

Списък на научни публикации

на гл. ас. д-р **Нина Кънева-Добревска**

ФАКУЛТЕТ ПО ХИМИЯ И ФАРМАЦИЯ

СОФИЙСКИ УНИВЕРСИТЕТ „СВ. КЛИМЕНТ ОХРИДСКИ“

Глави от книги

- 1) **N. Kaneva**, A. Bojinova, K. Papazova, “Photocatalytic efficiency of zinc oxide films obtained at different annealing temperatures”, BLACK SEA NETWORK FOR INTERCULTURAL COMMUNICATIONS (BIC), ISBN: 978-625-7720-11-3, 5, (2020), 171-179. ISPEC Publishing House, Editors Dr. Bulent Haner and Zhuldyz SAKHI.
- 2) **N. Kaneva**, A. Bojinova, K. Papazova, “Mechanoactivated ZnO powder catalysts – photodegradation of the colorant Orange II”, BLACK SEA NETWORK FOR INTERCULTURAL COMMUNICATIONS (BIC), ISBN: 978-625-7720-11-3, 5, (2020), 180-188. ISPEC Publishing House, Editors Dr. Bulent Haner and Zhuldyz SAKHI.
- 3) **Nina Kaneva**, Assya Bojinova, Karolina Papazova, “Synthesis of ZnO, ZnFe₂O₄ and ZnO/ZnFe₂O₄ films and investigation of their photocatalytic efficiencies”, BLACK SEA NETWORK FOR INTERCULTURAL COMMUNICATIONS, Full text book, ISBN: 978-625-7720-38-0, (2021), 498-506. ISPEC Publishing House, Editors Dr. Serhat Haner and Zhuldyz SAKHI.
- 4) **Nina Kaneva**, Assya Bojinova, Karolina Papazova, “Anatase/Rutile composites – on the photocatalytic degradation of Orange II Azo-dye”, BLACK SEA NETWORK FOR INTERCULTURAL COMMUNICATIONS, Full text book, ISBN: 978-625-7720-38-0, (2021), 507-515. ISPEC Publishing House, Editors Dr. Serhat Haner and Zhuldyz SAKHI.
- 5) **Nina Kaneva**, Asya Bozhinova, Karolina Papazova, “Photocatalytic degradation of Reactive Black 5 and Malachite Green using ZnO/RE composite powders”, Changes in the global world and the new solutions, Proceedings of the international scientific conference, ISBN: 978-619-7404-29-6, (2021), 148-156. Publishing House – Lyuben Karavelov Regional Library Ruse, Editors – Teodora Evtimova, Ketii Ilieva, Valeriya Yordanova, Reneta Konstantinova, Tatyana Savova.
- 6) **N. Kaneva**, A. Bojinova, K. Papazova, “ZnO films with different morphologies prepared by sol-gel method on aluminum foil for photocatalytic degradation”, EUROASIA International Congress on Scientific Researches and Recent Trends-IX, ISBN: 978-625-8405-60-6, (2022), 91-99. IKSAD – Publications, Editors Assist. Prof. Dr. Ahmet KARDAŞLAR, Merve KIDIRYÜZ.
- 7) **N. Kaneva**, R. Velinova, A. Naydenov, S. Todorova, G. Atanasova, A. Bojinova, K. Papazova, “Catalytic activity of ZnO-CeO₂ in combustion of methane, propane and butane”, EUROASIA International Congress on Scientific Researches and Recent Trends-IX, ISBN: 978-625-8405-60-6,

(2022), 100-107. IKSAD – Publications, Editors Assist. Prof. Dr. Ahmet KARDAŞLAR, Merve KIDIRYÜZ.

