

СПИСЪК НА ПУБЛИКАЦИИТЕ НА УЧЕНИТЕ ОТ ИОНХ ПРЕЗ 2008 г.

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

1. Научни публикации в списания и поредици

1. L. Aleksandrov, R. Iordanova, Y. Dimitriev, K. Handa, J. Ide and M. Milanova
"Glass formation in the $\text{MoO}_3\text{-La}_2\text{O}_3\text{-Nd}_2\text{O}_3$ system"
Advanced Materials Research, **39-40**, 37-40 (2008).
2. A. Bachvarova-Nedelcheva, R. Iordanova and Y. Dimitriev
"Structural models of selenite glasses containing Ag^+ and Cu^{2+} ions"
Advanced Materials Research, **39-40**, 45-48 (2008).
3. R. Iordanova, L. Aleksandrov, A. Stoyanova and Y. Dimitriev
"Glass formation and structure of the glasses in the $\text{MoO}_3\text{-Nd}_2\text{O}_3\text{-Bi}_2\text{O}_3$ system"
Advanced Materials Research, **39-40**, 73–76 (2008).
4. Y. Ivanova and Y. Vueva
"Silicon oxycarbide glasses from gel hybrid structures"
Advanced Materials Research, **39-40**, 77–80 (2008).
5. R. Iordanova, M. Milanova, A. Stoyanova and Cv. Iliev
"Crystallization of glasses in the $\text{MoO}_3\text{-Bi}_2\text{O}_3$ system"
Advanced Materials Research, **39-40**, 391–394 (2008).
6. S. Petrovic, A. Terlecki-Baricevic, L. Karanovic, P. Stefanov, M. Zdujic, V. Dondur, D. Paneva, I. Mitov and V. Rakic
"LaMO₃ (M = Mg, Ti, Fe) perovskite type oxides: Preparation, characterization and catalytic properties in methane deep oxidation"
Applied Catalysis B: Environmental, **79**, 186–198 (2008).
7. F. Romero-Sarria, A. Penkova, L.M.Martinez T., M.A. Centeno, K. Hadjiivanov and J.A. Odriozola
"Role of water in the CO oxidation reaction on Au/CeO₂: Modification of the surface properties"
Applied Catalysis B: Environmental, **84**, 119–124 (2008).
8. S. Anastasova, M. Milanova, E. Kashchieva, H. Funakubo, T. Kamo, N. Grozev, P. Stefanov and D. Todorovsky
"Morphology of sol-gel produced composite films for optical oxygen sensors"
Applied Surface Science, **254**, 1545–1558 (2008).
9. T. Novakovic, N. Radic, B. Grbic, V. Dondur, M. Mitric, D. Randjelovic, D. Stoychev and P. Stefanov
"The thermal stability of porous alumina /stainless steel catalyst support obtained

