

СПИСЪК НА ПУБЛИКАЦИИТЕ
НА ДОЦ. Д-Р ЗАРА ПЕТКОВА ЧЕРКЕЗОВА-ЖЕЛЕВА,
ВКЛЮЧЕНИ В КОНКУРС ЗА ЗАЕМАНЕ НА АКАДЕМИЧНА ДЛЪЖНОСТ ПРОФЕСОР В
ПРОФЕСИОНАЛНО НАПРАВЛЕНИЕ 4.2. ХИМИЧЕСКИ НАУКИ, НАУЧНА СПЕЦИАЛНОСТ
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ОХАРАКТЕРИЗИРАНЕ НА КАТАЛИТИЧНИ МАТЕРИАЛИ”

1. Статия в списание с ISI импакт-фактор

1. **Cherkezova-Zheleva, Z.**, Paneva, D., Shopska, M., Ilieva, R., Iliev, M., Kovacheva, D., Kadinov, G.. Investigation of biogenic iron-containing nanoscale composite materials. *Hyperfine Interactions*, 239, 6, 2017, приета за печат: 2017, ISSN:0304-3843; 1572-9540, DOI:<https://doi.org/10.1007/s10751-017-1480-0>, SJR:0.528, ISI IF:**0.549**

2. Shopska, M., Paneva, D., Kadinov, G., **Cherkezova-Zheleva, Z.**, Mitov, I., Iliev, M.. Study on the Composition of Biogenic Iron-Containing Materials Obtained Under Cultivation of the *Leptothrix* sp. on Different Media. *Applied Biochemistry and Biotechnology*, 181, 3, 2017, DOI:10.1007/s12010-016-2255-9, 867-883. ISI IF:**1.606**

3. Shopska, M., Paneva, D., Kadinov, G., Kolev, H., Angelova, R., Iliev, M., **Cherkezova-Zheleva, Z.**, Mitov, I. Formation of biogenic iron-containing single-component material by *Leptothrix* sp. cultivation. *Comptes rendus de l'Acad'emie bulgare des Sciences*, 70, 10, Prof. Marin Drinov Publishing House, BAS, 2017, ISSN:ISSN 1310-1331, 1379-1388. SJR:0.207, ISI IF:**0.251**

4. Shopska, M., Paneva, D., Kolev, H., Kadinov, G., Ilieva, R., Iliev, M., **Cherkezova-Zheleva, Z.**, Mitov, I. Bioinspired synthesis of lepidocrocite-containing material and its catalytic behaviour in CO oxidation. *Helvetica Chimica Acta*, 100, 12, Wiley-VHCA AG, Zurich, Switzerland, 2017, ISSN:ISSN: 1522-2675, DOI: 10.1002/hlca.201700172, e1700172. ISI IF:**1.138**

5. Yordanova, I. D., Todorova, S. Zh., Kolev, H. G., **Cherkezova-Zheleva, Z. P.** Co-Mn mixed oxide catalysts for purification of waste gases from n-hexane. *Bulgarian Chemical Communications*, 49, Special Issue G, Bulgarian Academy of Sciences, Union of Chemists in Bulgaria, 2017, ISSN:0324-1130, 99-104. http://www.bcc.bas.bg/BCC_Volumes/Volume_49_Special_G_2017/BCC-49-G-Yordanova-99-104.pdf, ISI IF:**0.229**

6. Lazarova, T., Georgieva, M., Tzankov, D., Voykova, D., Aleksandrov, L., **Cherkezova-Zheleva, Z.**, Kovacheva, D.. Influence of the type of fuel used for the solution combustion synthesis on the structure, morphology and magnetic properties of nanosized NiFe₂O₄. *Journal of Alloys and Compounds*, 700, 2017, ISSN:0925-8388, DOI:10.1016/j.jallcom.2017.01.055, 272-283. ISI IF:**3.014**

7. Lazarova, T., Kovacheva, D., **Cherkezova-Zheleva, Z.**, Tyuliev, G.. Studies of the possibilities to obtain nanosized MnFe₂O₄ by solution combustion synthesis. *Bulgarian Chemical Communications*, 49, G, 2017, 217-224. http://www.bcc.bas.bg/BCC_Volumes/Volume_49_Special_G_2017/BCC-49-G-Lazarova-217-224.pdf, ISI IF:**0.238**

