



Докторант

инж. Ваня Георгиева Илчева

Телефон: 0887476434

E-mail: vania_ilcheva@yahoo.com

Адрес: 1756 София, бул. "Климент Охридски" 8
ХТМУ, катедра "Физика"

Дата на раждане: 07.06.1976 г.

Научни интереси

- Синтез и изследване на халкогенидни стъкла в обемна и тънкослойна форма
- Методи за получаване на тънки слоеве
- Оптични свойства на стъклообразни тънки слоеве, възможности за приложение.

Дисертационен труд

Тема: "Халкогенидни стъкла на основата на As-Se(S)-Ag(Sb)"

Ръководители: проф. д-р Пламен Петков – катедра "Физика", ХТМУ
проф. д-р Тамара Петкова – ИЕЕС, БАН

Период на докторантурата: 01.03.2011 г – 01.02.2014 г.

Участие в научни проекти

- Договор № X-1204 "Изследване на нови стъклообразни системи за приложение в електрохимични системи", 2002 – 2005 г.
- ВУФ 05 "Chalcogenide and oxide thin films as gas sensors", 2005 – 2008 г.
- Договор № BG051PO001/07/3.3.02-0058 "Алтернативни енергийни системи", 2008 – 2010г.

Участие в научни конференции

1. 3- rd International Conference on "Amorphous and Nanostructured Chalcogenides", Brasov, Romania, 2-6 July 2007.
2. 15-th International Summer School on Vacuum, Electron and Ion Technologies, Sozopol, Bulgaria, 17-21 September 2007.
3. NATO ASI – Nanostructured Materials for Advanced Technological Applications, Sozopol, Bulgaria, 1-12 June 2008.
4. 15th International School on Condensed Matter Physics, Varna , Bulgaria, August 31st – September 5th 2008.
5. 6th International Conference on Photo-Excited Processes and Applications, Sapporo, Hokkaido, Japan, 9-12 Sep 2008.
6. 16th International Conference on Glass and ceramics, Varna, Bulgaria, September 30th – October 5th 2008.
7. VI-th AMITECH 08, Gabrovo, 2008.
8. E-MRS 2009 Spring Meeting, Strasbourg, France, 8 - 12 June, 2009.
9. 4-th International Conference on "Amorphous and Nanostructured Chalcogenides", June 29 – July 3 2009, Constanta, Romania.
10. 7th General Conference of the BPU, 9-13 September 2009, Alexandroupolis, Greece.
11. Advanced & Inovations in SOFCs, September 13-17 2009, Katarino.

12. Sofia Electrochemical Days, 11 – 13 May, 2010, Sofia, Bulgaria.
13. NATO ASI "Nanotechnological basis of advanced sensors", 30 May-11 June 2010, Sozopol, Bulgaria.
14. 7th International Conference on Photo-Excited Processes and Applications, Copenhagen, Denmark, 15-20 August 2010.
15. 11th International Conference on the Structure of Non-Crystalline Materials, Paris, France, June 27th – July 2nd 2010.
16. VIII Научна постерна сесия за студенти, докторанти и млади учени, ХТМУ, София, 2011.
17. Seventh National Conference on Chemistry, Sofia, Bulgaria, 26–29 May 2011.
18. 17-th International Summer School on Vacuum, Electron and Ion Technologies, Sunny Beach, Bulgaria, 19 – 23 September 2011.
19. International Workshop on Oxide and Non-oxide Materials for Optoelectronics, UCTM, Sofia, Bulgaria, 21 - 22. December 2011.
20. IX Научна постерна сесия за студенти, докторанти и млади учени, ХТМУ, София, 2011.
21. 10th International Conference Solid State Chemistry, Pardubice, Czech Republic, 10 - 14 June 2012.
22. European Summer School on: "PV systems engineering and the other R.E.S.", Innovation and Intelligent Applications, Patras, Greece, 1- 12 July 2012.
23. 2nd International Conference on Optical Electronic and Electrical Materials, Shanghai, China, 05 - 07 August 2012.
24. XXII Congress of Chemists and Technologists of Macedonia, Ohrid, Macedonia, 5-9 September 2012.
25. Sofia Electrochemical Days, 10 – 13 December, 2012, Sofia, Bulgaria.

Научни публикации

1. P. Petkov, P. Ilchev, V. Ilcheva, T. Petkova, "Physico-chemical properties of Ge-Te-Ga glasses", Journal of Optoelectronic and Advanced Materials, 9 (10), 3093 (2007).
2. V. Ilcheva, V. Boev, D. Roussev, P. Petkov, T. Petkova, P. Sharlanjiev, D. Nazarova, "Photoinduced changes in As-Se-Ag amorphous films", Journal of Physics: Conference Series, 113 (2008) 012018.
3. P. Ilchev, P. Petkov, P. Sharlandjiev, A. Koserkova, V. Ilcheva, "Photoinduced changes in amorphous gallium doped GeTe₄ chalcogenides", Journal of Physics: Conference Series, 113 (2008) 012017.
4. V. Ilcheva, P. Petkov, T. Petkova, D. Roussev, "Physico-chemical characterization of nanostructured As-Se-Ag glassy materials", NATO Science for Peace and Security Series B: Physics and Biophysics, Ed.Springer, (2009) 335.
5. T. Petkova, V. Ilcheva, C. Popov, J.P. Reithmaier, G. Socol, E. Axente, I.N. Mihailescu, P. Petkov, T. Hineva, "Study of (As₂Se₃)_{100-x}Ag_x thin films prepared by PLD and VTE methods", NATO Science for Peace and Security Series B: Physics and Biophysics, Ed.Springer, (2009) 329.
6. P. Petkov, V. Ilcheva, D. Wamwangi, M. Wuttig, P. Ichev, T. Petkova, "Phase transition of gallium containing telluride thin films", Journal of Optoelectronic and Advanced Materials, 11 (9), 1261 (2009).
7. V. Ilcheva, T. Petkova, P. Petkov, V. Boev, G. Socol, F. Sima, C. Ristoscu, C. N. Mihailescu, I. N. Mihailescu, C. