Vol. 19.

20. Nyakó, B. M.; Timár, J.; Csatlós, M.; Dombrádi, Z.; Krasznahorkay, A.; Kuti, I.; Sohler, D.; Tornyi, T. G.; M. Czerwiński; Rząca-Urban, T.; Urban, W.; Bączyk, P.; Atanasova, L.; Balabanski, D. L.; Sieja, K.; Blanc, A.; M. Jentschel; Köster, U.; Mutti, P.; Soldner, T.; France, G. de; Simpson, G. S.; Ur, C. A. Medium-Spin States of the Neutron-Rich 87,89 Br Isotopes: Configurations and Shapes. *J. Phys.: Conf. Ser.* **2016**, 724 (1), 12051.
21. Bechev, B.; Stoeff, S.; Magrisso, M.; Lazarov, V.; Trifonova, N.; Dimitrova, D. Chemiluminescent Data on the Functional State of Polymorphonuclear Leukocytes (PMNs) from Blood and Pleural Effusions, in Cases of Inflammation and Malignancies. *Series on Biomechanics* **2016**, 30 (1), 43–47.
22. Загорска, А.; Бучаклиев, З.; Близнакова, К. Симулиране На Разсеяното Лъчение В Интервенционалната Рентгенология И Калибриране На Индивидуални Дозиметри За Очна Леща. In *Физиката в опазването на човека и околната среда*; Тенчов, Б., Трайков, Л., Eds.; Светлината в медицината; ТЕМТО, 2015; pp 347–364.
23. Zagorska, A.; Bliznakova, K.; Buchakliev, Z. Towards the Estimation of the Scattered Energy Spectra Reaching the Head of the Medical Staff during Interventional Radiology: A Monte Carlo Simulation Study. *J. Phys.: Conf. Ser.* **2015**, 637 (1), 12036.
24. Valcheva-Traykova, M. L.; Traykov, T. T.; Bocheva, G. S. Interaction Of Propylthiouracil With Model Systems Generating A Superoxide Radical. *Journal of Biomedical and Clinical Research* **2015**, 7 (2), 93–98.
25. Stoeff, S.; Jovtchev, S.; Galabova, T.; Bechev, B.; Trifonova, N.; Buteva, I.; Dikov, I.; Vretenarska, M.; Mladenova, A. Initial Attempt to Estimate Rheological and Haemostatic Factors in Hypertension from among the Bulgarian Population. *Series on Biomechanics* **2015**, 29 (4), 50–54.
26. Kusoglu, A.; Stuchbery, A. E.; Georgiev, G.; Goasduff, A.; Atanasova, L.; Balabanski, D. L.; Bostan, M.; Danchev, M.; P Detistov; Gladnishki, K.; Ljungvall, J.; Matea, I.; Radeck, D.; Sotty, C.; Stefan, I.; Verney, D.; Yordanov, D. T. Nuclear G -Factor Measurement with Time-Dependent Recoil in Vacuum in Radioactive-Beam Geometry. *J. Phys.: Conf. Ser.* **2015**, 590 (1), 12041.
27. Dilkovska-Petrova, T.; Zagorska, A.; Bliznakova, K. The Role of Cloud Services in Research Projects (Case Study) Big Data. In *Knowledge and Control Systems Engineering - BdKCSE'2015*; Andreev, R. D., Ed.; Ist sai Press, 2015; pp 75–88.
28. Valcheva-Traykova, M.; Saso, L.; Kostova, I. Involvement of Lanthanides in the Free Radicals Homeostasis. *Current Topics in Medicinal Chemistry* **2014**, 14 (22), 2508–2519.
29. Chantry, R. L.; Atanasov, I.; Horswell, S. L.; Li, Z. Y.; Johnston, R. L. Interfacial Structures and Bonding in Metal-Coated Gold Nanorods. *Struct. Bond.* **2014**, 162, 67–90.
30. Стоев, С. В. Проучвания На Биофизични, Хемореологични И Клинико-Лабораторни Показатели При Артериална Хипертония. Дисертация, Медицински Университет - София: София, 2014.