8. Sergeeva, I., Kerestedjian, T., Nikolova, R., **Cherkezova-Zheleva, Z.**, Gervilla, F.. Crystal chemistry and structural characterization of natural Cr-spinels. *Bulgarian Chemical Communications*, 49, 2017, 7-20. ISI IF:**0.238**

9. Tzvetkov, M., Milanova, M., **Cherkezova-Zheleva, Z.**, Spassova, I., Valcheva, E., Zaharieva, J., Mitov, I. Mixed Metal Oxides of the Type Co_xZn_{1-x}Fe₂O₄ as Photocatalysts for Malachite Green Degradation Under UV Light Irradiation. *Acta Chimica Slovenica*, 64, 2, 2017, ISSN:1580-3155, DOI:<https://doi.org/10.1016/j.matlet.2005.07.017>, 299-311. ISI IF:**0.983**

10. **Cherkezova-Zheleva, Z.**, Shopska, M, Paneva, D, Kovacheva, D, Kadinov, G, Mitov, I. Comparative Study of Biogenic and Abiotic Iron-containing Materials. *Hyperfine Interaction*, 237, 2016, DOI:10.1007/s10751-016-1257-x, 56. SJR:0.305, ISI IF:**0.347** [линк](#)

11. **Cherkezova-Zheleva, Z.P.**, Zaharieva, K.L., Ivanov, I.B., Idakiev, V. D., Mitov, I.G.. Synthesis of improved catalytic materials for High-Temperature water-gas shift reaction. *Croatia Chimica Acta*, 88, 4, Croatian Chemical Society, 2016, ISSN:0011-1643, DOI:10.5562/cca2789, 475-480. SJR:0.224, ISI IF:**1.19**

12. Kaneva, N., Bojinova, A., Papazova, K., Dimitrov, D., Zaharieva, K., **Cherkezova-Zheleva, Z.**, Eliyas, A.. Effect of thermal and mechanical activation on the photocatalytic efficiency of ZnO for drugs degradation. *Archives of Pharmacal Research*, 39, 10, Springer International Publishing AG, 2016, ISSN:0253-6269 (Print), DOI:10.1007/s12272-016-0789-6, 1418-1425. ISI IF: **2.49** [линк](#)

13. Shopska, M, Paneva, D, Kadinov, G, Todorova, S, Fabian, M, Yordanova, I, **Cherkezova-Zheleva, Z.**, Mitov, I. Composition and catalytic behaviour in CO oxidation of biogenic iron-containing materials. *Reaction Kinetics, Mechanisms and Catalysis*, 118, 1, Springer, 2016, ISSN:1878-5190, DOI:10.1007/s11144-016-0989-6, 179-198. ISI IF:**1.265** [линк](#)

