

СПИСЪК НА ПУБЛИКАЦИИТЕ НА УЧЕНИТЕ ОТ ИОНХ ПРЕЗ 2006 г.

(The papers are listed in alphabetic order of the journals.)

1. Научни публикации в списания и поредици

1.1. В чужбина

1. R.N. Nickolov, B.V. Donkova, K.I. Milenova and D.R. Mehandjiev,
"Porous texture of CuO prepared from copper oxalate precursor"
Adsorption Science and Technology, **24**, 497–505 (2006).
2. O. Bozhkov, C. Tzvetkova and E. Russeva,
"Distribution and determination of Pb, Cd, Bi and Cu in the sea brine system:
solution - colloidal particles – biota"
Annali di Chimica, **6**, 435–442 (2006).
3. M. Neshkova, V. Nikolova and V. Petrov,
"New real-time analytical applications of electrochemical quartz crystal
microbalance. Stoichiometry and phase composition monitoring of electrodeposited
thin chalcogenide films"
Analytica Chimica Acta, **573/574**, 34–40 (2006).
4. P. Konova, M. Stoyanova, A. Naydenov, St. Christoskova and D. Mehandjiev,
"Catalytic oxidation VOCs and CO by ozone over alumina supported cobalt
oxide"
Appl. Catal., A: General, **298**, 109–114 (2006).
5. Tz. Venkov, K. Fajerweg, L. Delannoy, Hr. Klimev, K. Hadjiivanov and C.
Louis,
"Effect of the activation temperature on the state of gold supported on titania: an
FTIR spectroscopic study"
Appl. Catal., A: General, **301**, 106–114 (2006).
6. V. Idakiev, T. Tabakova, A. Naydenov, Z.-Y. Yuan and B.-L. Su,
"Gold catalysts supported on mesoporous zirconia for low-temperature water–gas
shift reaction"
Appl. Catal., B: Environ., **63**, 178–186 (2006).
7. B. Grbic, N. Radic, B. Markovic, P. Stefanov, D. Stoychev and Ts. Marinova,
"Influence of manganese oxide on the activity of Pt/Al₂O₃ catalyst for CO and
n-hexane oxidation"
Appl. Catal., B: Environ., **64**, 51–56 (2006).
8. H. Birgersson, M. Boutonnet, F. Klingstedt, D. Yu. Murzin, P. Stefanov and A.
Naydenov,
"An investigation of a new regeneration method of commercial aged three-way
catalysts"
Appl. Catal., B: Environ., **65**, 93–100 (2006).
9. P. Stefanov, N. Minkovski, I. Balchev, I. Avramova, N. Sabotinov and Ts.
Marinova,