31. Uzunov, T.; Uzunova, P.; Uzunov, T.; Grozdanova, R. Resection of the Tooth Apex with Diode Laser. *Acta Medica Bulgarica* **2014**, *41* (1), 45–49.
32. Iliev, M.; Kotzev, G.; Djoumaliski, S.; Exner, G.; Licheva, M.; Antonova, B.; Karashanova, D. Crystallization, Structure and Morphology of Isotactic-Poly(propylene)/carbon Nanoparticle Composites. *Nanoscience&Nanotechnology* **2014**, *14*, 117–119.
33. Коунова, Р.; Tenchov, B. Recent Patents on Nonlamellar Liquid Crystalline Lipid Phases in Drug Delivery. *Recent Patents on Drug Delivery & Formulation* **2013**, *7* (3), 165–173.
34. Христова-Авакумова, Н. Влияние На Повърхностните Физико-Химични Характеристики Върху Поведението И Разпределението На Наночастици in Vivo. In *Втори национален конгрес по физически науки*; Херон Прес: София, 2013.
35. Христова-Авакумова, Н.; Хаджимитова, В.; Трайков, Т. Антиоксидантни Свойства На Новосинтезирани Хелатори На Желязо. In *Втори национален конгрес по физически науки*; Херон Прес: София, 2013.
36. Uzunova, P.; Deneva, M.; Uzunov, T.; Rabadzhiyska, S.; Kisov, H.; Kaymakanova, N.; Dinkov, E.; Nanchev, M. Penetration of IR Laser Radiation in Human Teeth: Angular Distribution of Light and Coefficients of Absorption and Scattering. *Acta Medica Bulgarica* **2013**, *40* (1), 65–75.
37. Коунова, Р.; Tenchov, B. G. Transitions between Lamellar and Non-Lamellar Phases in Membrane Lipids and Their Physiological Roles. *OA Biochemistry* **2013**, *1* (1), 9.
38. Uzunova, P.; Rabadgiiska, S.; Uzunov, T.; Kisov, H.; Kaimakanova, N.; Deneva, M.; Dinkov, E.; Nanchev, M. Study the Penetration of IR Laser Radiation in Human Teeth: Determination of the Absorbed and Scattered Parts. In *17th International School on Quantum Electronics: Laser Physics and Applications*; International Society for Optics and Photonics, 2013; Vol. 8770, p 87701A.
39. Miteva, S.; Alexandrov, S. A.; Hristova-Avakumova, N.; Stoeff, S.; Traikov, L.; Gerasimova, D.; Jovtchev, S. Hemorheology in Biophysics Education for Students in Medicine. In *Scientific Reports of the Union of Scientists in Bulgaria*; Научни трудове на СУБ-Пловдив; Plovdiv, 2013; Vol. 16, pp 246–252.
40. Коунова, Р.; Tenchov, B. Phase Transitions and Phase Behavior of Lipids. *Encyclopedia of Biophysics*; Springer Berlin Heidelberg, 2013; pp 1841–1854.
41. Biljali, S.; Hadjimitova, V. A.; Topashka-Ancheva, M. N.; Momekova, D. B.; Traykov, T. T.; Karaivanova, M. H. Antioxidant and Antiradical Properties of Esculin, and Its Effect in A Model of Epirubicin-Induced Bone Marrow Toxicity. *Folia Medica* **2012**, *54* (3), 42–49.
42. Traykova, M.; Astasidi, L.; Traykov, T.; Boyadjieva, N. I. In Vivo Antioxidant Effect of Trolox in the Brain of Rats Exposed to Diurnal Rhythm Disturbance. *Trakia Journal of Sciences* **2012**, *10* (1), 336–339.
43. Traykov, T.; Traykova, M.; Astasidi, L.; Boyadjieva, N. I. Trolox Decreases the Oxidative Damage of the Blood Plasma in Rat Models of Diurnal Rhythm Disturbance and Prolonged Ethanol Intake. *Trakia Journal of Sciences* **2012**, *10* (1), 326–330.



44. Stoeff, S.; Jovtchev, S.; Trifonova, N. Whole Blood Viscosity Assessment in Arterial Hypertension: A Mathematical Approach. *Series on Biomechanics* **2012**, 27 (1–2), 65–68.
45. Mihov, D.; Antonova, B. Using Infrared Thermography in Medicine. *Trakia Journal of Sciences* **2012**, 10 (2), 88–94.
46. Memedi, B.; Traykova, M.; Boyadjieva, N. I. Effects of Plant Oil and Animal Fat on the Free-Radicals Formation in the Blood Plasma and Liver of Juvenile Rat Exposed to a Fat-Rich Diet. *Trakia Journal of Sciences* **2012**, 10 (1), 321–325.
47. Kisyov, S.; Lalkovski, S.; Mărginean, N.; Bucurescu, D.; Atanasova, L.; Balabanski, D.; Căta-Danil, G.; Căta-Danil, I.; D Deleanu; Detistov, P.; Filipescu, D.; Ghiță, D.; Glodariu, T.; Mărginean, R.; Mihai, C.; Negret, A.; Pascu, S.; Sava, T.; L Stroe; Suliman, G.; Zamfir, N. V.; Zhekova, M. Fast-Timing Measurements in 95, 96 Mo. *J. Phys.: Conf. Ser.* **2012**, 366 (1), 12027.
48. Ivanov, K.; Bogdanov, T.; Benova, E. The Role of Plasma Radius as a Condition for Sustaining a Coaxial Discharge at Various Wave Modes. *J. Phys.: Conf. Ser.* **2012**, 356 (1), 12045.
49. Dimitrova, M.; Ivanova, P.; Kotseva, I.; Popov, T. K.; Benova, E.; Bogdanov, T.; Stöckel, J.; Dejarnac, R. Evaluation of the Plasma Parameters in COMPASS Tokamak Divertor Area. *J. Phys.: Conf. Ser.* **2012**, 356 (1), 12007.
50. Astasidi, L.; Traykova, M.; Traykov, T.; Boyadjieva, N. I. In Vivo Antioxidant Effect of Trolox in Rat Brain, in Model of Prolonged Ethanol Intake. *Trakia Journal of Sciences* **2012**, 10 (1), 331–335.
51. Alexandrov, S.; Hristova-Avakumova, N.; Miteva, S.; Stoeff, S.; Traikov, L.; Gerasimova, D.; Jovtchev, S. Factors Influencing Erythrocyte Aggregation – an Investigation during Routine Student’s Practice. *Series on Biomechanics* **2012**, 27 (1–2), 30–33.

### **Списък на всички публикации на хабилитирани и нехабилитирани преподаватели за периода 2012–2017**

1. Bechev, B.; Magrisso, M.; Stoeff, S.; Glogovska, P. Possible Application in Pulmonology of Neutrophil Population Functional State Evaluated by Chemiluminescent Method. *Comptes rendus de l’Academie Bulgare des Sciences*. (in press)
2. Hristova-Avakumova, N.; Yoncheva, K.; Nikolova-Mladenova, B.; Traykov, T.; Momekov, G.; Hadjimitova, V. 3-Methoxy Aroylhydrazones – Free Radicals Scavenging, Anticancer and Cytoprotective Potency. *Redox Report* **2017**, 22 (6), 408–417.
3. Abarova, S.; Koynova, R.; Tancheva, L.; Tenchov, B. A Novel DSC Approach for Evaluating Protectant Drugs Efficacy against Dementia. *Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease* **2017**, 1863 (11), 2934–2941.