Научни публикации

- 1) **N. V. Kaneva**, G. G. Yordanov, C. D. Dushkin, “Photocatalytic action of ZnO thin films prepared by sol-gel method”, *Reaction Kinetics, Mechanisms and Catalysis*, 98 (2009), 259-263.
- 2) **N. Kaneva**, G. Yordanov, C. Dushkin, “Photocatalytic Activity of Zinc Oxide particles Prepared by Sol-Gel Technology”, *Nanoscience and Nanotechnology*, vol. 9, E. Balabanova, I. Dragieva (eds.), Marin Drinov Publ. House, Sofia, 9 (2009), 54-57.
- 3) G. G. Yordanov, **N. V. Kaneva**, C. D. Dushkin, “Synthesis and characterization of novel core-shell nanoparticles ZnO/poly(ethylcyanoacrylate)”, *Colloid Polymer Science*, 287 (2009), 733-738.
- 4) Y. Dimitriev, Y. Ivanova, A. Staneva, L. Alexandrov, M. Mancheva, R. Yordanova, C. Dushkin, **N. Kaneva**, C. Iliev, “Synthesis of submicron powders of ZnO and ZnO-MnOm (MnOm=TiO₂, V₂O₅) by sol-gel methods”, *Journal of the University of Chemical Technology and Metallurgy*, 44 (2009), 235-242.
- 5) **N. V. Kaneva**, G. G. Yordanov, C. D. Dushkin, “Manufacturing of patterned ZnO films with application for photoinitiated decolorization of malachite green in aqueous solutions”, *Bulletin of Materials Science*, 33 (2010), 111-117.
- 6) **N. Kaneva**, I. Stambolova, V. Blaskov, Y. Dimitriev, S. Vassilev, C. Dushkin, “Photocatalytic activity of nanostructured ZnO films prepared by two different methods for the photoinitiated decolorization of malachite green”, *Journal Alloys Compounds*, 500 (2010), 252-258.
- 7) **N. V. Kaneva**, C. D. Dushkin, “Comparison of the photocatalytic activity of ZnO powders and nanostructured films prepared from powders with respect to the decolorization of Malachite green in aqueous solutions”, *Nanoscience and Nanotechnology*, vol. 10, E. Balabanova, I. Dragieva (eds.), Marin Drinov Publ. House, Sofia, 10 (2010), 59-64.
- 8) B. I. Stefanov, **N. V. Kaneva**, G. Li Puma, C. D. Dushkin, “Novel Mini-reactor Utilized for UV and Visible Light Tests of Immobilized Commercial and Modified TiO₂, *Colloids and Surface A: Physicochemical and Engineering Aspects*, 382 (2011), 219-225.
- 9) **N. V. Kaneva**, C. D. Dushkin, “Tuning of the UV photocatalytic activity of ZnO using zinc ferrite(III): powders and thin films prepared of powders”, *Colloids and Surface A: Physicochemical and Engineering Aspects*, 382 (2011), 211-218.
- 10) **Nina Kaneva**, Dimitre Dimitrov, Ceco Dushkin, “Effect of nickel doping on the photocatalytic activity of ZnO thin films under UV and Visible light”, *Applied Surface Science*, 257 (2011), 8113-8120.
- 11) **N. V. Kaneva**, C. D. Dushkin, “Preparation of nanocrystalline thin films of ZnO by sol-gel method”, *Bulgarian Chemical Communications*, 43 (2011), 259-263.

- 12) **N. V. Kaneva**, C. D. Dushkin, "Effect of the film annealing temperature on the photocatalytic activity of ZnO thin films prepared on aluminium foil by sol-gel dip coating", *Nanoscience and Nanotechnology*, vol. 11, E. Balabanova, I. Dragieva (eds.), Marin Drinov Publ. House, Sofia, 11 (2011), 109-112.
- 13) **Nina Kaneva**, Bozhidar Stefanov, Dimitre Dimitrov, Ceco Dushkin, "Photocatalytic degradation of Methylene Blue by ZnO photocatalyst doped with nickel", *Annuaire de L'Universite de sofia „St. Kliment Ohridski“ faculte de chimie*, 102/103 (2011), 293-304.
- 14) V. Blaskov, I. Stambolova, M. Shipochka, S. Vassilev, **N. Kaneva**, A. Loukanov, „Decolorization of Reactive Black 5 dye on TiO₂ hybrid films deposited by sol gel method", *University of Plovdiv "Paisii Hilendarski"*, 38 (2011), 149-159.
- 15) **N. Kaneva**, I. Stambolova, V. Blaskov, Y. Dimitriev, A. Bojinova, C. Dushkin, "A comparative study on the photocatalytic efficiency of ZnO thin films prepared substrates by the sol-gel method using both spray pyrolysis and dip coating", *Surface and Coatings Technology*, 207 (2012), 5-10.
- 16) **N. V. Kaneva**, C. D. Dushkin, A. S. Bojinova, "ZnO thin films preparation on glass substrates by two different sol-gel methods", *Bulgarian Chemical Communication*, 44 (2012), 261-267.
- 17) **N. Kaneva**, A. Bojinova, "Photocatalytic action of zinc ferrite and ZnO/zinc ferrite films in the degradation of Reactive Black 5", *Comptes rendus de l'Academie bulgare des Sciences*, 65 (2012), 1349-1356.
- 18) **N. Kaneva**, A. Bojinova, "Structural and photocatalytic properties of pure and doped with zinc ferrite ZnO doped UV and visible illumination", *Nanoscience and Nanotechnology*, E. Balabanova, I. Dragieva (eds.), Marin Drinov Publ. House, Sofia, 12 (2012), 88-91.
- 19) **N. Kaneva**, A. Bojinova, "UV and visible light photodegradation of Orange II in aqueous solutions: effect of the ZnO film thickness", *Nanoscience and Nanotechnology*, E. Balabanova, I. Dragieva (eds.), Marin Drinov Publ. House, Sofia, 12 (2012), 92-95.
- 20) A. Bojinova, C. Dushkin, M. Kostadinov, **N. Kaneva**, G. Ivanova, P. Georgiev, "Sol gel obtained nanocomposite TiO₂/WO₃ thin films for photocatalytic applications", *Nanoscience and Nanotechnology*, E. Balabanova, I. Dragieva (eds.), Marin Drinov Publ. House, Sofia, 12 (2012), 102-105.
- 21) **N. Kaneva**, K. Papazova, A. Bojinova, D. Dimitrov, "Photocatalic ZnO/TiO₂ films: Preparation, characterization and photocatalytic degradation of Orange II", *Nanoscience and Nanotechnology*, vol. 13, E. Balabanova, E. Mileva, Sofia, 13 (2013), 114-117.
- 22) **N. Kaneva**, K. Papazova, A. Bojinova, D. Dimitrov, "Effect of the solvents on photocatalytic performance of ZnO sol-gel films", *Nanoscience and Nanotechnology*, vol. 13, E. Balabanova, E. Mileva, Sofia, 13 (2013), 110-113.
- 23) L. Krasteva, D. Dimitrov, K. Papazova, N. Nikolaev, T. Peshkova, V. Moshnikov, I. Gracheva, S. Karpova, **N. Kaneva**, "Synthesis and Characterization of Nanostructured Zinc Oxide Layers for Sensor Applications", *Semiconductors*, 47 (2013), 586-591.

- 24) Л. Крастева, Д. Димитров, К. Папазова, Н. Николаев, Т. Пешкова, В. Мошников, И. Грачева, С. Карпова, **Н. Канева**, “ Синтез и характеристика наноструктурированных слоев оксида цинка для сенсорики ”, Физика и техника полупроводников, 47 (2013), 570-575.
- 25) A. Bozhinova, **N. Kaneva**, I. Kononova, S. Nalimova, S. Siuleiman, K. Papazova, D. Dimitrov, V. Moshnikov, E. Terukov, “Study of photocatalytic and sensory properties of nanocomposite ZnO/SiO₂ films”, Semiconductors, 47 (2013), 1636-1640.
- 26) А. Божинова, **Н. Канева**, И. Кононова, С. Налимова, Ш. Сюлейман, К. Папазова, Д. Димитров, В. Мошников, Е. Теруков, “Изучение фотокаталитических и сенсорных свойств нанокompозитных слоев ZnO/SiO₂”, Физика и техника полупроводников, 47 (2013), 1662-1666.
- 27) **N. Kaneva**, I. Stambolova, V. Blaskov, A. Eliyas, S. Vassilev, “Microwave-assisted and conventional sol-gel preparation of photocatalytically active ZnO/TiO₂/glass multilayers”, Central European Journal of Chemistry, 11 (2013), 1055-1065.
- 28) **N. Kaneva**, S. Siuleiman, A. Bojinova, K. Papazova, D. Dimitrov, I. Gracheva, S. Karpova, V. Moshnikov, “Nanosized Composite Thin Films of SiO₂-ZnO for Photocatalytic Decomposition of Organic Dyes – Structure and Characterization”, Bulgarian Chemical Communication, 45 (2013), 611-616.
- 29) **N. Kaneva**, A. Ponomareva, L. Krasteva, D. Dimitrov, A. Bojinova, K. Papazova, G. Suchaneck, V. Moshnikov, “Surface and Photocatalytic Properties of Nanostructured ZnO Thin Films Doped with Iron”, Bulgarian Chemical Communication, 45 (2013), 635-643.
- 30) L. Krasteva, K. Papazova, A. Bojinova, **N. Kaneva**, A. Apostolov, “Synthesis and characterization of ZnO and TiO₂ powders, nanowire ZnO and ZnO/TiO₂ thin films for photocatalytic applications”, Bulgarian Chemical Communication, 45 (2013), 625-630.
- 31) **N. V. Kaneva**, L. K. Krasteva, A.S. Bojinova, K. I. Papazova, D. Tz. Dimitrov, ” Photocatalytic Oxidation of Paracetamol and Chloramphenicol by ZnO Nanowires”, Bulgarian Chemical Communication, 45 (2013), 110-114.
- 32) I. Pronin, I. Averin, **N. Kaneva**, S. Siuleiman, A. Karmanov, L. Krasteva, A. Bojinova, K. Papazova, D. Dimitrov, S. Igoshina, “Pharmaceutical drugs photodegradation by nanosized ZnO films”, Perspektywiczne opracowania są nauką i technikami (Poland), 31 (2013), 51-55.
- 33) **N. Kaneva**, A. Bojinova, K. Papazova, D. Dimitrov, Kinetic study on the photocatalytic degradation of Paracetamol and Chloramphenicol in the presence ZnO sol-gel films annealed at different temperatures, Science & Technologies, Natural & Mathematical science, 3 (2013), 6-10.
- 34) И. А. Пронин, **Н. В. Канева**, А. С. Божинова, И. А. Аверин, К. И. Папазова, Д. Ц. Димитров, В. А. Мошников, „Фотокаталитическое окисление фармацевтических препаратов на тонких наноструктурированных пленках оксида цинка”, Кинетика и катализ, 55 (2014), 1-5.
- 35) I. A. Pronin, **N. V. Kaneva**, A. S. Bozhinova, I. A. Averin, K. I. Papazova, D. Ts. Dimitrov, V. A. Moshnikov, “Photocatalytic Oxidation of Pharmaceuticals on Thin Nanostructured Zinc Oxide Films”, Kinetics and Catalysis, 55 (2014), 166–170.

- 36) **N. Kaneva**, A. Bojinova, K. Papazova, D. Dimitrov, "Effect of the substrate on photocatalytic efficiency of ZnO for Malachite Green degradation", *Journal of Chemical Technology and Metallurgy*, 49 (2014), 149 – 156.
- 37) **N. Kaneva**, I. Stambolova, V. Blaskov, A. Eliyas, "Photocatalytic efficiency of ZnO films prepared by sol-gel method using complexating agent or polymer additive", *Comptes Rendus de L'Academie Bulgare des Sciences*, 67 (2014), 505-512.
- 38) I. Stambolova, V. Blaskov, **N. Kaneva**, M. Shipochka, S. Vassilev, O. Dimitrov, A. Eliyas, "Effect of titanium dopant on the surface features and on the photocatalytic characteristics of ZnO films", *Materials Science in Semiconductor Processing*, 25 (2014) 244–250.
- 39) P. Georgiev, **N. Kaneva**, A. Bojinova, K. Papazova, K. Mircheva, K. Balashev, "Effect of gold nanoparticles on the photocatalytic efficiency of ZnO films", *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 460 (2014), 240-247.
- 40) S. Siuleiman, **N. Kaneva**, A. Bojinova, K. Papazova, A. Apostolov, D. Dimitrov, "Photodegradation of Orange II by ZnO and TiO₂ powders and nanowire ZnO and ZnO/TiO₂ thin films", *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 460 (2014), 408-413.
- 41) **N. Kaneva**, P. Georgiev, K. Balashev, A. Bojinova, K. Papazova, D. Dimitrov, "Enhanced photocatalytic degradation of malachite green by nanocrystalline ZnO/Au thin films", *Nanoscience and Nanotechnology*, vol. 14, E. Balabanova, E. Mileva, Sofia, 14 (2014), 59-62.
- 42) **N. Kaneva**, L. Krasteva, A. Bojinova, K. Papazova, D. Dimitrov, "Evaluation of the photocatalytic efficiency of sol-gel and nanowires ZnO films", *Nanoscience and Nanotechnology*, vol. 14, E. Balabanova, E. Mileva, Sofia, 14 (2014), 63-66.
- 43) N. Kaneva, A. Bojinova, K. Papazova, "Effect of Precursors Aging Time on the Photocatalytic Activity of ZnO Thin Films", *International Journal of Chemical, Nuclear, Materials and Metallurgical Engineering*, 9 (2015), 322-327.
- 44) **N. Kaneva**, A. Bojinova, K. Papazova, D. Dimitrov, "Photocatalytic Purification of Dye Contaminated Sea Water by Lanthanide (La³⁺, Ce³⁺, Eu³⁺) modified ZnO", *Catalysis Today*, 252 (2015), 113-119.
- 45) **N. Kaneva**, A. Bojinova, K. Papazova, D. Dimitrov, I. Svinjarov, M. Bogdanov, "Effect of thickness on the photocatalytic properties of ZnO thin films", *Bulgarian Chemical Communications*, 47 (2015), 395–401.
- 46) **N. Kaneva**, A. Bojinova, K. Papazova, D. Dimitrov, "Sol aging effect on the structure and photocatalytic action of ZnO films for pharmaceutical drugs degradation", *Bulgarian Chemical Communications*, 47 (2015), 402–408.
- 47) I. Pronin, N. Yakushova, I. Averin, **N. Kaneva**, A. Bojinova, K. Papazova, D. Dimitrov, "Patterns of Synthesis of Nanocomposites Based on SiO₂ Using Alkoxides as Precursors", *Nanoscience and Nanotechnology*, vol. 15, E. Balabanova, E. Mileva, Sofia, 15 (2015), 7-10.

- 48) **N. Kaneva**, A. Bojinova, K. Papazova, “Photocatalytic degradation of Reactive Black 5 and Malachite Green with ZnO and lanthanum doped nanoparticles”, *Journal of Physics: Conference Series*, 682 (2016) 012022, 1-7. doi:10.1088/1742-6596/682/1/012022.
- 49) D. Tz. Dimitrov, L. K. Krasteva, L. G. Lyutov, I. A. Pronin, I. A. Ivanova, **N. V. Kaneva**, K. I. Papazova, I. A. Averin, A. S. Bojinova, N. D. Yakushova, A. Ts. Georgieva, V. A. Moshnikov, “Experimental Investigation and Modeling of Bio-Sensitive Properties of ZnO/ZnO:Fe Junctions Based on the Nanostructured Films Produced by Sol-Gel Technology”, Part I, *Journal of Materials Science and Technology*, 24 (2016), 77–91.
- 50) D. Tz. Dimitrov, L. K. Krasteva, L. G. Lyutov, I. A. Pronin, I. A. Ivanova, **N. V. Kaneva**, K. I. Papazova, I. A. Averin, A. S. Bojinova, N. D. Yakushova, A. Ts. Georgieva, V. A. Moshnikov, “Experimental Investigation and Modeling of Bio-Sensitive Properties of ZnO/ZnO:Fe Junctions Based on the Nanostructured Films Produced by Sol-Gel Technology”, Part II, *Journal of Materials Science and Technology*, 24 (2016), 127–142.
- 51) **Nina Kaneva**, Assya Bojinova, Karolina Papazova, Dimitre Dimitrov, Katerina Zaharieva, Zara Cherkezova-Zheleva, Alexander Eliyas, “Effect of thermal and mechano-chemical activation on the photocatalytic efficiency of ZnO for drugs degradation”, *Archives of Pharmacal Research*, 39 (2016), 1418-1425.
- 52) **N. Kaneva**, A. Bojinova, K. Papazova, D. Dimitrov, “Effect of the thickness on photocatalytic performance of ZnO films”, *Nanoscience & Nanotechnology*, vol.16, E. Balabanova, E. Mileva, (2016), 24-26.
- 53) D. Dimitrov, N. Nikolaev, K. Papazova, L. Krasteva, I. Pronin, I. Averin, A. Bojinova, A. Georgieva, N. Yakushova, T. Peshkova, A. Karmanov, **N. Kaneva**, V. Moshnikov, “Investigation of the electrical and ethanol-vapour sensing properties of the junctions based on ZnO nanostructured thin film doped with copper”, *Applied Surface Science*, 392 (2017), 95-108.
- 54) Assya Bojinova, **Nina Kaneva**, Karolina Papazova, Alexander Eliyas, Emilia Stoyanova-Eliyas, Dimitre Dimitrov, “Green synthesis of UV and visible light active TiO₂/WO₃ powders and films for malachite green and ethylene photodegradation, Reaction Kinetics”, *Mechanisms and Catalysis*, 120 (2017), 821 – 832.
- 55) George Tzvetkov, **Nina Kaneva**, Tony Spassov, “Room-temperature fabrication of core-shell nano-ZnO/pollen grain biocomposite for adsorptive removal of organic dye from water”, *Applied Surface Science*, 400 (2017), 481–491.
- 56) S. S. Nalimova, I. E. Kononova, V. A. Moshnikov, D. Tz. Dimitrov, **N. V. Kaneva**, L. K. Krasteva, S. A. Syuleyman, A. S. Bojinova, K. I. Papazova, A. Ts. Georgieva, “Investigation of the vapor-sensitive properties of zinc oxide layers by impedance spectroscopy”, *Bulgarian Chemical Communications*, 49 (2017), 121 – 126.
- 57) **N. V. Kaneva**, A. S. Bojinova, K. I. Papazova, D. Tz. Dimitrov, A. E. Eliyas, „Investigation of photocatalytic properties of pure and Ln (La³⁺, Eu³⁺, Ce³⁺) – modified ZnO powders synthesized by thermal method”, *Bulgarian Chemical Communications*, 49, Special Issue G (2017), 172 –176.

58) S. Siuleiman, **N. Kaneva**, A. Bojinova, D. Dimitrov, K. Papazova, „ZnO/TiO₂ coupled semiconductor photocatalysts”, Bulgarian Chemical Communications, 49, Special Issue G (2017), 199–204.

59) George Tzvetkov, **Nina Kaneva**, Tony Spassov, „Low-temperatura preparation of ZnO-coated pollens and their photocatalytic performance under UV-light”, Comptes rendus de l'Acad'emie bulgare des Sciences, 70, (2017), 785-794.

60) George Tzvetkov, Tony Spassov, **Nina Kaneva**, “Mesoporous cellular-structured carbons derived from glucose–fructose syrup and their adsorption properties towards acetaminophen”, Functional Materials Letters, 10, (2017), 1750080-1- 1750080-4.

61) Sh. A. Syuleiman, N. D. Yakushova, I. A. Proninb, **N. V. Kaneva**, A. S. Bojinova, K. I. Papazova, M. N. Gancheva, D. Tz. Dimitrov, I. A. Averin, E. I. Terukov, V. A. Moshnikov, “Study of the Photodegradation of Brilliant Green on Mechanically Activated Powders of Zinc Oxide”, Technical Physics, 62, (2017), 1709–1713.

Ш.А. Сюлейман, Н.Д. Якушова, И.А. Пронин, **Н.В. Канева**, А.С. Божинова, К.И. Папазова, М.Н. Ганчева, Д.Ц. Димитров, И.А. Аверин, Е.И. Теруков, В.А. Мошников, „Исследование процессов фотодеградации бриллиантового зеленого на механоактивированных порошках оксида цинка”, Журнал технической физики, 87, (2017), 1707-1711.

62) **N. Kaneva**, A. Bojinova, K. Papazova, D. Dimitrov, Z. Cherkezova-Zheleva, D. Paneva, “Application of ZnFe₂O₄ in the photocatalytic degradation of pharmaceutical drugs”, Nanoscience & Nanotechnology, eds. E. Balabanova, E. Mileva, 17, (2017), 17-21.

63) **N. Kaneva**, A. Bojinova, K. Papazova, D. Dimitrov, “Evaluation of photocatalytic efficiency of ZnO sol-gel films”, Nanoscience & Nanotechnology, eds. E. Balabanova, E. Mileva, 18, (2017), 5-10.

64) **N. Kaneva**, A. Bojinova, K. Papazova, D. Dimitrov, “Mineralization of pharmaceutical drugs by ZnO photocatalysts under UV light illumination”, Bulgarian Chemical Communication, 50, (2018), 116-121.

65) **N. Kaneva**, A. Bojinova, K. Papazova, D. Dimitrov, “Heterogeneous photocatalytic degradation of Reactive Black 5 in aqueous suspension by La-modified ZnO powders”, Bulgarian Chemical Communication, 50, (2018), 198-204.

66) **N. Kaneva**, A. Bojinova, K. Papazova, D. Dimitrov, “An efficient La-ZnO photocatalysts: synthesis and photocatalytic properties for decolorization of organic dye in distilled and sea water solutions”, Nanoscience & Nanotechnology, eds. E. Balabanova, E. Mileva, 19, (2019), 25-29.

67) **N. Kaneva**, A. Bojinova, K. Papazova, D. Dimitrov, “Photocatalytic degradation of the pharmaceuticals Paracetamol and Chloramphenicol by Ln–modified ZnO photocatalysts”, Bulgarian Chemical Communication, 51, (2019), 406-413.