- by spray pyrolysis"
Applied Surface Science, **255**, 3049–3055 (2008).
10. I. Tomov, S. Vassilev and P. Tzvetkov
"Accounting for secondary extinction in a novel X-ray absorption method used for thickness measurements of thin foils"
Archives of Metallurgy and Materials, **53**, 265–270 (2008).
11. L. Ljutzkanov, I. Stambolova, V. Blaskov, S. Vassilev, V. Petkova, Ts.Tsacheva and D. Mehandjiev
"Synthesis of nanosized TiO₂ particles on activated carbon"
Bulgarian Chemical Communications, **40**, 109–112 (2008).
12. D. Guergova, E. Stoyanova, D. Stoychev, G. Atanasova, I. Avramova and P. Stefanov
"Influence of calcination of stainless steel OC4004 covered with alumina or ceria carrier layers on their passive state in different acid media"
Bulgarian Chemical Communications, **40**, 227–238 (2008).
13. M. Mladenov, P. Zlatilova, R. Raicheff, S. Vassilev, N. Petrov, K. Belov, V. Trenev and D. Kovacheva
"Synthesis and characterization of novel nanostructured carbon for supercapacitors on the basis of biomaterials"
Bulgarian Chemical Communications, **40**, 360–365 (2008).
14. M. Markova-Velichkova, R. Iordanova, Y.Dimitriev and D. Klissurski
"Metodi za sintez na metalni vanadati"
Bulgarian Chemistry and Industry, **79**, 14–20 (2008).
15. T. Novakovic, N. Radic, B.Grbic, Ts.Marinova, P. Stefanov and D. Stoychev
"Oxidation of n-hexane over Pt and Cu-Co oxide catalysts supported on a thin-film zirconia/stainless steel carrier"
Catalysis Communications, **9**, 1111–1118 (2008).
16. R. Kefirov, E. Ivanova, K. Hadjiivanov, S. Dzwigaj and M.Che
"FTIR characterization of Fe³⁺-OH groups in Fe-H-BEA zeolite: Interaction with CO and NO"
Catalysis Letters, **125**, 209–214 (2008).
17. A. Naydenov, P. Konova, Pen. Nikolov, F. Klingstedt, N. Kumar, D. Kovacheva, P. Stefanov and R. Stoyanova
"Decomposition of ozone on Ag/SiO₂ catalyst for abatement of waste gases emissions"
Catalysis Today, **137**, 471–474 (2008).
18. B.V. Donkova, K.I. Milenova and D.R. Mehandjiev
"Investigation on the catalytic activity of doped low-percentage oxide catalysts Mn/ZnO obtained from oxalate precursor"
Central European Journal of Chemistry, **6**, 115–124 (2008).

19. M. Mihaylov, E. Ivanova, Y. Hao, K. Hadjiivanov, B.C. Gates and H. Knözinger,
"Oxidation by CO₂ of Au⁰ species on La₂O₃-supported gold clusters"
Chemical Communications, 175–177 (2008).
20. D. Klissurski, Kr. Ivanov, D. Dimitrov and M. Mancheva
"Catalytic oxidation of methanol on Au/CeO₂ catalyst"
Comptes Rendus de l'Academie Bulgare des Sciences, **61**, 193–196 (2008)
21. Iv. Mitov, D. Klissurski and Chr. Minchev
"Catalytic decomposition of methanol on Au/Fe₂O₃ catalysts"
Comptes Rendus de l'Academie Bulgare des Sciences, **61**, 1003–1006 (2008)
22. P. Nickolov, K. Milenova and D. Mehandjiev
"Decomposition of ozone over pure and doped with Cu and Mn zinc oxide"
Comptes Rendus de l'Academie Bulgare des Sciences, **61**, 1127–1132 (2008).
23. D. Radev, M. Marinov and C. Kissov
"New routes for synthesis of nickel-based dental alloys"
Comptes Rendus de l'Academie Bulgare des Sciences, **61**, 1133–1138 (2008).
24. V. Bojinov, D. Simeonov and N. Georgiev
"A novel blue fluorescent 4-(1,2,2,6,6-pentamethylpiperidin-4-yloxy)-1,8-naphthalimide pH chemosensor based on photoinduced electron transfer"
Dyes and Pigments, **76**, 41–46 (2008).
25. V. Bojinov, I. Panova and D. Simeonov
"Design and synthesis of polymerizable, yellow-green emitting 1,8-naphthalimides containing built-in s-triazine UV absorber and hindered amine light stabilizer fragments"
Dyes and Pigments, **78**, 101–110(2008).
26. P. Simeonova, D. Simeonov and L. Spasov
Ecological Chemistry and Engineering, Part A, **15**, 521–534 (2008).
27. S. Wang, M. Neshkova and W. Miao
"EQCM study of the ECL quenching of the tris(2,2'-bipyridyl)ruthenium(II)/tris-n-propylamine system at a Au electrode in the presence of chloride ions"
Electrochimica Acta, **53**, 7661 (2008).
28. A. Detcheva and K.H. Grobecker
"Determination of trace elements in aquatic plants by means of solid sampling Zeeman atomic absorption spectrometry (SS-ZAAS)"
Environmental Chemistry Letters, **6**, 183–187 (2008).
29. I. Boevski, M. Milanova, N. Velichkova, I. Havezov, S. Velichkov and N. Daskalova
"Inductively Coupled Plasma Atomic Emission Spectrometry –Accuracy of Analytical Results and Detection Limits in the Determination of Trace Elements in Soils and Sediments"
Eurasian Journal of Analytical Chemistry, **3**, 19–33 (2008).

