

Списък с пълно библиографско описание на забелязаните цитати

1. **НАУЧНО-ПРИЛОЖНИ ИЗСЛЕДВАНИЯ ВЪРХУ РАЗРАБОТВАНЕ НА ЧУСТВИТЕЛНИ КЪМ МЕТАЛНИ ЙОНИ ИОН-СЕЛЕКТИВНИ МЕМБРАНИ, ПОСРЕДСТВОМ ФОТОДОТИРАНЕ ИЛИ ОТГРЯВАНЕ, НА ПОСЛЕДОВАТЕЛНО ИЛИ ЕДНОВРЕМЕННО, ВАКУУМНО ИЗПАРЕНИ, ТЪНКИ СЛОЕВЕ ОТ ХАЛКОГЕНИДНИ СЪГЛА И ПОДХОДЯЩИ ДОПАНТИ**

Включени в дисертацията

2. R. Tomova, J. Assa, R. Stoycheva-Topalova, A. Buroff, **As₂S₃ and AgI Thin Layers as Ion Sensitive membranes, *J. Non-Cryst. Solids*, **260**, 195-198, 1999**

1. Irina Humenyuk, **Development des microcapteurs chimiques chemfet's pour l'analyse de l'eau**, These D, Institut National des sciences appliques de Toulouse, 2005
2. P. Petkov, **Multicomponent germanium chalcogenide glasses**, *Journal of Optoelectronics and Advanced Materials*, **4** (3), 747 – 750, 2002
3. M.J.Schoning, J.P.Klook, **About 20 years of silicon-based thin-film sensors with chalcogenide glass materials for heavy metal analysis: Technological aspects of fabrication and miniaturization**, *Electroanalysis*, **19**, 2029-2038, 2007
4. P.Ewen, **Applications of the Photodissolution Effect in Chalcogenide Glasses in A.Kolobov**, Photoinduced metastability in amorphous semiconductors, Wiley-VCH, GmbH&Co, KGaA, p.365-382, 2003
5. Zuzana Gerna, **Thin Films of Ge-As-S system preparing by spin coating technique**, Thesis Work, Department of General and Inorganic Chemistry, Faculty of Chemical technology, University of Pardubice, p.37, 2009
6. Monika Turek aus Rybnik, **Nachweis von Cyanid und Schwermetallen mittels Chip-basierter Chemo- und Biosensoren**, Dissertation zur Erlangung des Doktorgrades der Naturwissenschaften (Dr. rer. nat.) dem Fachbereich Pharmazie der Philipps-Universität Marburg, p. 16, 2010

3. R. Tomova, G.Spasov, R. Stoycheva-Topalova, A. Buroff, **Copper-doped vacuum evaporated chalcogenide layers as sensitive ion-selective membranes, *J. Non-Cryst. Solids*, **266-269**, 985-988, 2000**

7. P.Petkov, **Multicomponent germanium chalcogenide glasses Multicomponent germanium chalcogenide glasses**, *Journal of Optoelectronics and Advanced Materials*, **4** (3), 747 – 750, 2002
8. V.Vassilev, S.Boycheva, **Chemical sensors with chalcogenide glassy membranes**, *Talanta*, **67**, 20-27, 2005
9. Zhang H., Du P., Weng W., Han G., **Influence of doping on Fe³⁺ sensitive films of Ge-Sb-Se-Fe(Ni)**, *J.Vac.Sci. Tech.*, **25**, 61-63, 2005