14. Tsvetkov, M., Milanova, M., Pereira, L.C.J., Waerenborgh, J.C., **Cherkezova-Zheleva, Z.**, Zaharieva, J., Mitov, I. Magnetic properties of binary and ternary mixed metal oxides NiFe₂O₄ and Zn_{0.5}Ni_{0.5}Fe₂O₄ doped with rare earths by sol-gel synthesis. *Chemical Papers*, 70, 12, 2016, ISSN:0366-6352, DOI:10.1515/chempap-2016-0097, 1600-1610. ISI IF: **1.326** [ЛИНК](#)
15. **Cherkezova-Zheleva, Z.**, Zaharieva, K., Tsvetkov, M., Petkova, V., Milanova, M., **Mitov, I.** Impact of preparation method and chemical composition on physicochemical and photocatalytic properties of nano-dimensional magnetite-type materials. *American Mineralogist*, 100, 2015, ISSN:Print ISSN: 0003-004X, DOI:http://dx.doi.org/10.2138/am-2015-5152, 1257-1264. ISI IF: **1.964** [ЛИНК](#)
16. Milenova, K., Zaharieva, K., Eliyas, A., Avramova, I., Stambolova, I., Blaskov, V., Dimitrov, O., Vassilev, S., **Cherkezova-Zheleva, Z.**, Rakovsky, S.. Influence of mechanochemical activation of metal-doped ZnO on its photocatalytic activity in degradation of Malachite Green dye. *Bulgarian Chemical Communications*, 47, Special Issue C, "Marin Drinov" Publishing House of the Bulgarian Academy of Sciences, 2015, ISSN:0324-1130, 112-117. ISI IF:**0.201** [ЛИНК](#)
17. Tsyntsarski, B., Stoycheva, I., Tsoncheva, T., Genova, I., Dimitrov, M., Petrova, B., Paneva, D., **Cherkezova-Zheleva, Z.**, Budinova, T., Kolev, H., Gomis-Berenguer, A., Ania, C.O., Mitov, I., Petrov, N.. Activated carbons from waste biomass and low rank coals as catalyst supports for hydrogen production by methanol decomposition. *Fuel Processing Technology*, 137, ELSEVIER, 2015, 139-147. SJR:1.571, ISI IF: **3.847** [ЛИНК](#)
18. Zaharieva, K., Rives, V., Tsvetkov, M., **Cherkezova-Zheleva, Z.**, Kunev, B., Trujillano, R., Mitov, I., Milanova, M.. Preparation, characterization and application of nanosized copper ferrite photocatalysts for dye degradation under UV irradiation. *Materials Chemistry and Physics*, 160, Elsevier B. V., 2015, ISSN:0254-0584, DOI:10.1016/j.matchemphys.2015.04.036, 271-278. SJR:0.818, ISI IF: **2.259** [ЛИНК](#)
19. S. Zh. Todorova, **Z. P. Cherkezova-Zheleva**, I. D. Yordanova, A. Ganguly, H. G. Kolev, S. Mondal, M. G. Shopska, K. K. Tenchev, N. I. Velinov, A. K. Ganguli, G. B. Kadinov. Nano-sized iron oxide with controlled size modified with Pd for purification processes. *Bulgarian Chemical Communications*, 47, 1, Bulgarian Academy of Sciences, 2015, ISSN:0324-1130, 424-430. SJR:0.144, ISI IF:**0.229** [ЛИНК](#)
20. Tsvetkov, M., Zaharieva, K., **Cherkezova-Zheleva, Z.**, Milanova, M., Mitov, I. Photocatalytic activity of nanostructure zinc ferrite-type catalysts in degradation of malachite green under UV-light. *Bulgarian Chemical Communications*, 47, 1, "Marin Drinov" Publishing House of the Bulgarian Academy of Sciences, 2015, ISSN:0324-1130, 354-359. ISI IF:**0.201** [ЛИНК](#)
21. Zaharieva, K., **Cherkezova-Zheleva, Z.**, Kunev, B., Mitov, I., Dimova, S.. Impact of chemical composition on preparation of nanodimensional spinel ferrites. *Bulgarian Chemical Communications*, 47, 1, "Marin Drinov" Publishing House of the Bulgarian Academy of Sciences, 2015, ISSN:0324-1130, 261-267. ISI IF:**0.349** [ЛИНК](#)
22. Zaharieva, K., Milenova, K., **Cherkezova-Zheleva, Z.**, Dimova, S., Kunev, B., Eliyas, A., Mitov, I., Stambolova, I., Blaskov, V.. Effect of the duration of mechanochemical treatment on the photocatalytic activity under UV-light irradiation of nano-sized zinc oxide synthesized by precipitation. *Bulgarian Chemical Communications*, 47, 1, "Marin Drinov" Publishing House of the Bulgarian Academy of Sciences, 2015, ISSN:0324-1130, 342-347. ISI IF:**0.201** [ЛИНК](#)
23. Zaharieva, K., Milenova, K., **Cherkezova-Zheleva, Z.**, Eliyas, A., Kunev, B., Mitov, I.. Photocatalytic properties of ferrite/activated carbon composites for degradation of Malachite Green in aqueous medium. *Bulgarian Chemical Communications*, 47, Special Issue C, "Marin Drinov" Publishing House of the Bulgarian Academy of Sciences, 2015, ISSN:0324-1130, 99-104. ISI IF:**0.201** [ЛИНК](#)
24. Zaharieva, K., Milenova, K., Rives, V., Trujillano, R., **Cherkezova-Zheleva, Z.**, Eliyas, A., Tsvetkov, M., Kunev, B., Mitov, I. Mixed cobalt-copper ferrite-type materials - synthesis and photocatalytic efficiency in degradation of Reactive Black 5 dye under UV-light irradiation. *Bulgarian Chemical Communications*, 47, Special Issue C, "Marin Drinov" Publishing House of the Bulgarian Academy of Sciences, 2015, ISSN:0324-1130, 105-111. ISI IF:**0.201** [ЛИНК](#)
25. Genova, I., Tsoncheva, T., Dimitrov, M., Paneva, D., Tsyntsarski, B., Ivanova, R., **Cherkezova-Zheleva, Z.**, Budinova, T., Kovacheva, D., Mitov, I., Petrov, N.. Cobalt ferrite nanoparticles hosted in activated carbon from renewable sources as catalyst for methanol decomposition. *Catalysis Communications*, 55, ELSEVIER, 2014, DOI:doi:10.1016/j.catcom.2014.06.013, 43-48. SJR: **1.081** [ЛИНК](#)
26. **Cherkezova-Zheleva, Z.**, Zaharieva, K., Buchkov, K., Blagoev, B., Mitov, I. Effect of mechanochemical treatment on magnetic properties of nanodimensional magnetite-type materials. *Acta Physica Polonica A*, 126, 4, 2014, ISSN:0587-4246, DOI:10.12693/APhysPolA.126.912, 912-915. ISI IF:**0.604** [ЛИНК](#)
27. **Cherkezova-Zheleva, Z.**, Paneva, D., Todorova, S., Kolev, H., Shopska, M., Yordanova, I., Mitov, I.. Impact of active phase chemical composition and dispersity on catalytic behavior in PROX reaction. *Hyperfine Interactions*, 226, Kluwer Academic Publishers, 2014, DOI: 10.1007/s10751-013-0977-4, 529-543. SJR:0.307, ISI IF:**0.21** [ЛИНК](#)