30. A. Detcheva and K.H. Grobecker
"Validation of Cadmium Determination in Polyethylene Reference Materials by means of Solid Sampling Zeeman Atomic Absorption Spectrometry" *Eurasian Journal of Analytical Chemistry*, **3**, 70–78 (2008).
31. P. Petrova, S. Velichkov, V. Stoyanova, J. Fisak, I. Havezov and N. Daskalova
"Inductively Coupled Plasma Atomic Emission Spectrometry - Air Quality Monitoring"
Eurasian Journal of Analytical Chemistry, **3**, 134–150 (2008).
32. B. Koleva and E. Ivanova
"Flow injection analysis with atomic spectrometric detection"
Eurasian Journal of Analytical Chemistry, **3**, 183–206 (2008).
33. M. Atanasov, P. Comba and C.A. Daul
"Combined ligand field and density functional theory analysis of the magnetic anisotropy in oligonuclear complexes based on Fe^{III}-CN-M^{II} exchange-coupled pairs"
Inorganic Chemistry, **47**, 2449–2463 (2008).
34. M. Atanasov, C. Busche, P. Comba, F. El Hallak, B. Martin, G. Rajaraman, J. van Slageren and H. Wadepohl
"Trinuclear {M₁}CN{M₂}₂ complexes (M₁ = Cr^{III}, Fe^{III}, Co^{III}; M₂ = Cu^{II}, Ni^{II}, Mn^{II}). Are single molecule magnets predictable?"
Inorganic Chemistry, **47**, 8112–8125 (2008).
35. N. Petrova, D. Todorovsky, S. Angelova and D. Mehandjiev
"Synthesis and characterization of cerium citric and tartaric complexes"
Journal of Alloys and Compounds, **454**, 491–500 (2008).
36. Ts. Mandzhukova, M. Khrussanova, E. Grigorova, P. Stefanov, M. Khristov and P. Peshev
"Effect of NiCo₂O₄ additives on the hydriding properties of magnesium"
Journal of Alloys and Compounds, **457**, 472–476 (2008).
37. Z. Zakhariiev, M. Marinov, T. Penyashki and P. Tsokov
"Simultaneous powdery boronaluminizing of steel stable in aluminum melts"
Journal of Alloys and Compounds, **459**, 501–503 (2008).
38. B. Drenchev, T. Spassov and D. Radev
"Influence of alloying and microstructure on the electrochemical hydriding of TiNi-based ternary alloys"
Journal of Applied Electrochemistry, **38**, 437–444 (2008).
39. Tz. Boiadjieva, D. Kovacheva, L. Lyutov and M. Monev
"Deposition of Zn-Cr alloy coatings from sulfate electrolyte: Effect of polypropylene glycol 620 and glycine and combinations thereof"
Journal of Applied Electrochemistry, **38**, 1435–1443 (2008).