4. Tenchov, B.; Koynova, R. Cubic Phases in Phosphatidylethanolamine Dispersions: Formation, Stability and Phase Transitions. *Chemistry and Physics of Lipids* **2017**, *208*, 65–74.
5. Koynova, R.; Tenchov, B. G. Mesomorphic Phases and Phase Transitions in Membranes, Biomechanical Aspects. *Series on Biomechanics* **2017**, *31* (2), 3–19.
6. Kalcheva, N.; Zagorska, A.; Dukov, N.; Bliznakova, K. Analysis of Suitability of Five Statistical Methods Applied for the Validation of a Monte Carlo X-Ray Based Software Packages. In *Proceedings of the Second International Scientific Conference “Intelligent Information Technologies for Industry” (IITI’17)*; Advances in Intelligent Systems and Computing; Springer, Cham, 2017; pp 448–456.
7. Simeonov, F.; Palov, N.; Ivanova, D.; Kostova-Lefterova, D.; Georgiev, E.; Zagorska, A.; Madzharova, R.; Vassileva, J. Web-Based Platform for Patient Dose Surveys in Diagnostic and Interventional Radiology in Bulgaria: Functionality Testing and Optimisation. *Physica Medica* **2017**, *41* (Supplement C), 87–92.
8. Ellaby, T.; Paz-Borbón, L. O.; Atanasov, I.; Pavan, L.; Rossi, K.; Baletto, F. Melting of Large Pt@MgO(100) Icosahedra. *J. Phys.: Condens. Matter* **2017**, *29* (14), 145402.
9. Tenchov, B.; Abarova, S.; Koynova, R.; Traikov, L.; Tancheva, L. Low-Temperature Exothermic Transitions in Brain Proteome of Mice, Effect of Scopolamine. *Thermochimica Acta* **2017**, *650* (Supplement C), 26–32.
10. Konstantinopoulos, T.; Petkov, P.; Goasduff, A.; Arici, T.; Astier, A.; Atanasova, L.; Axiotis, M.; Bonatsos, D.; Detistov, P.; Dewald, A.; Eller, M. J.; Foteinou, V.; Gargano, A.; Georgiev, G.; Gladnishki, K.; Gottardo, A.; Harissopulos, S.; Hess, H.; Kaim, S.; Kocheva, D.; Kusoglu, A.; Lagoyannis, A.; Ljungvall, J.; Lutter, R.; Matea, I.; Melon, B.; Mertzimekis, T. J.; Nannini, A.; Petrache, C. M.; Petrovici, A.; Provatas, G.; Reiter, P.; Rocchini, M.; Rocchia, S.; Seidlitz, M.; Siebeck, B.; Suzuki, D.; Warr, N.; De Witte, H.; Zerrouki, T. Lifetime Measurements in 100Ru. *Phys. Rev. C* **2017**, *95* (1), 14309.
11. Kosturkov, D.; Uzunov, T.; Uzunova, P. Pulse Oximetry as a Diagnostic Tool in Dental Medicine. In *19th International Conference and School on Quantum Electronics: Laser Physics and Applications*; International Society for Optics and Photonics, 2017; Vol. 10226, p 102261C.
12. Tenchov, B.; Abarova, S.; Koynova, R.; Traikov, L.; Dragomanova, S.; Tancheva, L. A New Approach for Investigating Neurodegenerative Disorders in Mice Based on DSC. *J. Therm. Anal. Calorim.* **2017**, *127* (1), 483–486.
13. Иванова, Д.; Загорска, А.; Аврамова-Чолакова, С. Дози На Персонала При Инвазивни Диагностични И Интервенционални Процедури Под Рентгенов Контрол. *Ендоурология и минимално инвазивна хирургия* **2017**, *1* (април).
14. Ralet, D.; Georgiev, G.; Stuchbery, A. E.; Clément, E.; Lemasson, A.; Michelagnoli, C.; Rejmund, M.; Atanasova, L.; Balabanski, D. L.; Bocchi, G.; Carroll, R.; Dewald, A.; Dudouet, J.; Fornal, B.; France, G. de; Franchoo, S.; Fransen, C.; C Müller-Gatermann;

- Goasduff, A.; Gadea, A.; Jacquot, B.; John, P. R.; Kocheva, D.; Konstantinopoulos, T.; Korichi, A.; A Kusoglu; Lenzi, S. M.; Leoni, S.; Ljungvall, J.; Lozeva, R.; Maj, A.; Navin, A.; Perez, R.; Pietralla, N.; Shand, C.; O Stezowski; Yordanov, D. Toward Lifetime and G Factor Measurements of Short-Lived States in the Vicinity of 208 Pb. *Phys. Scr.* **2017**, 92 (5), 54004.
15. Hristova-Avakumova, N.; Nikolova-Mladenova, B.; Yoncheva, K.; Hadjimitova, V. Novel Hydrazones – Antioxidant Potential and Stabilization via Polysaccharide Particles. *J. Phys.: Conf. Ser.* **2017**, 780 (1), 12004.
16. Varadinova, M. G.; Valcheva-Traykova, M. L.; Boyadjieva, N. I. Effect of Circadian Rhythm Disruption and Alcohol on the Oxidative Stress Level in Rat Brain. *American Journal of Therapeutics* **2016**, 23 (6), e1801–e1805.
17. Zagorska, A.; Tsrunchev, T.; Buchacliev, Z.; Arsova, P.; Vassileva, J. Development of a New TLD Holder for Eye Lens Dosimetry in Interventional Radiology. In *NMPEC2016*; Sofia, Bulgaria, 2016; pp 18–29.
18. Alexandrov, S. A.; Todorov, R. K.; Exerowa, D. R. The Role of Ca<sup>2+</sup> on Stability of Foam Films from Lysophosphatidyl Choline and Curosurf. In *Proceedings of the 12-th National Medical Physics and Biomedical Engineering Conference NMPEC-2016 with international participation*; Sofia, Bulgaria, 2016.
19. Христова-Авакумова, Н.; Хаджимитова, В. Радикал Улавяща Активност На Новосинтезирани 4-Метокси Производни Хидразони. Протективен Ефект В Липид Съдържащи Моделни Системи in Vitro. In *III национален конгрес по физически науки*; София, 2016.
20. Хаджимитова, В.; Христова-Авакумова, Н.; Атанасова, Л.; Вълчева, Е. Рамонов Анализ На Новосинтезирани Ароилхидразони – Връзка Между Структурата И Антиоксидантната Активнос. In *III национален конгрес по физически науки*; София, 2016.
21. Михайлова, В.; Евтимова, Я.; Атанасова, Л.; Христова-Авакумова, Н.; Панайотов, М.; Хаджимитова, В. Антиоксидантна Активност На Екстракт От Копринени Буби Daizo. In *III национален конгрес по физически науки*; София, 2016.
22. Митев, Д.; Влахов, Е.; Влахов, Т.; Пешев, Д.; Христова-Авакумова, Н.; Хаджимитова, В. Ефект На Нанофилтрацията Върху Антиоксидантните Свойства На Лечебни Екстракти От Crataegus Monogyna. In *III национален конгрес по физически науки*; София, 2016.
23. Костурков, Д. Н.; Узунова, П. И.; Узунов, Ц. Т. Пулсова Оксиметрия – Нов Физикален Метод В Денталната Медицина. In *III национален конгрес по физически науки*; София, 2016.
24. Бояджиева, Е.; Златанов, Я.; Ковачев, Т.; Касемияр, Т.; Христова-Авакумова, Н.; Атанасова, Л.; Хаджимитова, В. Спектрални Характеристики И Антиоксидантни