28. **Cherkezova-Zheleva, Z.**, Paneva, D., Tsvetkov, M., Kunev, B., Milanova, M., Petrov, N., Mitov, I. Preparation of improved catalytic materials for water purification. *Hyperfine Interactions*, 226, 1-3, Kluwer Academic Publishers, 2014, DOI:10.1007/s10751-013-0976-5, 517-527. SJR:0.307 [ЛИНК](#)
29. **Cherkezova-Zheleva, Z.**, Paneva, D., Yordanova, I., Shopska, M., Kolev, H. Mechanochemical Preparation and Properties of Nanodimensional Perovskite Materials. *Acta Physica Polonica A*, 126, Polish Academy of Sciences, 2014, ISSN:0587-4246, DOI:10.12693/APhysPolA.126.916, 916-920. SJR:0.273, ISI IF:0.53 [ЛИНК](#)
30. S. Todorova, I. Yordanova, A. Naydenov, H. Kolev, **Z. Cherkezova-Zheleva**, K. Tenchev, B. Kunev. Cobalt-Manganese Supported Oxides as Catalysts for Complete n-Hexane and Methane Oxidation: Relationship between Structure and Catalytic Activity. *Rev Roum Chim*, 59, 3-4, Editions de l'Academie Republique Populaire, 2014, ISSN:0035-3930, 259-265. SJR:0.202, ISI IF:0.311 [ЛИНК](#)
31. Shopska, M., **Cherkezova-Zheleva, Z.**, Paneva, D., Petkova, V., Kadinov, G., Mitov, I. Treatment of biogenic iron-containing materials. *Croat. Chem. Acta*, 87, 2, Croatian Chemical Society, 2014, ISSN:0011-1643, 161-170. ISI IF:0.728 [ЛИНК](#)
32. Tsoncheva, T., Genova, I., Tsintsarski, B., Dimitrov, M., Paneva, D., **Cherkezova-Zheleva, Z.**, Budinova, T., Ivanova, R., Mitov, I., Petrov, N. Cobalt and iron modified activated carbon from coal tar pitch: preparation and application as catalysts for methanol decomposition. *Journal of Porous Materials*, 21, Kluwer Academic Publishers, 2014, 503-512. SJR:0.437 [ЛИНК](#)
33. T. Tsoncheva, I. Genova, B. Tsintsarski, M. Dimitrov, D. Paneva, **Z. Cherkezova-Zheleva, I.** Yordanova, G. Issa, D. Kovacheva, T. Budinova, H. Kolev, R. Ivanova, I. Mitov, N. Petrov, Transition metal modified activated carbons from biomass and coal treatment products as catalysts for methanol decomposition. *Reaction Kinetics, Mechanisms and Catalysis*, 110, Kluwer Academic Publishers, 2013, ISSN:1878-5190, DOI:10.1007/s11144-013-0612-z, 281-294. SJR:0.406, IF(2012)= 1.104.
34. M. Shopska, **Z. Cherkezova-Zheleva**, D. Paneva, M. Iliev, B. Kadinov, I. Mitov, V. Groudeva, Biogenic iron compounds: XRD, Mossbauer and FTIR study. *Central European Journal of Chemistry*, 11(2) 2013, 215-227, *Central European Science Journals*, ISSN:1895-1066, DOI: 10.2478/s11532-012-0148-5. ISI IF:1.329.
35. S. Dimova, K. Zaharieva, Ch. Jossifov, **Z. Cherkezova-Zheleva**, I. Mitov, Metathesis of Phenylalkynes and Aldehyde by Nanodimensional Ferrite Catalyst, *Journal of Chemical Technology and Metallurgy*, 48 (1) (2013) 28-33, ISSN: 1314-7471 (print); ISSN: 1314-7978 (on line). SJR (Scopus)= 0.167/0.142 ; SNIP = 0.285. http://dl.uctm.edu/journal/node/j2013-1/4_Dimova_Ivan_Mitov_28-34.pdf
36. **Z. Cherkezova-Zheleva**, K. Zaharieva, V. Petkova, B. Kunev, I. Mitov, Preparation and investigation of nanodimensional nickel ferrite, *Bulgarian Chemical Communications*, 44, (2012) pp. 24-29, IF(2012)= 0.320.
37. Banić, N., Abramović, B., Krstić, J., Šojić, D., Lončarević, D., **Cherkezova-Zheleva, Z.**, Guzsány, V., Photodegradation of Thiacloprid Using Fe/TiO₂ as a Heterogeneous Photo-Fenton Catalyst, *Applied Catalysis B: Environmental*, 107 (3-4) (2011), pp. 363-371. IF(2011)= 5.625.