- "XPS studies of short pulse laser interaction with copper"
Applied Surface Science, **253**, 1046–1050 (2006).
10. I. Avramova, D. Stoychev and Ts. Marinova,
"Characterization of a thin $\text{CeO}_2\text{-ZrO}_2\text{-Y}_2\text{O}_3$ films electrochemical deposited on stainless steel"
Applied Surface Science, **253**, 1365–1370 (2006).
11. I. Nedkov, R.E. Vandenberghe, Ts. Marinova, Ph. Tailhades, T. Merodiiska and I. Avramova,
"Magnetic structure and collective Jahn-Teller distortions in nanostructured particles of CuFe_2O_4 "
Applied Surface Science, **253**, 2589–2596 (2006).
12. E. Atanassova, D. Spasov, A. Paskaleva and K. Kostov,
"Composition of Ta_2O_5 stacked films on N_2O - and NH_3 -nitrated Si"
Applied Surface Science, **253**, 2841–2851 (2006).
13. L. Radev, M. Khristova, D. Mehandjiev and B. Samuneva,
"Sol-gel Ag + Pd/ SiO_2 as a catalyst for reduction of NO with CO"
Catalysis Letters, **112**, 181–186 (2006).
14. Tz. Venkov, Hr. Klimev, M.A. Centeno, J.A. Odriozola and K. Hadjiivanov,
"State of gold on an $\text{Au/Al}_2\text{O}_3$ catalyst subjected to different pre-treatments: an FTIR Study"
Catal. Comm., **7**, 308–313 (2006).
15. N. Petrova, D. Todorovsky, D. Kovacheva and M. Milanova,
"Synthesis and characterization of Al- and Y-Al-citrates as potential precursors for YAlO_3 "
Central European Journal of Chemistry, **4**, 632–645 (2006)
16. M. M. Milanova, D.S. Todorovsky, C.C. Balarew, N.L. Minkova and K.I. Ivanova,
"Influence of complexation on the composition of equilibrium phases in the system of $\text{Ce}_2(\text{SO}_4)_3\text{-La}_2(\text{SO}_4)_3$ "
Central European Journal of Chemistry, **5**, 13–19 (2006).
17. N. Kassabova, D. Stoyanova, D. Vladov, D. Mehandjiev and D. Shishkov,
"Spent Pd catalyst-component for oxide catalysts designed for CO oxidation and NO reduction"
Chemical Engineering Journal, **120**, 107–111 (2006).
18. M. Stoyanova, P. Konova, A. Naydenov, P. Nikolov, St. Christoskova and D. Mehandjiev,
"Alumina supported nickel oxide for ozone decomposition and catalytic ozonation of CO and VOC's"
Chemical Engineering Journal, **122**, 41–46 (2006).
19. Tz. Mihaylov, N. Trendafilova, I. Kostova, I. Georgieva and G. Bauer,
"DFT modeling and spectroscopic study of metal-ligand binding mode in La(III)

- complex of coumarin-3-carboxylic acid"
Chem. Phys., **327**, 209–219 (2006).
20. I. Georgieva, N. Tredafilova,
"Comprehensive DFT and MO studies on glyoxilic acid oxime and related ions in gas phase and solution: conformations, basicities and acidities"
Chem. Phys., **321**, 311–324 (2006).
21. M. Atanasov, C.A. Daul, M.-M. Rohmer and T. Venkatachalam,
"A DFT based Ligand Field study of the EPR spectra of Co(II) and Cu(II) porphyrins"
Chem. Phys. Lett., **427**, 449–454 (2006).
22. M. Atanasov, P. Comba, Y.D. Lampeka, G. Linti, T. Malcherek, R. Miletich, A.I. Prikhodko and H. Pritzkow,
"Encapsulation of cyanometalates by a tris-macrocyclic ligand tricopper(II) complex-syntheses, structural variation and magnetic exchange coupling pathways"
Chem. –Europ. J. Chem., **12**, 737–748 (2006).
23. R. Alcántara, G. Ortiz, P. Lavela, J.-L. Tirado, R. Stoyanova and E. Zhecheva,
"EPR, NMR and electrochemical studies of surface-modified carbon microbeads"
Chemistry of Materials, **18**, 2293–2301 (2006).
24. E. Stoyanova, D. Nikolova, D. Stoychev, P. Stefanov and Ts. Marinova,
"Effect of Al and Ce oxide layers on OC4004 stainless steel on its corrosion characteristics in acid media"
Corr. Sc., **48**, 4037–4052 (2006).
25. B. Markovsky, D. Kovacheva, Y. Talyosef, M. Gorova, J. Grinblat and D. Aurbach,
"Studies of nanosized $\text{LiNi}_{0.5}\text{Mn}_{0.5}\text{O}_2$ -layered compounds produced by self-combustion reaction as cathodes for lithium-ion batteries"
Electrochemical and Solid-State Letters, **9**, A449-A453 (2006).
26. N. Niagolova, Sh. McElmurry, Th. Voice, D. Long, E. Petropoulos, I. Havezov, K. Chou and V. Ganev,
"Nitrogen species in drinking water indicate potential exposure pathway for Balkan Endemic Nephropathy "
Environmental Pollution, **134**, 229–237 (2006).
27. M. Atanasov, P. Comba, S. Förster, G. Linti, T. Malcherek, R. Miletich, A. Prikhodko and H. Wadepohl,
"Tuning of inter- versus intrachain magnetic interactions in cyano-bridged $\text{Ni}^{\text{II}}/\text{M}^{\text{III}}$ (M=Cr, Fe, Co) chain complexes"
Inorg. Chem., **45**, 7722–7735 (2006).
28. J.L. Bobet, E. Grigorova, B. Chevalier, M. Khrussanova and P. Peshev,
"Hydrogenation of CeNi: hydride formation, structure and magnetic properties,
Intermetallics" **14**, 208–212 (2006).
29. Tz. Mihaylov, I. Georgieva, G. Bauer, I. Kostova, I. Manolov and N. Trendafilova,
"Theoretical study of the substituent effect on the intramolecular hydrogen bonds

- in di-(4-hydroxycoumarin)derivatives"
In. J. Quant.Chem., **106**, 1304–1315 (2006).
30. E. Grigorova, M. Khristov, M. Khrussanova and P. Peshev,
"Addition of 3d-metals with formation of nanocomposites as a way to improve the hydrogenation characteristics of Mg₂Ni"
J. Alloys Comp., **414**, 298-301 (2006).
31. D. Klissurski, M. Mancheva, R. Iordanova, G. Tyuliev and B. Kunev,
"Mechanochemical synthesis of nanocrystalline nickel molybdates"
J. Alloys Comp., **422**, 53–57 (2006).
32. S. Uzunova, I. Uzunov, D.Kovacheva, A. Momchilov and B. Puresheva,
"A Low-temperature method for synthesis of active electrode materials for Li-batteries. Part B: Synthesis of lithium iron oxides Li_xFe_yO_z"
Journal of Applied Electrochemistry, **36**, 1333–1339 (2006).
33. T.G. Vladkova, P.D. Dineff, D.N. Gospodinova and I. Avramova,
"Wood flour: new filler for the rubber processing industry. IV. Cure characteristics and mechanical properties of natural rubber compounds filled by non-modified or corona treated wood flour"
J. Appl. Polymer Sci., **101**, 651–658 (2006).
34. T. Mineva, R. Nathaniel, K.L. Kostov and W. Widdra,
"Two bonding configurations of acetylene on Si(001)-(2x1): A combined high-resolution electron energy loss spectroscopy and density functional theory study"
Journal of Chemical Physics, **125**, 194712/1–194712/12 (2006).
35. M. Atanasov, P. Comba, B. Martin, G. Rajaraman and H. Rohwer,
"DFT Models for Cu(II) bispidine complexes: structure, stabilities, isomerism, spin distribution and spectroscopy"
(invited contribution) M.Atanasov, P.Comba, B.Martin, G.Rajaraman, H.Rohwer,
Journal of Computational Chemistry, **27**, 1263–1277 (2006).
36. R. Stoyanova, E. Zhecheva, R. Alcántara and J.L. Tirado,
"Changes in local Ni/Mn environment in layered LiMg_xNi_{0.5-x}Mn_{0.5}O₂ (0 ≤ x ≤ 0.10) after electrochemical extraction and reinsertion of lithium"
Journal of Materials Chemistry, **16**, 359–369 (2006).
37. A. Bachvarova-Nedelcheva, Y. Ivanova, Y. Dimitriev and R. Iordanova,
"Phase equilibrium and glass formation in the SeO₂-Ag₂O-MoO₃ system"
J. Mater. Sci., **41**, 6107–6111 (2006).
38. Tz. Venkov, M. Dimitrov and K. Hadjiivanov,
"FTIR Spectroscopic study of the nature and reactivity of NO_x compounds formed on Cu/Al₂O₃ after coadsorption of NO and O₂"
J. Mol. Catal., A:Chemical, **243**, 8–16 (2006).
39. M. Mihaylov, A. Penkova, K. Hadjiivanov and M. Daturi,
"Chromium nitrosyl complexes in Cr-ZSM-5: An FTIR Spectroscopic study"
J. Mol. Catal., A:Chem., **249**, 40–46 (2006).
40. M.A. Centeno, K. Hadjiivanov, Tz. Venkov, Hr. Klimev and J.A. Odriozola,
"Comparative study of Au/Al₂O₃ and Au/CeO₂-Al₂O₃ catalysts"