40. D. Tzankov, D. Kovacheva, K. Krezhov, R. Puźniak, A. Wiśniewski, E. Svab and M. Mikhov
"Magnetic properties of $\text{Bi}_{0.5}\text{Sr}_{0.5}\text{Fe}_x\text{Mn}_{1-x}\text{O}_3$ ($0 \leq x \leq 0.7$)"
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41. E. L. Uzunova, H. Mikosch and G. Nikolov
"Electronic structure of oxide, peroxide, and superoxide clusters of the 3d elements: A comparative density functional study"
Journal of Chemical Physics, **128**, 094307–094315 (2008).
42. I. Spassova, M. Khristova, R. Nickolov and D. Mehandjiev
"Novel application of depleted fullerene soot (DFS) as support of catalysts for low-temperature reduction of NO with CO"
Journal of Colloid and Interface Science, **320**, 186–193 (2008).
43. E. Grigorova, M. Khristov, M. Khrussanova and P. Peshev
"Hydrogen sorption characteristics of the composites 90 wt. % Mg (MgH_2) - 10 wt.% $\text{V}_{0.855}\text{Ti}_{0.095}\text{Fe}_{0.05}$ "
Journal of Materials Science, **43**, 5336–5341 (2008).
44. Y. Pekounov and O. Petrov
"Bone resembling apatite by amorphous-to-crystalline transition driven self-organisation"
Journal of Materials Science: Materials in Medicine, **19**, 753-759 (2008).
45. Tz. Mihaylov, N. Trendafilova and I. Georgieva
"DFT-based molecular modeling and vibrational study of the La(III) complex of 3,3'-(benzylidene)bis(4-hydroxycoumarin)"
Journal of Molecular Modelling, **14**, 353–366 (2008).
46. D. Stoilova, M. Wildner, D. Marinova and M. Georgiev
"Infrared spectroscopic study of SO_4^{2-} ions included in $\text{K}_2\text{Me}(\text{CrO}_4)_2 \cdot 2\text{H}_2\text{O}$ (Me = Mg, Cd) and crystal structure of $\text{K}_2\text{Cd}(\text{CrO}_4)_2 \cdot 2\text{H}_2\text{O}$ "
Journal of Molecular Structure, **889**, 12–19 (2008).
47. D. Stoilova, M. Wildner, D. Marinova and M. Georgiev
"Vibrational behavior of SO_4^{2-} ions included in $\text{K}_2\text{Zn}(\text{CrO}_4)_2 \cdot 2\text{H}_2\text{O}$ and crystal structure of $\text{K}_2\text{Zn}(\text{CrO}_4)_2 \cdot 2\text{H}_2\text{O}$: A new structure type containing kröhnkite-type chains"
Journal of Molecular Structure, **892**, 239–245 (2008).
48. M. Krapchanska, Y. Dimitriev, A. Bachvarova - Nedelcheva and R. Iordanova
"Phase formation in the section Bi_2MoO_6 - $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ by the melt quenching method"
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49. E.L. Uzunova, H. Mikosch and J. Hafner
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50. D. Panayotov and J.R.Morris
"Catalytic degradation of a chemical warfare agent simulant: Reaction mechanisms on TiO₂-supported Au nanoparticles"
Journal of Physical Chemistry, Part C, **112**,7496–7502 (2008).
51. M. Mihaylov, E. Ivanova, Y. Hao, K. Hadjiivanov, H. Knözinger and B. Gates
"Gold supported on La₂O₃: Structure and reactivity with CO₂ and implications for CO oxidation catalysis"
Journal of Physical Chemistry, Part C, **112**,18973–18983 (2008).
52. C. Balarew, E.V. Zagnit'ko, J. Eysseltova and J.-J.Counieux
"IUPAC-NIST solubility data series. 85. Transition and 12-14 main group metals, lanthanide, actinide, and ammonium halates"
Journal of Physical Chemistry, Reference Data, **37**, 933–1118 (2008).
53. P.Stefanov, M.Shipochka, P.Stefchev, Z.Raicheva, V.Lazarova and L.Spassev
"XPS characterization of TiO₂ layers deposited on quartz plates"
Journal of Physics: Conference Series, **100**, article 012039 (2008).
54. P. Vitanov, P. Stefanov, A. Harizanova and T. Ivanova
"XPS characterization of thin (Al₂O₃)_x(TiO₂)_{1-x} films deposited on silicon"
Journal of Physics: Conference Series, **100**, article 012036 (2008).
55. P. Stefanov, G. Atanasova, E. Manolov, Z. Raicheva and V.Lazarova
"Characterization of SnO₂ for sensing applications"
Journal of Physics: Conference Series, **100**, article 082046 (2008).
56. G. Beshkov, D. Spassev, V. Krastev, P. Stefanov, S. Georgiev and S. Nemska
"XPS study of BN_x nanolayers prepared by low pressure rapid thermal annealing in ammonia"
Journal of Physics: Conference Series, **103**, article 012046 (2008).
57. M. Beshkova, B. Blagoev, D. Kovacheva, G. Mladenov and T. Nurgaliev
"Deposition and characterization of high temperature superconducting YBa₂Cu₃O_{7-δ} films obtained by DC magnetron sputtering and thermal annealing modification"
Journal of Physics, Conference Series, **113**, article 012021(2008).
58. G. Gentscheva, P. Vassileva, P. Tzvetkova, L. Lakov, O. Peshev and E. Ivanova,
"Activated carbon sorbent with thioetheric sites-preparation and characterization"
Journal of Porous Materials, **15**, 331–334 (2008).
59. P. Vassileva, P. Tzvetkova, L. Lakov and O. Peshev,
"Thiouracil modified activated carbon as a sorbent for some precious and heavy metal ions"
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60. V. Nikolova, P. Iliev, K. Petrov, T. Vitanov, E. Zhecheva, R. Stoyanova, I. Valov and D. Stoychev,

- "Electrocatalysts for Bifunctional Oxygen/Air Electrodes"
Journal of Power Sources, **185**, 727–733 (2008).
61. L. V. Borisova, V. V. Ermakov, V. A. Ryabukhin, I. V. Bykov and O. D. Bozhkov,
"Rastitelnye Bioconcentratory ultramicroelementa reniya i sposoby ego
izvlecheniya"
Journal of the Problems of Biogeochemical and Geochemical Ecology, **1**, 33–38
(2008).
62. M. Georgiev, V.A. Karadjova, D.M. Marinova and D.G. Stoilova,
"Study on the hydrates of beryllium sulfate and selenate: thermal analysis, X-ray
diffraction and infrared spectroscopy"
Journal of the University of Chemical Technology and Metallurgy, **43**, 139–148
(2008).
63. V.A. Karadjova, M. Georgiev and D. Stoilova,
"Solubility in the three-component systems BeSeO_4 - MeSeO_4 - H_2O (Me = Co,
Ni, Cu, Zn)"
Journal of the University of Chemical Technology and Metallurgy, **43**, 418–422
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64. I. Kostova N. Trendafilova and G. Momekov,
"Theoretical, spectral characterization and antineoplastic activity of new lanthanide
complexes"
Journal of Trace Elements in Medicine and Biology, **22**, 100-111 (2008).
65. M. Uzunova-Bojnova, D. Dimitrov, D. Radev, A. Bojinova and D.Todorovsky,
"Effect of the mechanoactivation on the structure, sorption and photocatalytic
properties of titanium dioxide"
Materials Chemistry and Physics, **110**, 291–298 (2008).
66. Y. Dimitriev, A. Bachvarova - Nedelcheva and R. Iordanova,
"Glass formation tendency in the system SeO_2 - Ag_2O - B_2O_3 "
Materials Research Bulletin, **43**, 1905–1910 (2008).
67. R. Kefirov, A. Penkova, K. Hadjiivanov, S. Dzwigaj and M. Che,
"Stabilization of Cu^+ ions in BEA zeolite: Study by FTIR spectroscopy of
adsorbed CO and TPR"
Microporous and Mesoporous Materials, **116**, 180–187(2008).
68. M. M. Atanasov, P. Comba, C. A. Daul and F. Neese,
"The Ligand-Field paradigm: Insight into Electronic Properties of Transition-metal
Complexes Based on Calculations of Electronic Structure"
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69. K. Hadjiivanov,
"Application of Isotopically Labeled IR Probe Molecules for Characterization of
Porous Materials"