2. Статия в международно списание без ISI импакт-фактор или сборник трудове от международна конференция

1. Stojanović, B., Velić, S., Vencl, A., Babić, M., Petrović, N., Miladinović, S., **Cherkezova-Zheleva, Z.** Optimization and Prediction of Aluminium Composite Wear Using Taguchi Design and Artificial Neural Network. *Tribological Journal BULTRIB*, 6, 2016, ISSN:1313-9878, 38-45
2. Eliyas, A., Christoskova, S., Stoyanova, M., Paneva, D., **Cherkezova-Zheleva, Z.**, Kolev, H. Synthesis and activity of nanosize Au/TiO₂ photocatalysts for air purification in flat plate continuous flow reactor. *Nanoscience & Nanotechnology*, 16, 2, BPS Avangard, 2016, ISSN:1313-8995, 11-15
3. Zaharieva, K., Milenova, K., Stambolova, I., Blaskov, V., Dimitrov, L., **Cherkezova-Zheleva, Z.**, Eliyas, A., Mitov, I. Nickel ferrite-activated carbon materials – preparation and photocatalytic efficiency for cleaning of Malachite Green and Reactive Black 5 dyes under UV-illumination. *Machines, Technologies, Materials International Journal*, year X, 5, Scientific Technical Union of Mechanical Engineering, 2016, ISSN:1313-0226, 10-13.
4. Milenova, K., Zaharieva, K., Avramova, I., Eliyas, A., Stambolova, I., Blaskov, V., Dimitrov, L., **Cherkezova-Zheleva, Z.**, Kunev, B., Rakovsky, S. Alumina based photocatalysts for degradation of Reactive Black 5 textile dye aqueous solution. *Tribological Journal BULTRIB*, 5, 5, Technical University Sofia, 2015, ISSN:1313-9878, 232-238.
5. Zaharieva K., Milenova K., Avramova I., Eliyas A., Stambolova I., Blaskov V., **Cherkezova-Zheleva Z.**, Kunev B., Karakirova Y., Rakovsky S., Effect of La doping and thermal treatment on the photocatalytic activity of ZnO for degradation of Reactive Black 5 dye, *Proc. III International scientific and technical*

conference technics. Technologies. Education. Safety, 28-29 May 2015, Veliko Tarnovo. Bulgaria, V. 2, p. 15-18, ISSN: 1310 – 3946