10. Men H., Wu G. L., Li X. Y. Wang P., **Experimental studies on Chalcogenide glass Sensors**, *Chinese Journal of Sensors and Actuators*, **19**, 1015-1019, 2006
11. Vinatier P., Hamon Y., chapter 11: **Applications of Ion Transport in Disordered Solids: Electrochemical Micro-ionics**, in: Charge Transport in Disordered Solids with Applications in Electronics, Sergei Baranovski Faculty, Published Online: 7 NOV 2006 DOI: 10.1002/0470095067.ch11
12. M.J.Schoning, J.P.Klook, **About 20 years of silicon-based thin-film sensors with chalcogenide glass materials for heavy metal analysis: Technological aspects of fabrication and miniaturization**, *Electroanalysis*, **19**, 2029-2038, 2007
13. P.Ewen, **Applications of the Photodissolution Effect in Chalcogenide Glasses in A.Kolobov**, Photoinduced metastability in amorphous semiconductors, Wiley-VCH, GmbH&Co, KGaA, p.365-382, 2003
14. P.Petkov, Y.Nedeva, E.Lilov, **Direct current conductivity in thin glassy (GeSe₄)_{1-x} Gax films**, *Nanoscience&Nanotechnology* **7**, eds. E.Balabanova, I.Dragieva, Heron Press, Sofia, 2007, 93-96
15. Monchev B., P.Petkov, V.Boev, T.Petkova, **Optical Behaviours of Novel amorphous Ge-S-AgI Layers**, *Materials Science Forum*, V. **567-568**, 201-204, 2008
16. Мончев Б. П. „Стъкла от системата Ge-S-AgI – получаване, свойства, приложения”. Дисертация, ХТМУ – София, (2007)
17. Zuzana Gerna, **Thin Films of Ge-As-S system preparing by spin coating technique**, Thesis Work, Department of General and Inorganic Chemistry, Faculty of Chemical technology, University of Pardubice, p.37, 2009
18. Todorov R., Tasseva J., Spassov G., Petkov K., **Auger-electron spectroscopy investigation of thin Ag-As-S-Se films**, *Journal of Physics*, Conference Series, **223** (1), art. no. 012040, 2010
19. J.Tasseva, R.Todorov, Tz. Babeva, K.Petkov, **Structural and optical characterization of Ag photo-doped thin As₄₀S_{60-x}Se_x films for non-linear applications**, *Journal of Optics*, **12** (6), art. no. 065601, 2010
4. R. Tomova, R. Stoicheva - Topalova, A. Buroff, **Thin film sensors based on evaporated chalcogenide glasses**, *Journal of materials science - materials in electronics*, **14** (10-12), 2003, 845-847
20. V.Vassilev, S.Boycheva, **Chemical sensors with chalcogenide glassy membranes**, *Talanta*, **67**, 20-27 (2005)
21. M.J.Schoning, J.P.Klook, **About 20 years of silicon-based thin-film sensors with chalcogenide glass materials for heavy metal analysis: Technological aspects of fabrication and miniaturization**, *Electroanalysis*, **19**, 2029-2038, 2007
22. S.Baranowski, **Charge Transport in Disordered Solids with Applications in Electronics**, **2006**, Wiley Series in Materials for Electronic and Optoelectronic Applications

23. Boudouh, H., Guessasma, S., Essehli, R., Aissat, **A Monte carlo simulation of ion-exchange response of copper sulfide ion selective electrode for metal pollutant detection**, *Journal of the Electrochemical Society* **159** (3) 2012, Pages D148-D154
24. Dohare, C., Mehta, N., Kumar, A., **Metal-induced effects on the glass transition kinetics of glassy Se₇₀Te₃₀ alloy**, *Phase Transitions* **84** (11-12), 1 November 2011, Pages 1064-1074

6. R. Tomova, G. Spasov, R. Stoycheva-Topalova, A. Buroff, **AES Study of Ion-selective Membranes Based on Chalcogenide Glasses**, *J. Non-Cryst. Solids*, **338-340**, 582-585, 2004

25. M.J. Schoning, J.P. Klook, **About 20 years of silicon-based thin-film sensors with chalcogenide glass materials for heavy metal analysis: Technological aspects of fabrication and miniaturization**, *Electroanalysis*, **19**, 2029-2038, 2007
26. Monchev, B., Petkov, P., Boev, V., Petkova T., **Optical behaviors of novel amorphous Ge - S - AgI layers**, *Materials Science Forum*, **567-568**, 201-204, 2008
27. Todorov R., Tasseva J., Spasov G., Petkov K., **Auger-electron spectroscopy investigation of thin Ag-As-S-Se films**, *Journal of Physics, Conference Series*, **223** (1), art. no. 012040, 2010
28. Monika Turek, **Nachweis von Cyanid und Schwermetallen mittels Chip-basierter Chemo und Biosensoren**, **Dissertation zur Erlangung des Doktorgrades der Naturwissenschaften (Dr. rer. nat.) dem Fachbereich Pharmazie der Philipps-Universität Marburg**, p. 16, 2010

След дисертацията

11. R. Tomova, G. Spasov, R. Stoycheva-Topalova, A. Buroff, **Cu Ion-selective Membranes Based on Chalcogenide Glasses**, *Sensors and Actuators B*, **103**, 277-283 (2004)

29. B. Monchev, P. Petkov, V. Boev, T. Petkova, **Optical Behaviours of Novel Amorphous Ge-S-AgI Layers**, *Materials Science Forum*, **567-568**, 201-204, 2008
30. M.J. Schoning, J.P. Klook, **About 20 years of silicon-based thin-film sensors with chalcogenide glass materials for heavy metal analysis: Technological aspects of fabrication and miniaturization**, *Electroanalysis*, **19**, 2029-2038, 2007
31. F.O. MÉAR, M. ESSI, M.-F. GUIMON, A. PRADEL, **PROCESSING AND CHARACTERIZATION OF THIN FILM Cu_x(Ge₂₈Se₆₀Sb₁₂)_{1-x} IONSELECTIVE ELECTRODE MEMBRANE**, *Chalcogenide Letters*, **5**, No. 6, June 2008, p. 117 – 124
32. Мончев Б. П. „Стъкла от системата Ge-S-AgI – получаване, свойства, приложения”. Дисертация, ХТМУ – София (2007)
33. Кормош Ж., Лагановський А., Жбанков Д., **Cu⁺² - селективний електрод на основі складного халькогениду SnBi₂Te₄**, *Науковий вісник Волинського державного університету імені Лесі Українки Хімічні науки* **13** (2007) 40-44