- in: *Ordered Porous Solids- Recent Advances and Prospects* (V. Valtchev, S. Mintova and M.Tsapatis, Eds.) Elsevier, Amsterdam, 2008, pp. 263-281.
70. A. Losev,
"Wave models of non-crystallographic structures"
Philosophical Magazine, **88**, 201–208 (2008)
71. S. Ivanova, E. Zhecheva and R. Stoyanova,
"EPR study of Ni distribution in $\text{LaNi}_y\text{Co}_{1-y}\text{O}_3$ solid solutions ($0 \leq y \leq 0.25$)"
Physica Status Solidi, Part A, **205**, 1685–1689 (2008).
72. T. Ruskov, I. Spirov, H.W Green, D. Kovacheva, P. Tzvetkov, M. Georgieva and L. Dobrzhinetskaya,
"Mössbauer milliprobe studies of small mineral samples with a silicon drift detector"
Physics and Chemistry of Minerals, **35**, 485–491 (2008).
73. Ch. Hagendorf, S. Sachert, B. Bochmann, K. Kostov and W. Widdra,
"Growth, atomic structure, and vibrational properties of MnO ultrathin films on Pt(111)"
Physical Reviews B, **77**, 075406/1–075406/9 (2008).
74. V. Georgescu, D. Bombos, R. Scurtu, I. Spassova, D. Mehandjiev and L.Dumitrache,
"Complete oxidation of harmful organic compounds over alumina supported Cu-Mn mixed oxide catalysts"
Revista de Chimie, **59**, 243–246 (2008).
75. E. Shinova, R. Stoyanova, E. Zhecheva, G.F. Ortiz, P. Lavela and J.L. Tirado,
"Cationic Distribution and Electrochemical Performance of $\text{LiCo}_{1/3}\text{Ni}_{1/3}\text{Mn}_{1/3}\text{O}_2$ Electrodes for Lithium-Ion Batteries"
Solid State Ionics, **179**, 2198–2208 (2008).
76. I. Kolibarska, S. Velichkov and N. Daskalova,
"Spectral interferences in the determination of traces of scandium, yttrium and rare earth elements in "pure" rare earth matrices by inductively coupled plasma atomic emission spectrometry. Part VII - Terbium, Dysprosium, Holmium and Thulium"
Spectrochimica Acta, Part B, **63**, 603–606 (2008).
77. D. Nickolova, E. Stoyanova, D. Stoychev, I. Avramova and P. Stefanov,
"Protective effect in sulfuric acid media of alumina and ceria oxide layers electrodeposited on stainless steel"
Surface Coatings Technology, **202**, 1876–1888 (2008).
78. A. Surleva and M. Neshkova
"A new generation of cyanide ion-selective membranes for flow injection application. Part III. A simple approach to the determination of toxic metal-cyanide complexes without preliminary separation"
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79. M.P. Gabrashanska, M.Y.Manga-Gonzalez, S. Emidou-Pollet, M. Anisimova and S. Tepavitcharova,
"Effect of 2Gly.ZnCl₂.2H₂O on antioxidant status in rats under fasciolosis"
Trace Elements and Electrolytes, **25**, 199–205(2008).
80. P. Vassileva, A. Detcheva, R. Nickolov,
"Multi-component adsorption of Cu(II), Mn(II), Ni(II), Fe(III), Cr(III) and Au(III) onto lignite-coal-based activated carbons"
Transactions of the Universities of Kosice, **2/2008**., 1-7 (2008).