6. Milenova, K., Zaharieva, K., Avramova, I., Eliyas, A., Stambolova, I., Karakirova, Y., Blaskov, V., **Cherkezova-Zheleva, Z.**, Kunev, B., Rakovsky, S.. Characterization and photocatalytic investigation of copper oxide containing catalysts. Machines, Technologies, Materials International Journal, year IX, 5, Scientific Technical Union of Mechanical Engineering, 2015, ISSN:1313-0226, 3-6

7. Milenova, K., Zaharieva, K., Eliyas, A., Stambolova, I., Blaskov, V., Dimitrov, O., Dimitrov, L., **Cherkezova-Zheleva, Z.**, Rakovsky, S.. Comparison of the photocatalytic activities of Ag/ZnO and mechanochemically activated Ag/ZnO in the decomposition of Reactive Black 5 and Malachite Green dyes. Tribological Journal BULTRIB, 5, 5, Technical University Sofia, 2015, ISSN:1313-9878, 255-259

8. Todorova, S., Yordanova, I, Kolev, H, Shopska, M, Mondal, S, **Cherkezova-Zheleva, Z.**, Ganguly, A. K., Ganguly, A.. Nano-sized iron oxides with controlled size modified with Pt for co oxidation. Nanoscience & Nanotechnology, 15, 2, 2015, ISSN:ISSN:1313-8995, 10-13

9. Zaharieva, K., **Cherkezova-Zheleva, Z.**, Kunev, B., Mitov, I.. High-energy ball milling and physicochemical study of nanodimensional magnesium ferrites. Nanoscience & Nanotechnology: Nanostructured materials application and innovation transfer, 15, 1, National Coordination Council on Nanotechnologies, 2015, ISSN:1313-8995, 33-36

10. Milenova K., Zaharieva K., Avramova I., Eliyas A., Stambolova I., Karakirova Y., Blaskov V., Cherkezova-Zheleva Z., Kunev B., Rakovsky S., Characterization and photocatalytic investigation on copper oxide containing catalyst, Proc. III International scientific and technical conference technics. Technologies. Education. Safety, 28-29 May 2015, Veliko Tarnovo. Bulgaria, V. 2, p. 11-14, ISSN: 1310 – 3946

11. **Z. Cherkezova-Zheleva**, J. Krstić, D. Paneva, B. Kunev, D. Jovanović, I. Mitov, Role of tribochemical activation in synthesis of nano-sized ferrite materials, Proc. 11th International Conference on Tribology, Belgrade, Serbia, 13-15 May 2010.

12. Zaharieva, K., Milenova, K., Eliyas, A., Stambolova, I., Vassilev, S., Blaskov, V., **Cherkezova-Zheleva, Z.**, Rakovsky, S., Mitov, I.. Photocatalytic performance of acid impregnated ZnO powders and mechanochemical treatment for discoloring of textile dye. Tribological Journal BULTRIB, 5, 5, Technical University Sofia, 2015, ISSN:1313-9878, 239-244

13. Zaharieva, K., Milenova, K., Avramova, I., Eliyas, A., Stambolova, I., Blaskov, V., **Cherkezova-Zheleva, Z.**, Kunev, B., Karakirova, Y., Rakovsky, S., Effect of La doping and thermal treatment on the photocatalytic activity of ZnO for degradation of Reactive Black 5 dye, Machines, Technologies, Materials International Journal, year IX, 5, Scientific Technical Union of Mechanical Engineering, 2015, ISSN:1313-0226, 7-10.

14. I. Yordanova, **Z. Cherkezova-Zheleva**, S. Todorova, D. Paneva, M. Shopska, H. Kolev, Ž. Čupić, I. Mitov. Physico-Chemical Characterization of Nanosized LaFeO₃ Perovskite. Nanoscience & Nanotechnology, 14, Prof. M. Drinov Acad. Publ. House, Sofia, 2014, ISSN:1313-8995, 151-156

15. Shopska, M., Paneva, D., **Cherkezova-Zheleva, Z.**, Kadinov, G., Mitov, I., Groudeva, V.. Biogenic iron compounds obtained in Lieske medium for cultivation of laboratory isolated bacteria from the genus Leptothrix, Nanoscience&Nanotechnology, 14, Prof. M. Drinov Acad. Publ. House, Sofia, 2014, ISSN:1313-8995, 21-24

16. K. Zaharieva, **Z. Cherkezova-Zheleva**, B. Kunev, M. Shopska, V. Petkova, J. Krstić, I. Mitov, Preparation and Properties Of Nanosized Zn_xFe_{3-x}O₄ Spinel Materials, Nanoscience&Nanotechnology, 14, Prof. M. Drinov Acad. Publ. House, Sofia, 2014, ISSN:1313-8995, 39-42

17. Zaharieva, K., **Cherkezova-Zheleva, Z.**, Kunev, B., Dimova, S., Tsvetkov, M., Mitov, I., Milanova, M.. Phase changes in nanodimensional cobalt ferrite-type material activated by mechanochemical treatment. Tribological Journal BULTRIB, 4, 2014, ISSN:1313-9878, 89-94.

18. Milenova, K., Zaharieva, K., **Cherkezova-Zheleva, Z.**, Kunev, B., Eliyas, A., Blaskov, V., Stambolova, I., Mitov, I., Photodiscoloration of Reactive Black 5 dye using mechanochemically activated TiO₂-CeO₂ photocatalysts. Journal of International Scientific Publications: Materials, Methods & Technologies, 8, Science Events Ltd, 2014, ISSN:1314-7269, 241-249.

19. Zaharieva, K., Milenova, K., **Cherkezova-Zheleva, Z.**, Kunev, B., Dimova, S., Mitov, I., Physicochemical and Photocatalytic Investigations of Mechanochemically Treated TiO₂-ZnO Composites. Journal of International Scientific Publications: Materials, Methods & Technologies, 8, Science Events Ltd, 2014, ISSN:1314-7269, 250-258.

20. Dimova, S., Zaharieva, K., Sinigersky, V., **Cherkezova-Zheleva, Z.**, Mitov, I., Synthesis and characterization of oligomeric conjugated structures via coupling reaction using magnesium ferrite type catalyst, Journal of International Scientific Publications: Materials, Methods & Technologies, 8, Science Events Ltd, 2014, ISSN:1314-7269, 233-240.

21. K. Zaharieva, K. Milenova, **Z. Cherkezova-Zheleva**, A. Eliyas, D. Jovanović, I. Mitov, “Photocatalytic activities of nanodimensional cobalt-ferrite type of powders in the degradation of reactive black 5 dye”, in

"PHYSICAL CHEMISTRY 2014", Proc. of the 12th International Conference on Fundamental and Applied Aspects of Physical Chemistry, Published by the Society of Physical Chemistry of Serbia, (Eds. S. Anić and Ž. Čupić), "Jovan" Printing and Published Comp., ISBN 978-86-82475-27-9 Vol. 1, C-06-P, pp. 230-234 (2014).

22. **З. Черкезова-Желева**, Н. Велинов, Д. Панева, Б. Кунев, К. Захаријева, К. Колева, И. Ђорданова, Е. Манова, И. Митов, Разработване на нови смесено оксидни каталитични материали за опазване на околната среда, Списание на Българската академия на науките, 4 (2013) 13-21, ISSN: 0007-3989.

23. М. Shopska, **Z. Cherkezova-Zheleva**, D. Paneva, M. Iliev, G. Kadinov, I. Mitov, V. Groudeva, Phase Composition Study of Biogenic Materials Obtained by Cultivation of Iron Bacteria in Different Feeding Media, Nanoscience and Nanotechnology (Eds. E. Balabanova, E. Mileva) 13 (2013) 31-34, ISSN:1313-8995.

24. **Z. Cherkezova-Zheleva**, K. Zaharieva, B. Kunev, M. Shopska, I. Mitov, Nanosize Cobalt Ferrites – Preparation and Physicochemical Characterization, Nanoscience and Nanotechnology (Eds. E. Balabanova, E. Mileva) 13 (2013) 82-85, ISSN:1313-8995.