- J. Mol. Catal., A:Chem.*, **252**, 142–149 (2006).
41. D.G. Stoilova,
"Hydrogen bonding systems in metal(II) formate dehydrates, $M(\text{HCOO})_2 \cdot 2\text{H}_2\text{O}$ ($M = \text{Mg, Mn, Co, Ni, Cu}$ and Zn). Double matrix infrared spectroscopy"
Journal of Molecular Structure, **798**, 141–148 (2006).
42. G. Aygin, E. Atanassova, K. Kostov and R. Turan,
"XPS study of pulsed Nd: YAG laser oxidized Si"
Journal of Non-Crystalline Solids, **352**, 3134–3139 (2006).
43. V. Bojinov and D. Simeonov,
"Synthesis of novel bifunctional polymer stabilizers—a combination of HALS and UV absorber"
J. Photochem. Photobiol., A: Chem., **180**, 205–212 (2006).
44. M. Atanasov, P. Comba and C.A. Daul,
"DFT Studies on the magnetic exchange across the cyanide bridge"
Journal of Physical Chemistry, Part A, **110**, 13332–13340 (2006).
45. M. Mihaylov, J. C. Fierro-Gonzalez, H. Knözinger, B. C. Gates and K. I. Hadjiivanov,
"Formation of non-classical gold carbonyls in zeolite NaY: Characterization by infrared spectroscopy"
J. Phys. Chem., B110, 7695–7701 (2006)
46. M. Mihaylov, E. Ivanova, Thibault-Starzyk, M. Daturi, L. Dimitrov and K. Hadjiivanov,
"New types of non-classical iridium carbonyls formed in Ir-ZSM-5: An FTIR spectroscopy investigation"
J. Phys. Chem., B110, 10383–10389 (2006).
47. A. Mihaylova, K. Hadjiivanov, S. Dzwigaj and M. Che,
"Remarkable effect of the preparation technique on the state of cobalt ions in BEA zeolites evidenced by FTIR spectroscopy of adsorbed CO and NO, TPR and XRD"
J. Phys. Chem., B110, 19530–19536 (2006).
48. E. Zhecheva, R. Stoyanova, R. Alcántara, P. Lavela and J.-L. Tirado,
"EPR studies of Li deintercalation from LiCoMnO_4 spinel-type electrode active material"
Journal of Power Sources, **159**, 1389–1394 (2006).
49. R.M. Rojas, J.M. Amarilla, L. Pascual, J.M. Rojo, D. Kovacheva and K. Petrov,
"Combustion synthesis of nanocrystalline $\text{LiNi}_y\text{Co}_{1-2y}\text{Mn}_{1+y}\text{O}_4$ spinels for 5V cathode materials. Characterization and electrochemical properties"
Journal of Power Sources, **160**, 529–535 (2006).
50. E. Zhecheva, M. Mladenov, R. Stoyanova and S. Vassilev,
"Coating technique for improvement of the cycling stability of LiCo/NiO_2 electrode materials"
Journal of Power Sources, **162**, 823–829 (2006).