- Свойства На Български Червени Вина. In *III национален конгрес по физически науки*; София, 2016.
25. Александров, С.; Тодоров, Р.; Лалчев, З.; Ексерова, Д. Инактивация На Терапевтични Алвеоларни Сърфактанти От Лизофосфатидилхолин. In *III национален конгрес по физически науки*; HeronPress: Sofia, Bulgaria, 2016; Vol. S08.22, pp 1–6.
26. Христова-Авакумова, Н.; Николова-Младенова, Б.; Хаджимитова, В.; Йончева, К.; Ламбов, Н. Изследване На Антиоксидантните Свойства На Бром Салицилалдехидбензоилхидразони Енкапсулирани В Хитозан Алгинатни Лекарствени Носител. In *Шести конгрес по фармация с международно участие*; 2016.
27. Lazarova, T.; Mlynarczyk, K.; Querol, E.; Tenchov, B.; Filipek, S.; Padrós, E. Identification of Specific Effect of Chloride on the Spectral Properties and Structural Stability of Multiple Extracellular Glutamic Acid Mutants of Bacteriorhodopsin. *PLOS ONE* **2016**, *11* (9), e0162952.
28. Kostova, I.; Valcheva-Traykova, M.; Balkansky, S. Vibrational Characterization and Prooxidant Activity of Newly Synthesized dysprosium(III) Complex. *J. Iran. Chem. Soc.* **2016**, *13* (5), 891–902.
29. Alexandrov, S. A.; Todorov, R. K.; Jordanova, A. G.; Lalchev, Z. I.; Ekerowa, D. R. Foam Films Stabilized with Lysophosphatidylglycerol in the Presence of Na<sup>+</sup> and Ca<sup>2+</sup>. *Bulgarian Chemical Communications* **2016**, *48* (A), 18–22.
30. Атанасова, Л.; Христова-Авакумова, Н. Постерната Сесия „Светлината В Медицината“ – Предиизвикателство Пред Студентите От МУ-София. In *XLIV Национална конференция по въпросите на обучението по физика – Не формалното образование по физика и астрономия*; Ямбол, 2016.
31. Czerwiński, M.; Rząca-Urban, T.; Urban, W.; Wączyk, P.; Sieja, K.; Timár, J.; Nyakó, B. M.; Kuti, I.; Tornyi, T. G.; Atanasova, L.; Blanc, A.; Jentschel, M.; Mutti, P.; Köster, U.; Soldner, T.; de France, G.; Simpson, G. S.; Ur, C. A. Neutron-Proton Multiplets in the Odd-Odd Nucleus <sup>37</sup>90Rb53. *Phys. Rev. C* **2016**, *93* (3), 34318.
32. Valcheva-Traykova, M.; Bocheva, G. Effect of Ultraviolet Radiation on the Free Radicals Formation in Hypothyroid Rat’s Liver. *Bulgarian Chemical Communications* **2016**, *48* (3), 384–388.
33. Traykova, M.; Bocheva, G. Effect of Pregnancy and Neonatally Induced Diabetes Type 1 on the Oxidative Stress in Rat’s Blood Serum. *Comptes rendus de l’Academie Bulgare des Sciences* **2016**, *69* (11), 1503–1510.
34. Jovtchev, S.; Alexandrov, S.; Hristova-Avakumova, N.; Miteva, S.; Traikov, L.; Gerasimova, D.; Stoeff, S. Erythrocyte Interactions – Comparison of the Aggregation Power of Polymer Molecules Used in Medicine – Not Only Size Does Matter. *Clinical Hemorheology and Microcirculation* **2016**, *64* (4), 845–851.