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

1. I. Havezov,
"Bulgarian Academy of Sciences in the European Research Area"
in: *Emerging Regional Cooperation. South-east European Academies of Sciences and Humanities in the ERA, ALLEA/All European Academies*, Amsterdam, pp. 63–71 (2008).
2. V. Nikolova, P. Iliev, K. Petrov, T. Vitanov, E. Zhecheva, R. Stoyanova, I. Valov and D. Stoychev,
[ELECTROCATALYSTS AND ELECTRODE DESIGN FOR BIFUNCTIONAL OXYGEN/AIR ELECTRODES](#)
in: *Functionalized Nanoscale Materials, Devices and Systems, Book Series: NATO Science for Peace and Security, Series B- Physics and Biophysics* (A. Vaseashta and I. Milhailescu, Eds.)305–310 (2008).
3. V. Stoyanova, P. Petrova, J.Fisak, N. Daskalova, Ts. Tsacheva and M. Marinov,
"Analysis of heavy elements in air, rime and fog from Milešovka and Kopisty"
in: *Hydrologie Maleho Povodi* (M. Sir, M. Tesar and L. Lichner, Eds.)Ustav po hydrodynamiku AVCR, Praha, Czech Republik, 277–283 (2008).
4. I. Kostova, N. Trendafilova, I. Georgieva, V. K. Rastogi and W. Kiefer,
"Experimental and Theoretical Studies on Biologically Active Lanthanide (III) Complexes">
in: *Perspectives in Vibrational Spectroscopy* (V. K. Vaidyan and V. S. Jayakumar, Eds.), American Institute of Physics 978-0-7354-0606-3/08, V. **1075**, pp. 47–51 (2008).
5. C. Tzvetkova and O. Bozhkov,
"Study of Rhenium Bioaccumulation in Lucerne (Medicago) and its Extraction from Plants and Purification from Main Ash Elements"
in: *Proceedings of the 2nd International Conference on Waste Management, Water Pollution, Air Pollution, Indoor Climate(WWAI'08)*, Corfu, Greece, pp. 82–85 (2008).
6. O. Bozhkov, C. Tzvetkova and T. Blagoeva,
"An Approach to Rhenium Phytorecovery from Soils and Waters in Ore Dressing

- Regions of Bulgaria"
in: *Proceedings of the 2nd International Conference on Waste Management, Water Pollution, Air Pollution, Indoor Climate*(WWAI'08), Corfu, Greece, pp.262–265(2008).
7. A. Penkova, J. M. Martinez, A. M. Centeno, K. Hadjiivanov and J.A. Odriozola,
"Preparación y caracterización de nanopartículas de oro soportadas sobre esferas monodispersas de silica funcionalizadas con grupos aminos"
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8. E. Ivanova, M. Mihaylov, K. Hadjiivanov and H. Knözinger,
"FTIR Study of Low-Temperature CO Adsorption on EMT Zeolite Exchanged with Alkali-Earth Cations"
in: *Advanced Micro- and Mesoporous Materials* (K. Hadjiivanov, V. Valtchev, S. Mintova and G. Vayssilov, Eds.) Heron Press, Sofia, pp. 295–303(2008).
9. R. Kefirov, M. Mihaylov, M. Che and K. Hadjiivanov,
"FTIR Study of the Interaction of Ni(CO)₄ with H-ZSM-5 and Ni-H-ZSM-5 Zeolites"
in: *Advanced Micro- and Mesoporous Materials* (K. Hadjiivanov, V. Valtchev, S. Mintova and G.Vayssilov,Eds.) Heron Press, Sofia, pp. 304–312 (2008).
10. A. Mihaylova, P. Stefanov, K. Hadjiivanov, S. Dzwigaj and M. Che,
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in: *Proceedings of the International conference on Nanoscale Phenomena and Structures*, (D.Kashchiev, Eds.) Academic Publishing House Marin Drinov, pp. 305–306 (2008).