51. I. Georgieva, I. Kostova, N. Trendafilova, V.K. Rastogi, G. Bauer and W. Kiefer, "Raman, FT-IR and DFT study of ortho-, meta- and para-pyridinomethylene substituted di-4-hydroxycoumarin and their Ln(III) complexes" *J. Raman Spectrosc.***37**, 742–754 (2006).
52. N. Trendafilova, I. Kostova, V.K. Rastogi, I. Georgieva, G. Bauer and W. Kiefer, "Characteristic Raman and IR bands of 3,3'-benzylidenebis(4-hydroxycoumarin) and its Ce(III), La(III) and Nd(III) complexes" *J. Raman Spectrosc.***37**, 808–815 (2006).
53. R. Stoyanova, E. Zhecheva and S. Vassilev, "Mn⁴⁺ Environment in layered Li[Mg_{0.5-x}Ni_xMn_{0.5}]O₂ oxides monitored by EPR spectroscopy" *Journal of Solid State Chemistry* **179**, 378–388 (2006).
54. P. Peshev, S. Pechev, V. Nikolov, P. Gravereau, J.-P. Chaminade, D. Binev and D. Ivanova, "Studies on some ternary oxyborates of the Na₂O-Me₂O₃-B₂O₃ (Me = rare earth or aluminum) systems: Synthesis, structure and crystal growth" *J. Solid State Chem.*, **179**, 2834–2849 (2006).
55. E. Shinova, E. Zhecheva and R. Stoyanova, "Formation of LiAl_yNi_{1-y}O₂ solid solutions under high and atmospheric pressure" *J. Solid State Chem.*, **179**, 3151–3158 (2006).
56. V. Koleva and D. Mehandjiev, "Characterisations of M(H₂PO₄)₂H₂O (M - Mn, Co, Ni) and their in situ thermal decomposition by magnetic measurements" *Materials Research Bulletin*, **41**, 469–477 (2006).
57. M. Beshkova, Z. Zakhariyev, M. Abrashev, J. Burch and R. Yakimova, "Properties of AlN epitaxial layers on 6H-SiC substrate grown by sublimation in argon, nitrogen and their mixtures" *Mater. Sci. Eng.*, **B**, **129**, 228–231 (2006).
58. Ts. Marinova, A. Tsanev and D. Stoychev, "Characterization of mixed yttria and zirconia thin films" *Mater. Sci. Eng.*, **B**, **130**, 1–4 (2006).
59. I. Balchev, N. Minkovski, Ts. Marinova, M. Shipochka and N. Sabotinov, "Composition and structure characterization of aluminum after laser ablation" *Mater. Sci. Eng. B*, **135**, 108–112 (2006).
60. G. Gentsheva, P. Tzvetkova, P. Vassileva, L. Lakov, O. Peshev and E. Ivanova, "Analytical characterization of a silica gel sorbent with thioetheric sites" *Microchimica Acta*, **156**, 303–306 (2006).
61. E. Ivanova, K. Hadjiivanov, S. Dzwigaj and M. Che, "FT-IR Study of CO and NO adsorption on a VSiBEA zeolite" *Microporous Mesoporous Mater.*, **89**, 69–77 (2006).
62. G. Djanovski, M. Beshkova, S. Velinova, D. Mollov, P. Vlaev, D. Kovacheva, K. Vutova and G. Mladenov,

- "Deposition of CeO₂ films on Si(100)substrate by electron beam evaporation"
Plasma Processes and Polymers, **3**, 197–200 (2006).
63. M. Mihaylov, K. Hadjiivanov and H. Knözinger,
"Effect of Cr and Pt Promoters on the Surface Properties of Tungstated Zirconia: FTIR Spectroscopy of Probe Molecules (CO and NO)"
Physical Chemistry & Chemical Physics, **8**, 407–417 (2006).
64. Y. Dimitriev, E. Kashchieva, D. Ilieva and R. Iordanova,
"Glass formation and microheterogeneous structure in the B₂O₃-MoO₃-Me_nO_m (Me=W, Mn, Cu) systems"
Phys. Chem. Glasses: Europ. J. Glass Sci. Technol., **B, 47**, 435–440 (2006).
65. R.S. Iordanova, M.K. Milanova and K.L. Kostov,
"Glass formation in the MoO₃-CuO system"
Phys. Chem. Glasses: Eur. J. Glass Sci. Technol., **B,47**, 631–637 (2006).
66. V. Getova, R.P. Bontchev, D. Mehandjiev and P.R. Bontchev,
"Complexes of 1-[2-[2-hydroxy 3-(propylamino) propoxy] phenyl]-3-phenyl-1-propanone (propafenone) with copper(II): Crystal structure of the mononuclear Cu (II) complex with propafenone"
Polyhedron, **25**, 2254–2260 (2006).
67. V. Z. Vassileva and P.P. Petrova,
"Взаимодействие в системах M(HCOO)₂-CS(NH₂)₂-H₂O (Me = Mg, Mn, Cd) при 25°C"
Russian Journal of Inorganic Chemistry, **51**, 814–818 (2006).
68. M. Neshkova, E. Pancheva and V. Pashova,
"A new generation of CN- sensing silver chalcogenide membranes for FIA application. I. Ag_{2+□}Se_{1-x}Te_x electrodeposited membrane"
Sensors and Actuators, Part B, **119**, 625–631 (2006).
69. I. Georgieva, N. Trendafilova and G. Bauer,
"Spectroscopic and theoretical study of Cu(II), Zn(II), Ni(II), Co(II) and Cd(II) complexes of glyoxilic acid oxime"
Spectrochimica Acta, Part A, **63**, 403–415 (2006).
70. A. Detcheva and K.H. Grobecker,
"Determination of Hg, Cd, Mn, Pb and Sn in seafood by solid sampling Zeeman atomic absorption spectrometry"
Spectrochimica Acta, Part B, **61**, 454–459 (2006).
71. N. Boshkov, K. Petrov and G. Rajchevski,
"Corrosion behaviour and protective ability of multilayer galvanic coatings of Zn and Zn-Mn alloys in sulfate containing medium"
Surface and Coating Technology, **200**, 5995–6001 (2006).
72. D. Nikolova, E. Stoyanova, D. Stoychev, P. Stefanov and Ts. Marinova,
"Anodic behaviour of stainless steel covered an electrochemically deposited Ce₂O₃-CeO₂ film"
Surface and Coatings Technology, **201**, 1559–1567 (2006).