35. Иванова, Д.; Загорска, А.; Василева, Ж.; Костова-Лефтерова, Д.; Симеонов, Ф. История И Развитие На Границите На Дозата За Професионално Облъчване И Население. In *Научни трудове на съюза на учените в Пловдив*; Серия Г. Медицина, фармация и дентална медицина; 2016; Vol. 19.
36. Загорска, А.; Иванова, Д.; Бучаклиев, З.; Василева, Ж. Радиационно- Индуцирана Катаракта: Историческо Развитие На Научните Знания И Нормите За Радиационна Защита. Изследвания В България. In *Научни трудове на съюза на учените в Пловдив*; Серия Г. Медицина, фармация и дентална медицина; 2016; Vol. 19.
37. Varadinova, M. G.; Valcheva-Traykova, M. L. Circadian Misalignment and Alcohol Intake Change the Oxidative Status of Rat Blood Plasma. *Bulg. Chem. Communications* **2016**, 48 (2), 183–187.
38. Valcheva-Traykova, M. L.; Kostova, I. Effect of the Lanthanide Nitrates on the in Vitro Free Radicals Accumulation in Presence of the Xanthine/Xanthine Oxidase System. *International Journal of Chemistry* **2016**, 5 (1), 1–10.
39. Nyakó, B. M.; Timár, J.; Csatlós, M.; Dombrádi, Z.; Krasznahorkay, A.; Kuti, I.; Sohler, D.; Tornyai, T. G.; M. Czerwiński; Rząca-Urban, T.; Urban, W.; Bączyk, P.; Atanasova, L.; Balabanski, D. L.; Sieja, K.; Blanc, A.; M. Jentschel; Köster, U.; Mutti, P.; Soldner, T.; France, G. de; Simpson, G. S.; Ur, C. A. Medium-Spin States of the Neutron-Rich 87,89 Br Isotopes: Configurations and Shapes. *J. Phys.: Conf. Ser.* **2016**, 724 (1), 12051.
40. Benova, E.; Atanasova, M.; Bogdanov, T.; Marinova, P.; Krcma, F.; Mazankova, V.; Dostal, L. Microwave Plasma Torch at a Water Surface. *PMED* **2016**, 6 (1), 59–65.
41. Bechev, B.; Stoeff, S.; Magrisso, M.; Lazarov, V.; Trifonova, N.; Dimitrova, D. Chemiluminescent Data on the Functional State of Polymorphonuclear Leukocytes (PMNs) from Blood and Pleural Effusions, in Cases of Inflammation and Malignancies. *Series on Biomechanics* **2016**, 30 (1), 43–47.
42. Kostova, I.; Valcheva-Traykova, M. New samarium(III) Complex of 5-Aminoorotic Acid with Antioxidant Activity. *Appl. Organometal. Chem.* **2015**, 29 (12), 815–824.
43. Kostova, I.; Valcheva-Traykova, M. Synthesis, Characterization, and Antioxidant Activity of a New Gd(III) Complex. *Journal of Coordination Chemistry* **2015**, 68 (22), 4082–4101.
44. Zagorska, A.; Romanova, K.; Hristova-Popova, J.; Vassileva, J.; Katarov, K. Eye Lens Exposure to Medical Staff during Endoscopic Retrograde Cholangiopancreatography. *Physica Medica* **2015**, 31 (7), 781–784.
45. Koynova, R.; Tenchov, B. Recent Progress in Liposome Production, Relevance to Drug Delivery and Nanomedicine. *Recent Patents on Nanotechnology* **2015**, 9 (2), 86–93.
46. Georgieva, V.; Hristova-Avakumova, N.; Tzoneva, D.; Todorov, A.; Hadjimitova, V. Alanine-Glutamine Dipeptide Ameliorates Antioxidant Status and Disease Outcome in Critically Ill Patients without Exhibiting Antioxidant Properties in Vitro. *Comptes rendus de l'Academie Bulgare des Sciences* **2015**, 68 (8), 1007–1014.

47. Czerwiński, M.; Rząca-Urban, T.; Urban, W.; Bączyk, P.; Sieja, K.; Nyakó, B. M.; Timár, J.; Kuti, I.; Tornyi, T. G.; Atanasova, L.; Blanc, A.; Jentschel, M.; Mutti, P.; Köster, U.; Soldner, T.; de France, G.; Simpson, G. S.; Ur, C. A. Neutron-Proton Multiplets in the Nucleus 88Br. *Phys. Rev. C* **2015**, 92 (1), 14328.
48. Yoncheva, K.; Kamenova, K.; Perperieva, T.; Hadjimitova, V.; Donchev, P.; Kaloyanov, K.; Konstantinov, S.; Kondeva-Burdina, M.; Tzankova, V.; Petrov, P. Cationic Triblock Copolymer Micelles Enhance Antioxidant Activity, Intracellular Uptake and Cytotoxicity of Curcumin. *International Journal of Pharmaceutics* **2015**, 490 (1), 298–307.
49. Hristova-Popova, J.; Zagorska, A.; Saltirov, I.; Petkova, K.; Vassileva, J. Risk of Radiation Exposure to Medical Staff Involved in Interventional Endourology. *Radiat Prot Dosimetry* **2015**, 165 (1–4), 268–271.
50. Koynova, R.; Tenchov, B.; MacDonald, R. C. Nonlamellar Phases in Cationic Phospholipids, Relevance to Drug and Gene Delivery. *ACS Biomater. Sci. Eng.* **2015**, 1 (3), 130–138.
51. Kusoglu, A.; Stuchbery, A. E.; Georgiev, G.; Brown, B. A.; Goasduff, A.; Atanasova, L.; Balabanski, D. L.; Bostan, M.; Danchev, M.; Detistov, P.; Gladnishki, K. A.; Ljungvall, J.; Matea, I.; Radeck, D.; Sotty, C.; Stefan, I.; Verney, D.; Yordanov, D. T. Magnetism of an Excited Self-Conjugate Nucleus: Precise Measurement of the G Factor of the  $2_{-1}^{+}$  State in  $^{24}\text{Mg}$ . *Phys. Rev. Lett.* **2015**, 114 (6), 62501.
52. Загорска, А.; Бучаклиев, З.; Близнакова, К. Симулиране На Разсеяното Лъчение В Интервенционалната Рентгенология И Калибриране На Индивидуални Дозиметри За Очна Леща. In *Физиката в опазването на човека и околната среда*; Тенчов, Б., Трайков, Л., Eds.; Светлината в медицината; ТЕМТО, 2015; pp 347–364.
53. Zagorska, A.; Bliznakova, K.; Buchakliev, Z. Towards the Estimation of the Scattered Energy Spectra Reaching the Head of the Medical Staff during Interventional Radiology: A Monte Carlo Simulation Study. *J. Phys.: Conf. Ser.* **2015**, 637 (1), 12036.
54. Valcheva-Traykova, M. L.; Traykov, T. T.; Bocheva, G. S. Interaction Of Propylthiouracil With Model Systems Generating A Superoxide Radical. *Journal of Biomedical and Clinical Research* **2015**, 7 (2), 93–98.
55. Stoeff, S.; Jovtchev, S.; Galabova, T.; Bechev, B.; Trifonova, N.; Buteva, I.; Dikov, I.; Vretenarska, M.; Mladenova, A. Initial Attempt to Estimate Rheological and Haemostatic Factors in Hypertension from among the Bulgarian Population. *Series on Biomechanics* **2015**, 29 (4), 50–54.
56. Kusoglu, A.; Stuchbery, A. E.; Georgiev, G.; Goasduff, A.; Atanasova, L.; Balabanski, D. L.; Bostan, M.; Danchev, M.; P Detistov; Gladnishki, K.; Ljungvall, J.; Matea, I.; Radeck, D.; Sotty, C.; Stefan, I.; Verney, D.; Yordanov, D. T. Nuclear G -Factor Measurement with Time-Dependent Recoil in Vacuum in Radioactive-Beam Geometry. *J. Phys.: Conf. Ser.* **2015**, 590 (1), 12041.

