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СПИСЪК

на научните трудове по конкурса за „доцент“

Показател 4

Хабилитационен труд – научни публикации (не по-малко от 10) в издания, които са реферирани и индексирани в световноизвестни бази данни с научна информация (п е броят съавторите на съответната публикация)

1. R. G. Raicheff, G. E. Chernev, V. G. Zaprianova, D. I. Ivanova, P. R. Djambaski, B. I. Samuneva, I. M. Miranda Salvado, Electrochemical corrosion behaviour of silica hybrid sol-gel coatings, *Bulgarian Chemical Communications*, 40 (3), 2008, p. 295-299. (IF=0.156)
2. L. Petkov, A. Tzanev, I. Dardanova, D. Ivanova, P. Stefanov, D. Stoychev. Electrochemical formation and characterization of cerium, zirconium and yttrium oxides based cathodes for sodium hypochlorite preparation, *Oxidation Communications*, 36 (2), 2013, p. 367-378. (IF=0.451)
3. D. I. Ivanova, G. P. Ilieva, L. B. Fachikov, Cold plastic deformation effects on the mechanical properties and corrosion behaviour of low-alloyed (2 % Cr) steel, *Bulgarian Chemical Communications*, 49 (Special Issue L), 2017, p. 54-58. (IF=0.238)
4. I. N. Markova, I. Z. Zahariev, M. T. Georgieva, D. Tzankov, D. I. Ivanova, M. B. Piskin, L. B. Fachikov, Influence of the Co: Ni ratio on the properties of Co-Ni nanoparticles and their carbon-containing nanocomposites, *Reviews on Advanced Materials Science*, 50, 2017, p. 95-103. (IF= 2.172)
5. I. N. Markova, I. Z. Zahariev, V. L. Milanova, D. I. Ivanova, M. B. Piskin, L. B. Fachikov, E. Hristoforou, Nanomaterials based on intermetallic (Co-Sn, Ni-Sn, Co-Ni) nanoparticles studied by FTIR spectroscopy, *Reviews on Advanced Materials Science*, 52, December 2017, p. 70-81. (IF= 2.172)
6. I. Zahariev, M. Piskin, E. Karaduman, D. Ivanova, I. Markova, L. Fachikov, FTIR spectroscopy method for investigation of Co-Ni nanoparticle nanosurface phenomena, *Journal of Chemical Technology and Metallurgy*, 52 (5), 2017, p. 916-928.
7. K. Banov, D. Ivanova, L. Fachikov, V. Kotev, T. Stankulov, B. Banov, Lithium ion batteries: active electrode materials based on manganese dioxide, *Bulgarian Chemical Communications*, 50 (Special Issue A), 2018, 163-170. (IF=0.238)
8. K. Banov, T. Petkov, R. Boukoureshtlieva, D. Ivanova, L. Fachikov, V. Kotev, B. Banov, High voltage cathode materials based on lithium cobaltate with nickel and manganese doping, *Bulgarian Chemical Communications*, 50 (Special Issue A), 2018, 171-176. (IF=0.238)

9. I. N. Markova, M. B. Piskin, I. Z. Zahariev, E. Hristoforou, V. L. Milanova, D. I. Ivanova, L. B. Fachikov, Influence of the support on the morphology of Co-Sn, Ni-Sn, Co-Ni nanoparticles synthesized through a borohydride reduction method applying a template technique, *Reviews on Advanced Materials Science*, 55, 2018, p. 82-91. (IF=2.172)
10. I. Markova, M. Piskin, I. Zahariev, D. Ivanova, L. Fachikov, E. Christoforou, Spectroscopic Study of The Template Synthesized Intermetallic (Co-Sn, Ni-Sn, Co-Ni) Nanoparticles with a Carbon Support, *Journal of Chemical Technology and Metallurgy*, 53 (4), 2018, p. 729-739.

Показател 7

Научни публикации (статии и доклади), публикувани в издания, които са реферирани и индексирани в световноизвестни бази данни с научна информация

11. Fachikov L., Y. Tumbaleva, D. Ivanova, Phosphating of ferro-carbon alloys by modifying zinc-phosphate solutions, *Bulgarian Chemical Communications*, 40 (3), 2008, p. 355-359. (IF=0.156)
12. Y. Tumbaleva, D. Ivanova, L. Fachikov, Effect of the $P_2O_5:NO_3^-$ ratio on the zinc phosphate coating formation, *Journal of the University of Chemical Technology and Metallurgy*, 46 (4), 2011, p. 357-362. точки
13. L. Fachikov, Y. Tumbaleva, D. Ivanova, B. Tzaneva, Characterisation of amorphous phosphate coatings onto carbon steel surfaces, *Transactions of the Institute of Metal Finishing*, 90 (6), 2012, p. 330-333. (IF=0.590)
14. D. I. Ivanova, G. P. Ilieva, L. B. Fachikov, Corrosion behavior in model solutions of steels suggested as construction materials for mining industries, *Bulgarian Chemical Communications*, 50 (Special Issue A), 2018, 70-76. (IF=0.238)
15. G. P. Ilieva, L. B. Fachikov, D. I. Ivanova, Thin phosphate films on aluminum surfaces, *Bulgarian Chemical Communications*, 50 (Special Issue A), 2018, 55-60. (IF=0.238)
16. R. N. Simitchiiska, D. Ivanova, L. Fachikov, SEM and EDX Study of Stainless Steels, Suggested as Human Body Implants, *IOP Conference Series: Materials Science and Engineering*, 374 (1), 2018, 012002.
17. D. Ivanova, Phosphating of Carbon Steels in Solutions Containing Zinc and Zinc-Manganese Phosphates, *IOP Conference Series: Materials Science and Engineering*, 374 (1), 2018, 012033.
18. Dimka I. Ivanova, Ludmil B. Fachikov, Effect of The Potential on The Film Composition and The Stress Corrosion Cracking of Mild Steel in Ammonium Nitrate Solutions, *Journal of Chemical Technology and Metallurgy*, 53 (4), 2018, p. 740-744.
19. Dimka Ivanova, Phosphatizing of Mild Steel in Zinc-Manganese-Nickel Phosphates in Different Correlations, *Journal of Chemical Technology and Metallurgy*, 54 (5), 2019, p. 1072-1078.

Показател 8

Научни публикации (статии и доклади), публикувани в нереферирани списания с научно рецензиране или в редактирани колективни томове

20. Fachikov L., D. Ivanova, D. Dimov, Zinc-Manganese Phosphating of Carbon Steels: Characteristics of Solutions and Coatings, *Journal of the University of Chemical Technology and Metallurgy*, 41 (1), 2006, p.15-20.
21. Fachikov L., D. Ivanova. Passivation of Zinc Surfaces by Molybdenum Solutions, 1st International Conference on Corrosion and Material Protection (EFC event no. 294), October 1-4, 2007, Prague, Czech Republic, Proceedings, Paper No. 066, Editor: SVÚOM, Ltd., Prague, Institute for Corrosion Research and Material Protection. ISBN 978-80-903933-0-1.
22. D. Ivanova, K. Kamburova, P. Kirilov, L. Fachikov, Mild Steel Corrosion Resistance in Liquid Fertilizer Solutions, *Journal of the University of Chemical Technology and Metallurgy*, 45 (1), 2010, p. 53-58.
23. I. Markova, I. Zahariev, D. Ivanova, V. Milanova, L. Fachikov, EDS and XPS Study of The Surface Composition of Template Synthesized Intermetallic (Co-Sn, Ni-Sn, Co-Ni) Nanoparticles using a Carbon-Based Support, Proceedings of ISER 113th International Conference, Copenhagen, Denmark, 15th-16th March 2018, p. 6-11.
24. I. Markova, M. Piskin, V. Milanova, T. Stankulov, I. Zahariev, D. Ivanova, L. Fachikov, Dependence of The Electrochemical Behavior of Intermetallic (Co-Sn) Nanoparticles and Their Carbon Nanocomposites on The Elemental Composition, Proceedings of ISER 189th International Conference, Cannes, France, 13th-14th March 2019, p. 1-6 ISBN 978-93-88786-81-2.
25. I. Markova, M. Piskin, I. Zahariev, D. Ivanova, L. Fachikov, Morphology and Elemental Composition of Chemical Synthesized Intermetallic (Co-Sn, Ni-Sn, Co-Ni) Nanoparticles and Their Carbon Nanocomposites, Proceedings of ISER International Conference, Venice, Italy, 21st-22nd April 2019, p. 1-7 ISBN 978-93-87405-18-9.

Показател 1

Дисертационен труд за присъждане на образователна и научна степен "доктор"

- Публикации в реферирани и индексирани издания в Web of Science, Scopus – 2 бр. (40/n)

26. D. Ivanova, L. Fachikov, "Phosphating of zinc surfaces in zinc-calcium solutions", Bulgarian Chem. Communications, v.43, №1, 2011, p. 54-59.
27. L. Fachikov, D. Ivanova, "Surface treatment of zinc coatings by molybdate solutions", Applied Surface Science, v. 258, № 24, 2012, p. 10160– 10167.

- Публикации в нереферирани списания – 1 бр. (20/n)

- 28.** Ivanova D., L. Fachikov. Phosphating of cold galvanized carbon steel, J.of the UCTM, Sofia, 42, 2, 2007, p.159-162.