73. K.L. Kostov, M. Gsell, W. Widdra, S.H. Payne, H.J. Kreuzer and D. Menzel,
"Lateral interactions and nonequilibrium in adsorption and desorption. Part 1.
Experimental results for (2×2) -(3O + NO)/Ru(0 0 1)"
Surface Science, **600**, 4650–4659 (2006).
74. K.H. Grobecker and A. Detcheva,
"Validation of mercury determination by solid sampling Zeeman atomic absorption
spectrometry and a specially designed furnace"
Talanta, **70**, 962–965 (2006).
75. S. Dolder, S.-X. Liu, X. Guégano, M. Atanasov, C.A. Daul, C. Leiggenger, A.
Hauser and S. Decurtins,
"Preparation and characterization of 3-(4,5)-ethylenedithio-1,3-dithiol-2-ylidene)
naphthopyranone: a luminescent redox-active donor-acceptor compound"
Tetrahedron, **62**, 11106–11111 (2006).
76. T. Boiadjieva, K. Petrov, G. Raichevski and M. Monev,
"Changes in composition and structure of electrodeposited Zn–Cr alloy coatings
resulting in corrosion treatment"
Transactions of the Institute of Metal Finishing, **84**, 313–319 (2006).
77. O. Bozhkov, C. Tzvetkova, L. Borisova, V. Ermakov and V. Ryabukhin,
"Study of Rhenium Accumulation in Plants"
Trends in Inorganic Chemistry, **9**, 1–10 (2006).
78. D. Reinen, M. Atanasov and W. Massa,
"The binding properties of terminal and bridging fluoride and of aqua ligands – a
semiempirical vibronic coupling and DFT study of mixed-ligand manganese(III)
complexes (invited review)"
Z. Anorg. Allg. Chem., **632**, 1375–1398 (2006).
79. T. Trendafilova, D. Kovacheva, K. Petrov and A. Hewat,
"Cati-bottom: 0; text-indent:9px; margin-left:0px" align="left">

1.2. В България

1. P. Simeonova, D. Simeonov and N. Abadzieva,
"Environmetric assessment of monitoring
data quality: A case study of aerosol and
rainwater collectoin"
*Annuaire de l'Université de Sofia, Faculté de
Chimie*, **98–99**, 245–248 (2006).
2. G. Stefanov, D. Danailov and G. Avdeev,
"Microstructure and mechanical properties of
microcrystalline Al-Fe-V-Si alloys with high Si
content and
addition of Mg"
Bulgarian Chemical Communications, **38**, 117–
120 (2006).