57. Hristova-Avakumova, N. G.; Nikolova-Mladenova, B. I.; Hadjimitova, V. A. Evaluation of the in Vitro Antioxidant Effect of Novel 3-Methoxysalicylaldehyde Derived Hydrazones. *Bulg. Chem. Comm.* **2015**, 47 (4), 1053–1058.
58. Dilkovska-Petrova, T.; Zagorska, A.; Bliznakova, K. The Role of Cloud Services in Research Projects (Case Study) Big Data. In *Knowledge and Control Systems Engineering - BdKCSE'2015*; Andreev, R. D., Ed.; Ist sai Press, 2015; pp 75–88.
59. Vats, P.; Hadjimitova, V.; Yoncheva, K.; Kathuria, A.; Sharma, A.; Chand, K.; Duraisamy, A. J.; Sharma, A. K.; Sharma, A. K.; Saso, L.; Sharma, S. K. Chromenone and Quinolinone Derivatives as Potent Antioxidant Agents. *Med. Chem. Res.* **2014**, 23 (11), 4907–4914.
60. Valcheva-Traykova, M.; Saso, L.; Kostova, I. Involvement of Lanthanides in the Free Radicals Homeostasis. *Current Topics in Medicinal Chemistry* **2014**, 14 (22), 2508–2519.
61. Blasi, N.; Atanasova, L.; Balabanski, D.; Das Gupta, S.; Gladinski, K.; Guerro, L.; Nardelli, S.; Saltarelli, A. E0 Decay from the First 0+ State in Dy 156 and Er 160. *Phys. Rev. C* **2014**, 90 (4), 44317.
62. Koynova, R.; Tenchov, B. Enhancing Nucleic Acid Delivery, Insights from the Cationic Phospholipid Carriers. *Current Pharmaceutical Biotechnology* **2014**, 15 (9), 806–813.
63. Atanasov, I.; Ferrando, R.; Johnston, R. L. Structure and Solid Solution Properties of Cu–Ag Nanoalloys. *J. Phys.: Condens. Matter* **2014**, 26 (27), 275301.
64. Chantry, R. L.; Atanasov, I.; Horswell, S. L.; Li, Z. Y.; Johnston, R. L. Interfacial Structures and Bonding in Metal-Coated Gold Nanorods. *Struct. Bond.* **2014**, 162, 67–90.
65. Benbassat, N.; Yoncheva, K.; Hadjimitova, V.; Hristova, N.; Konstantinov, S.; Lambov, N. Influence of the Extraction Solvent on Antioxidant Activity of *Althaea Officinalis* L. Root Extracts. *Cent. Eur. J. Biol.* **2014**, 9 (2), 182–188.
66. Стоев, С. В. Проучвания На Биофизични, Хемореологични И Клинико-Лабораторни Показатели При Артериална Хипертония. Дисертация, Медицински Университет - София: София, 2014.
67. Uzunov, T.; Uzunova, P.; Uzunov, T.; Grozdanova, R. Resection of the Tooth Apex with Diode Laser. *Acta Medica Bulgarica* **2014**, 41 (1), 45–49.
68. Iliev, M.; Kotzev, G.; Djoumaliski, S.; Exner, G.; Licheva, M.; Antonova, B.; Karashanova, D. Crystallization, Structure and Morphology of Isotactic-Poly(propylene)/carbon Nanoparticle Composites. *Nanoscience&Nanotechnology* **2014**, 14, 117–119.
69. Koynova, R.; Tenchov, B. Recent Patents on Nonlamellar Liquid Crystalline Lipid Phases in Drug Delivery. *Recent Patents on Drug Delivery & Formulation* **2013**, 7 (3), 165–173.
70. Христова-Авакумова, Н. Влияние На Повърхностните Физико-Химични Характеристики Върху Поведението И Разпределението На Наночастици in Vivo. In *Втори национален конгрес по физически науки*; Херон Прес: София, 2013.
71. Христова-Авакумова, Н.; Хаджимитова, В.; Трайков, Т. Антиоксидантни Свойства На Новосинтезирани Хелатори На Желязо. In *Втори национален конгрес по физически науки*; Херон Прес: София, 2013.