34. Monika Turek, **Nachweis von Cyanid und Schwermetallen mittels Chip-basierter Chemo-und Biosensoren**, Dissertation zur Erlangung des Doktorgrades der Naturwissenschaften (Dr. rer. nat.) dem Fachbereich Pharmazie der Philipps-Universität Marburg, p. 16, 2010
35. Mario Buzuk, **Razvoj Senzora za odredivanje ionski vrsta u vodenom mediju**, Disertacija, Svenciliste u Zagrebu Fakultet Kemijskog Inzenjerstva i tehnologije, Zagreb, Rujan 2010, p.40
36. JW Bridge, **High resolution in-situ monitoring of hyporheic zone biogeochemistry**, Science Report SC030155/SR3, Published by:Environment Agency, Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, BS32 4UD, © Environment Agency July 2005,Tel: 01454 624400 Fax: 01454 624409, www.environment-agency.gov.uk, p. 13, ISBN:1 84432 424 9,
37. Boycheva, S., Vassilev, V., **Multicomponent chalcogenide glasses: Advanced membrane materials for chemical sensors and nanosensors NATO Science for Peace and Security Series B: Physics and Biophysics** 2011, Pages 175-180
38. Boudouh, H., Essehli, R., Guessasma, S., Aissat A., **Monte Carlo simulation to reveal the copper dissolution kinetics of an ion selective electrode based on copper sulfide**, *Materials Chemistry and Physics* , **133** (1) 383-391, 2012
39. Boudouh, H., Essehli, R., Guessasma, S., Aissat A., **Monte carlo simulation of ion-exchange response of copper sulfide ion selective electrode for metal pollutant detection** *Journal of the Electrochemical Society* , **159** (3), Pages D148-D154, 2012
40. Brinić, S. , Buzuk, M., Bralić, M., Buljac, M., Jozić, D., **Cu (II) ion-selective electrode based on mixed silver-copper sulfide: Phase structure and electrochemical properties**, *International Journal of Electrochemical Science* **7** (6) 5217-5230 (2012)
41. Singh, A., **Recent Advances in Amorphous Semiconductors—Correlative Study on Se-Based Metallic Chalcogenide Alloys**, *Reviews in Advanced Sciences and Engineering*, **1** (4) (2012) 292-301
12. Tomova, R., Stoycheva-Topalova, R., Buroff, A., **Ion-selective membranes based on chalcogenide glasses**, *Journal of Optoelectronics and Advanced Materials*, **7** (3), pp. 1399-1406 (2005)
42. Monchev, B., Filenko, D., Nikolov, N., Popov, C., Ivanov, T., Petkov, P., Rangelow, I.W., **Investigation of the sorption properties of thin Ge-S-AgI films deposited on cantilever-based gas sensor**, *Applied Physics A: Materials Science and Processing* **87** (1), pp. 31-36,(2007), DOI: 10.1007/s00339-007-3864-5
43. V.Vassilev, K.Tomova, S.Boycheva, **Pb(II)-ion-selective electrodes based on chalcogenide glasses**, *J. Non-Crystalline Solids*, **353**, 2779-2784, 2007
44. F. Vázquez, **Sintesis y reactividad de complejos que contienen los fragmentos Pt-S y/o Pt-H: Aplicación a la reaction de desulfuración del tiofeno**, Thesis Doctoral, Universitat Autonomia, Barcelona, 2007, p.3