3. S. Uzunova, I. Uzunov, A. Momchilov, B. Puresheva and S. Vasilev,
"Effect of the microstructure on the electrochemical behaviour of α -Fe₂O₃ anodic materials for lithium ion batteries prepared by low external temperature method"
Bulgarian Chemical Communications, **38**, 280–283 (2006).
4. P. Tsvetkova, E. Russeva, P. Vassileva, I. Havezov, L. Lakov, O. Peshev and E. Tsekulov,
"Preparation and characterization of two silica-containing iron(III) oxide sorbents for arsenic removal"
Bulgarian Chemistry and Industry, **76**, 79–82 (2006).
5. V. Petkova, I. Uzunov and E. Simeonova-Ivanova,
"Phase composition and structure of the contact zone of high-strength slag concrete"
Comptes Rendus de l'Academie Bulgare des Sciences, **59**, 609–701 (2006).
6. V. Getova, D. Mehandjiev, V. Skumryev and P.R. Bontchev,
"A binuclear copper(II) complex of the antihypertensive drug labetalol: synthesis and properties"
Journal of the University of Chemical Technology and Metallurgy, **41**, 193–198 (2006).
7. I. Spasova, G. Ivanov, V. Georgescu and D. Mehandjiev,
"Complete oxidation of methyl- ethyl ketone and toluene over supported copper-chromium and cobalt-chromium oxide catalysts"
Journal of the University of Chemical Technology and Metallurgy, **41**, 225–228 (2006).
8. L. Aleksandrov, R. Iordanova, M.Milanova and Y. Dimitriev,
"Glass formation in the MoO₃-Nd₂O₃-Me_nO_m system, (Me=Ba, Bi)"
Journal of the University of Chemical Technology and Metallurgy, **41**, 303–306 (2006).
9. M. Krapchanska, Y. Dimitriev and R. Iordanova,
"Phase formation in the Bi₂O₃-TiO₂-SiO₂"

Journal of the University of Chemical Technology and Metallurgy, **41**, 307–310 (2006).

10. T. Todorov, D. Rabadjieva and S. Tepavitcharova,
"New Thermodynamic Database for More Precise Simulation of Metal Species in Natural Waters"
Journal of the University of Chemical Technology and Metallurgy, **41**, 97-102 (2006).
11. M. Beshkova, Z. Zahariev, M. Abrashev, D. Burch and R. Yakimova,
"Алуминиев нитрид, като материал за микроелектрониката"
Microelectronics, **5/6**, 22–25 (2006).

2. Full text scientific publications in collections from congresses and conferences, as well as in subject collections

2.1. В чужбина

1. S. Tepavitcharova, D. Rabadjieva, A. Kovacheva, Chr. Balarew and M. Galvez-Morros,
"Sustainable utilization of waste sea-salt brines"
in: *Proceedings of the 6th ANQUE International Congress of Chemistry and Sustainable Development*, Puerto de la Cruz, Tenerife, Spain, Vol. 2, pp. 84–85 (2006).
2. Chr. Tzvetkova, O. Bozhkov and A. Kovacheva,
"New possibility for rhenium extraction by green plants from contaminated soils and waters"
in: *Proceedings of the 6th ANQUE International Congress of Chemistry and Sustainable Development*, Puerto de la Cruz, Tenerife, Spain, Vol. 2, pp. 271–272 (2006).
3. S. Tepavitcharova, T. Todorov, D. Rabadjieva and M. Galvez-Morros,
"Modeling of inorganic chemical species in natural waters as a tool for environmental impact evaluation"
in: *Proceedings of the 6th ANQUE International Congress of Chemistry and Sustainable Development*, Puerto de la Cruz, Tenerife, Spain, Vol. 2, pp. 736–737 (2006).

2.2. В България

1. D. Nikolova, E. Stoyanova, D. Stoychev, I. Avramova and P. Stefanov,

- "Stability of the passive state of stainless steel OC4004 improved by additionally electrodeposited oxide layers in sulphuric acid solution"
in: *Book of papers, Nanostructured Materials in Electroplating, International Workshop*, Sandanski, Bulgaria, pp. 127–131 (2006).
2. R. Nathaniel, T. Mineva, K.L. Kostov and W. Widdra,
"Adsorption of ethylene on Si(100)-(2x1) reconstructed surface: molecular modeling and HREELS studies"
in: *Nanoscience and Nanotechnology*, Vol. 6 (E. Balabanova and I. Dragieva, Eds.), Heron Press, Sofia, pp. 77–80 (2006)
3. E. Krалева, A. Spojakina, G. Avdeev, K. Jiratova and L. Petrov,
"Nanophase systems dispersed in mesoporous MCM-41 as of catalysts for hydrodesulfurization"
in: *Nanoscience and Nanotechnology*, Vol. 6 (E. Balabanova and I. Dragieva, Eds.), Heron Press, Sofia, pp. 160–164 (2006).
4. I. Uzunov, S. Uzunova, D. Kovacheva, B. Puresheva and M. Mancheva,
"Preparation and properties of Li-Fe-Si-O xerogel a new anode material for lithium-ion batteries"
in: *Nanoscience and Nanotechnology*, Vol. 6 (E. Balabanova and I. Dragieva, Eds.), Heron Press, Sofia, pp. 150–152 (2006).
5. S. Uzunova, A. Momchilov, I. Uzunov, D. Kovacheva and S. Vassilev,
"Lithium- manganese–iron oxide as a negative electrode materialfor lithium-iron batteries"
in: *Nanoscience and Nanotechnology*, Vol. 6 (E. Balabanova and I. Dragieva, Eds.), Heron Press, Sofia, pp. 153–155 (2006).
6. N. Stoichev, S. Yaneva, S. Stavrev, K. Petrov and P. Kovachev,
"Nano-structured layers in rapidly solidified Al-Fe-V-Si alloys"
in: *Nanoscience and Nanotechnology*, Vol. 6 (E. Balabanova and I. Dragieva, Eds.), Heron Press, Sofia, pp. 193–195 (2006).

7. D.D. Radev, M. Marinov, V. Tumbalev and S. Vasilev,
"Nickel-titanium nanostructured shape memory alloys"
in: *Nanoscience and Nanotechnology*, Vol. 6 (E. Balabanova and I. Dragieva, Eds.),
Heron Press, Sofia, pp. 215–217 (2006).
8. Tz. Bojadjieva, D. Kovacheva, G. Raichevski and M. Monev,
"Electrodeposition of nanoscaled Zn-Cr alloys"
in: *Nanostructured Materials in Electroplating* (D. Stoychev, E. Valova, I. Krastev and N. Atanassov, Eds.),
Publishing House of the "St. Kl. Ohridski"
University of Sofia, pp.156–159 (2006).
9. P. Petrova, N. Velitchkova, I. Havezov and N. Daskalova,
"Determination of Pt, Pd, Rh, Ba and Pb in automotive catalytic converters by ICP AES"
in: *Proceedings of the International Scientific Conference*,
June, 8-11, Blagoevgrad, Bulgaria, vol. 2, pp. 121–126 (2006).
10. Й. Пеловски, И. Хавезов
"Актуални проблеми на химическата защита при преработката, приложението и съхранението на опасни химически вещества"
in: *Proceedings of the First Scientific-Practical Conference Management in Emergencies and Protecting the Population*,
10 November 2005, Academic Publishing House "Marin Drinov", Sofia, pp. 15–19 (2006).
11. O. Bozhkov, C. Tzvetkova and E. Russeva,
"Test methods for monitoring of traces of Pb, Bi, Cd, Cu in Black Sea Lye"
in: *Proceedings of the International Scientific Conference*,
June, 8-11, Blagoevgrad, Bulgaria, vol. 2, pp. 127–133 (2006).

3. Scientific books

1. Д. Л. Цалев, Е. Д. Русева, П. К. Петров,
Английски съкращения в аналитичната химия,
Унив. изд. "Св. Климент Охридски", София,
2006.

4. Textbooks and other training aids

1. E. Vassileva, D. Ivanova, A. Detcheva, Ch. Tchanev, V. Kmetov, TrainMiC – training in metrology in chemistry, *EUR Report 20841 BG*, Luxembourg: Office for Official Publications of the European Communities (2006).

5. Popular science and publicistic editions

1. А. Дечева, Семинар, Принципи и приложение на метрологията в химията, *Новини / “Химия и индустрия”* 77 (2006) 84-85.

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