72. Chantry, R. L.; Atanasov, I.; Siriwatcharapiboon, W.; Khanal, B. P.; Zubarev, E. R.; Horswell, S. L.; Johnston, R. L.; Li, Z. Y. An Atomistic View of the Interfacial Structures of AuRh and AuPd Nanorods. *Nanoscale* **2013**, 5 (16), 7452–7457.
73. Atanasov, I.; Barcaro, G.; Negreiros, F. R.; Fortunelli, A.; Johnston, R. L. Modelling the Metal-on-Top Effect for Pd Clusters on the MgO{100} Substrate. *J. Chem. Phys.* **2013**, 138 (22), 224703.
74. Uzunova, P.; Deneva, M.; Uzunov, T.; Rabadzhiyska, S.; Kisov, H.; Kaymakanova, N.; Dinkov, E.; Nenchev, M. Penetration of IR Laser Radiation in Human Teeth: Angular Distribution of Light and Coefficients of Absorption and Scattering. *Acta Medica Bulgarica* **2013**, 40 (1), 65–75.
75. Koynova, R.; Tenchov, B. G. Transitions between Lamellar and Non-Lamellar Phases in Membrane Lipids and Their Physiological Roles. *OA Biochemistry* **2013**, 1 (1), 9.
76. Uzunova, P.; Rabadgiiska, S.; Uzunov, T.; Kisov, H.; Kaimakanova, N.; Deneva, M.; Dinkov, E.; Nenchev, M. Study the Penetration of IR Laser Radiation in Human Teeth: Determination of the Absorbed and Scattered Parts. In *17th International School on Quantum Electronics: Laser Physics and Applications*; International Society for Optics and Photonics, 2013; Vol. 8770, p 87701A.
77. Tenchov, B. G.; MacDonald, R. C.; Lentz, B. R. Fusion Peptides Promote Formation of Bilayer Cubic Phases in Lipid Dispersions. An X-Ray Diffraction Study. *Biophysical Journal* **2013**, 104 (5), 1029–1037.
78. Deleanu, D.; Balabanski, D. L.; Venkova, T.; Bucurescu, D.; Mărginean, N.; Ganioglu, E.; Căta-Danil, G.; Atanasova, L.; Căta-Danil, I.; Detistov, P.; Filipescu, D.; Ghiță, D.; Glodariu, T.; Ivașcu, M.; Mărginean, R.; Mihai, C.; Negret, A.; Pascu, S.; Sava, T.; Stroe, L.; Suliman, G.; Zamfir, N. V. Excited States in 129I. *Phys. Rev. C* **2013**, 87 (1), 14329.
79. Navrátil, Z.; Dosoudilová, L.; Hnilica, J.; Bogdanov, T. Optical Diagnostics of a Surface-Wave-Sustained Neon Plasma by Collisional–radiative Modelling and a Self-Absorption Method. *J. Phys. D: Appl. Phys.* **2013**, 46 (29), 295204.
80. Miteva, S.; Alexandrov, S. A.; Hristova-Avakumova, N.; Stoeff, S.; Traikov, L.; Gerasimova, D.; Jovtchev, S. Hemorheology in Biophysics Education for Students in Medicine. In *Scientific Reports of the Union of Scientists in Bulgaria*; Научни трудове на СУБ-Пловдив; Plovdiv, 2013; Vol. 16, pp 246–252.
81. Koynova, R.; Tenchov, B. Phase Transitions and Phase Behavior of Lipids. *Encyclopedia of Biophysics*; Springer Berlin Heidelberg, 2013; pp 1841–1854.
82. Huo, T.; Barth, R. F.; Yang, W.; Nakkula, R. J.; Koynova, R.; Tenchov, B.; Chaudhury, A. R.; Agius, L.; Boulikas, T.; Elleaume, H.; Lee, R. J. Preparation, Biodistribution and Neurotoxicity of Liposomal Cisplatin Following Convection Enhanced Delivery in Normal and F98 Glioma Bearing Rats. *PLOS ONE* **2012**, 7 (11), e48752.
83. Oktem, Y.; Balabanski, D. L.; Akkus, B.; Susam, L. A.; Atanasova, L.; Beausang, C. W.; Cakirli, R. B.; Casten, R. F.; Danchev, M.; Djongolov, M.; Ganioglu, E.; Gladnishki, K. A.;



- Goon, J. T.; Hartley, D. J.; Hecht, A. A.; Krücken, R.; Novak, J. R.; Rainovski, G.; Riedinger, L. L.; Venkova, T.; Yigitoglu, I.; Zamfir, N. V.; Zeidan, O. Triaxial Deformation and Nuclear Shape Transition in  $^{192}\text{Au}$ . *Phys. Rev. C* **2012**, *86* (5), 54305.
84. Tenchov, B.; Koynova, R. Cubic Phases in Membrane Lipids. *Eur. Biophys. J.* **2012**, *41* (10), 841–850.
85. Biljali, S.; Hadjimitova, V. A.; Topashka-Ancheva, M. N.; Momekova, D. B.; Traykov, T. T.; Karaivanova, M. H. Antioxidant and Antiradical Properties of Esculin, and Its Effect in A Model of Epirubicin-Induced Bone Marrow Toxicity. *Folia Medica* **2012**, *54* (3), 42–49.
86. Tenchov, B.; Sugimoto, Y.; Koynova, R.; Brueggemeier, R. W.; Lee, R. J. Highly Efficient Cationic Ethylphosphatidylcholine siRNA Carrier for GFP Suppression in Modified Breast Cancer Cells. *Anticancer Res* **2012**, *32* (7), 2563–2566.
87. Zhu, B.; Wang, Y.; Atanasov, I. S.; Cheng, D.; Hou, M. Ordering and Segregation in Isolated Au–Pd Icosahedral Nanoclusters and Nanowires and the Consequences of Their Encapsulation inside Carbon Nanotubes. *J. Phys. D: Appl. Phys.* **2012**, *45* (16), 165302.
88. Traykova, M.; Astasidi, L.; Traykov, T.; Boyadjieva, N. I. In Vivo Antioxidant Effect of Trolox in the Brain of Rats Exposed to Diurnal Rhythm Disturbance. *Trakia Journal of Sciences* **2012**, *10* (1), 336–339.
89. Traykov, T.; Traykova, M.; Astasidi, L.; Boyadjieva, N. I. Trolox Decreases the Oxidative Damage of the Blood Plasma in Rat Models of Diurnal Rhythm Disturbance and Prolonged Ethanol Intake. *Trakia Journal of Sciences* **2012**, *10* (1), 326–330.
90. Stoeff, S.; Jovtchev, S.; Trifonova, N. Whole Blood Viscosity Assessment in Arterial Hypertension: A Mathematical Approach. *Series on Biomechanics* **2012**, *27* (1–2), 65–68.
91. Stanchev, S.; Pencheva, I.; Konstantinov, S.; Obreshkova, D.; Hadjimitova, V. Application of UV-Vis Spectrophotometric and Chemiluminescent Methods for Evaluation of the Antioxidant Action of Curcumin. *J. Serb. Chem. Soc.* **2012**, *77* (8), 1063–1069.
92. Mihov, D.; Antonova, B. Using Infrared Thermography in Medicine. *Trakia Journal of Sciences* **2012**, *10* (2), 88–94.
93. Memedi, B.; Traykova, M.; Boyadjieva, N. I. Effects of Plant Oil and Animal Fat on the Free-Radicals Formation in the Blood Plasma and Liver of Juvenile Rat Exposed to a Fat-Rich Diet. *Trakia Journal of Sciences* **2012**, *10* (1), 321–325.
94. Kisyov, S.; Lalkovski, S.; Mărginean, N.; Bucurescu, D.; Atanasova, L.; Balabanski, D.; Căta-Danil, G.; Căta-Danil, I.; D Deleanu; Detistov, P.; Filipescu, D.; Ghiță, D.; Glodariu, T.; Mărginean, R.; Mihai, C.; Negret, A.; Pascu, S.; Sava, T.; L Stroe; Suliman, G.; Zamfir, N. V.; Zhekova, M. Fast-Timing Measurements in  $^{95}\text{Mo}$ ,  $^{96}\text{Mo}$ . *J. Phys.: Conf. Ser.* **2012**, *366* (1), 12027.
95. Ivanov, K.; Bogdanov, T.; Benova, E. The Role of Plasma Radius as a Condition for Sustaining a Coaxial Discharge at Various Wave Modes. *J. Phys.: Conf. Ser.* **2012**, *356* (1), 12045.

96. Dimitrova, M.; Ivanova, P.; Kotseva, I.; Popov, T. K.; Benova, E.; Bogdanov, T.; Stöckel, J.; Dejarnac, R. Evaluation of the Plasma Parameters in COMPASS Tokamak Divertor Area. *J. Phys.: Conf. Ser.* **2012**, *356* (1), 12007.
97. Astatidi, L.; Traykova, M.; Traykov, T.; Boyadjieva, N. I. In Vivo Antioxidant Effect of Trolox in Rat Brain, in Model of Prolonged Ethanol Intake. *Trakia Journal of Sciences* **2012**, *10* (1), 331–335.
98. Alexandrov, S.; Hristova-Avakumova, N.; Miteva, S.; Stoeff, S.; Traikov, L.; Gerasimova, D.; Jovtchev, S. Factors Influencing Erythrocyte Aggregation – an Investigation during Routine Student’s Practice. *Series on Biomechanics* **2012**, *27* (1–2), 30–33.

### 3a 2011

1. Cheng, D.; Atanasov, I. S.; Hou, M. Influence of the Environment on Equilibrium Properties of Au-Pd Clusters. *Eur. Phys. J. D* **2011**, *64* (1), 37–44.
  2. Kisyov, S.; Lalkovski, S.; Mărginean, N.; Bucurescu, D.; Atanasova, L.; Balabanski, D. L.; Căta-Danil, G.; Căta-Danil, I.; Daugas, J.-M.; Deleanu, D.; Detistov, P.; Filipescu, D.; Georgiev, G.; Ghiță, D.; Glodariu, T.; Jolie, J.; Judson, D. S.; Lozeva, R.; Mărginean, R.; Mihai, C.; Negret, A.; Pascu, S.; Radulov, D.; Régis, J.-M.; Rudigier, M.; Sava, T.; Stroe, L.; Suliman, G.; Zamfir, N. V.; Zell, K. O.; Zhekova, M. In-Beam Fast-Timing Measurements in  $^{103,105,107}\text{Cd}$ . *Phys. Rev. C* **2011**, *84* (1), 14324.
  3. Hoischen, R.; Rudolph, D.; Ma, H. L.; Montuenga, P.; Hellström, M.; Pietri, S.; Podolyák, Z.; Regan, P. H.; Garnsworthy, A. B.; Steer, S. J.; Becker, F.; Bednarczyk, P.; Cáceres, L.; Doornenbal, P.; Gerl, J.; Górska, M.; Grębosz, J.; Kojouharov, I.; Kurz, N.; W Prokopowicz; Schaffner, H.; Wollersheim, H. J.; Andersson, L.-L.; Atanasova, L.; Balabanski, D. L.; Bentley, M. A.; A Blazhev; Brandau, C.; Brown, J. R.; Fahlander, C.; Johansson, E. K.; Jungclaus, A. Isomeric Mirror States as Probes for Effective Charges in the Lower Pf Shell. *J. Phys. G: Nucl. Part. Phys.* **2011**, *38* (3), 35104.
1. Atanasov, I. S.; Hou, M. Non-Equilibrium Properties of Au-Pd Nanoparticles. *Solid State Phenomena* **2011**, *172–174*, 670–675.
  2. Долчинкова, В.; Христова-Авакумова, Н.; Рукова, Б.; Петрова, С. Повърхностен Електричен Заряд На Еритроцити В Норма И Патология. Взаимодействие С Лектини И Невротоксична Фосфолипаза А2. In *Известия на Съюза на учените*; Варна, 2011; Vol. 16, pp 5–10.
  3. Uzunova, P.; Uzunov, T. T.; Rabadgiiska, S.; Kaimakanova, N.; Nenchev, M. Analysis of the Penetration of the Laser Radiation in Dental Tissue. *Journal of Technical University Sofia, Branch Plovdiv* **2011**, *16*, 297–301.

4. Ivanova, P.; Popov, T. K.; Dimitrova, M.; Benova, E.; Bogdanov, T.; Stöckel, J.; Dejarnac, R. Precise Evaluation of the Plasma Potential in COMPASS Tokamak Divertor Area. *Acta Technica* **2011**, *56*, T71–T83.