25. K. Zaharieva, **Z. Cherkezova-Zheleva**, B. Kunev, M. Shopska, I. Mitov, Synthesis route and structural properties of nanoferrites, Journal of International Scientific Publications: Materials, Methods & Technologies, 7 (1) (2013) 329-336, ISSN: 1313-2539.

26. **Z. Cherkezova-Zheleva**, K. Zaharieva, B. Kunev, I. Mitov, J. Krstić, Impact of mechanochemistry in ferrite catalyst preparation, Tribological Journal BULTRIB, 03 (2013) 203-207, ISSN: 1313-9878.

27. I. Yordanova, D. Paneva, **Z. Cherkezova-Zheleva**, B. Kunev, I. Mitov, Mechanochemical synthesis and properties of LaMnO₃, Tribological Journal BULTRIB, 4 (2014), 95-98.

28. **Z. Cherkezova-Zheleva**, K. Zaharieva, J. Krstic, M. Tsvetkov, I. Mitov, M. Milanova, Investigation of Physicochemical and Photocatalytic Properties of Magnetite type Nanosize Materials, in "PHYSICAL CHEMISTRY 2012", Proc. of the 11th International Conference on Fundamental and Applied Aspects of Physical Chemistry, Published by the Society of Physical Chemistry of Serbia, (Eds. S. Anić and Ž. Čupić), "Jovan" Printing and Published Comp., ISBN 978-86-82475-27-9 Volume 1, C-06-P, pp. 169-171 (2012).

29. **Z. Cherkezova-Zheleva**, K. Zaharieva, B. Kunev, M. Shopska, I. Mitov, Synthesis and Characterization of Ferrite Nanosized Materials, Nanoscience and Nanotechnology 12 (Eds. E. Balabanova, E. Mileva), (2012) pp. 123-126, ISSN: 1313-8995.

30. M. Tzvetkov, **Z. Cherkezova-Zheleva**, M. Milanova, D. Paneva, T. Tsoncheva, D. Todorovsky, I. Mitov, Zinc-nickel ferrites as catalysts for methanol decomposition, Nanoscience and Nanotechnology 12 (Eds. E. Balabanova, E. Mileva), (2012) pp. 127-130, ISSN: 1313-8995.

31. S. Veleva, **Z. Cherkezova-Zheleva**, M. Shopska, D. Paneva, V. Grudeva, M. Iliev, L. Slavov, I. Nedkov, G. Kadinov, I. Mitov, M. Mladenov, D. Kovacheva, Study of new materials based on biogenic iron oxides: physicochemical, electrochemical and catalytic properties, Nanoscience and Nanotechnology, Vol. 12 (Eds. E. Balabanova, E. Mileva), (2012), pp. 135-138, ISSN: 1313-8995.

32. **Cherkezova-Zheleva Z.**, Zaharieva, K., Petkova, V., Kunev, B., Mitov, I., Preparation of Ferrite Materials by Mechanochemical Activation, Tribological Journal BULTRIB, 2, 2012, Papers from Conference BULTRIB '11, October 28th, 2011, Sofia, Published by: Publ. House Technical University – Sofia, p. 49-55

33. **Z. Cherkezova-Zheleva**, M. Shopska, G. Kadinov, I. Mitov, Nano-Sized Ferrite Materials: Synthesis and Characterisation, Nanoscience and Nanotechnology 11 (Eds. E. Balabanova, I. Dragieva) (2011) pp. 134-137, ISSN: 1313-8995.

34. **Z. Cherkezova-Zheleva**, D. Paneva, V. Grudeva, M. Iliev, M. Shopska, T. Merodiiska, L. Slavov, I. Nedkov, G. Kadinov, I. Mitov, New materials based on biogenic iron oxides: physico-chemical properties, Nanoscience and Nanotechnology 11 (Eds. E. Balabanova, I. Dragieva) (2011) pp. 142-145, ISSN: 1313-8995.

35. Boyanov, B., **Cherkezova-Zheleva Z.** Ferrite formation in the MeO–Fe₂O₃ (Me–Zn, Cd, Cu) systems and its impact for the zinc hydrometallurgy. Materials, methods and technologies, 5, 1, 2011, 25-33

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