45. V.Vassilev, K.Tomova, V.Parvanova, **The glass-forming region in the system GeSe₂-PbSe-PbTe**, *Materials Chemistry and Physics* **114** (2-3), pp. 874-878, 2009
46. Венгер Е.Ф., Мельничук А.В., Стронский А.В., **Фотостимулированные процессы в халькогенидных стеклообразных полупроводниках и их практическое применение**, Академперіодика, 2007, р. 239
47. D. Filenko, Thesis Doctoral, **Chemical Gas Sensors Based on Functionalized Self-Actuated Piezo-Resistive Cantilevers**, University of Kassel, Germany, 2008, p.106
48. V. Vassilev, K. Tomova, S. Boycheva, V. Parvanova, **Sn-ion-selective electrodes based on chalcogenide glasses for water media analyzes**, *Journal of Non-Crystalline Solids* **355** (2009) 1566–1570
49. Kolev, K., Popov, C., Petkova, T., Petkov, P., Mihailescu, I.N., Reithmaier, J.P., **Complex (As₂S₃)(100-x)(AgI)_x chalcogenide glasses for gas sensors**, *Sensors and Actuators, B: Chemical* **143** (1) 395-399, 2009
50. Kassem, M., Le Coq, D., Fourmentin, M., Hindle, F., Bokova, M., Cuisset, A., Masselin, P., Bychkov, E., **Synthesis and properties of new CdSe-AgI-As₂Se₃ chalcogenide glasses**, *Materials Research Bulletin*, **46** (2) 210-215 (2011), ISSN: 00255408
51. Шпак О.І., Студеняк І.П., Шпак І.І., **Вплив композиційного розупорядкування на оптико-рефрактометричні параметри скловидних халькогенідних сплавів системи Ag-As-Se**, *PHYSICS AND CHEMISTRY OF SOLID STATE* **12** (4) (2011) 980-984
ISSN 1729-4428
52. Shpak, O.I., Pop, M.M., Shpak, I.I., Studenyak, I.P., **Refractometric studies of chalcogenide glasses in Ag-As-S system**, *Optical Materials* **35** (2) 297-299 (2012)

2. ПОЛУЧАВАНЕ НА ОРГАНИЧНИ СВЕТОИЗЛЪЧВАЩИ ДИОДИ (OLED) И ИЗУЧАВАНЕ НА ПРОМЯНАТА НА ТЕХНИТЕ СВОЙСТВА, В РЕЗУЛТАТ НА УСЪВЪРШЕНСТВАНЕ НА ДИЗАЙНА НА OLED СТРУКТУРИТЕ ЧРЕЗ ВЪВЕЖДАНЕТО НА ДОПЪЛНИТЕЛНИ ФУНКЦИОНАЛНИ СЛОЕВЕ И ДОПАНТИ

14. R.Tomova, P.Petrova, R.Stoycheva-Topalova, A.Buroff, J.Pirov, **Hole Transporting Layers for organic light emitting diodes**, *JOAM*, 9, 501-504 (2007)

53. P.Reddy, Y. Lin, H. Chang, **Synthesis of novel benzothiazole compounds with an extended conjugated system**, *Arkivoc*, 16, 113-122, 2007
54. Fulghum, T.M., Taranekar, P., Advincula, R.C., **Grafting hole-transport precursor polymer brushes on ITO electrodes: Surface-initiated polymerization and conjugated polymer network formation of PVK**, *Macromolecules*, 41, 5681-5687, 2008

17. R. Tomova, P. Petrova, A. Buroff, R. Stoycheva-Topanova, **Organic light-emitting diodes (OLEDs) – the base of next generation light-emitting devices**, *Bulgarian Chemical Communications*, 39, 247-259, 2007

55. Wang J., W.Jiang, J.Hua, G.Ding, X.Chanq G. Zang, **Effect of CBP ultrathin layer on the performance of organic electrophosphorescence devices** , *Journal of Optoelectronic Laser*, **20** (12) 1589-1591, 2009
56. M.Hanwell, T.Madison, G.Hutchison, **Charge Transport in Imperfect Organic Field Effect Transistors: Effect of Explicit Defects and Electrostatics**, *J.Phys. Chem, C*, **114**, N 48, pp. 20417-20423, (. Date 18 august, 2010)

19. R.Tomova, P. Petrova, R. Stoycheva-Topalova, **Role of Bathocuproine as hole-blocking and electron- transporting layer in Organic Light Emitting Devices**, *Phys. Status Solidi C* 7, No. 3–4, 992– 995 (2010)

57. G.Zhong, P. Fang, Y. Cao, **Organic light-emitting diodes with varying thickness of bathocuproine layer**, *Materials Science Forum*, **694** 901-9079 (2011)
58. S. Auschill, R. De Moraes, I., Lüsse, B., Gather, M.C., Leo, K., A high performance liquid chromatography method to determine phenanthroline derivatives used in OLEDs and OSCs, *Synthetic Metals* **162** (21-22) 1834-1838 (2012)

24. Petrova, P., Tomova, R., **Materials used for organic light-emitting diodes - Organic electroactive compounds** (2009) *Bulgarian Chemical Communications*,**41** (3), 211-225.

59. Vinogradova, K.A., Krivopalov, V.P., Nikolaenkova, E.B., Pervukhina, N.V., Naumov, D.Y., Sheludyakova, L.A., Bushuev, M.B., **Copper(II) and copper(I) tetrafluoroborate complexes with 4-(3,5-diphenyl-1H-pyrazol-1-yl)-6-(piperidin-1-yl)pyrimidine (L): Synthesis, structures and luminescence**, *Inorganica Chimica Acta* **386**, 116-121, 2012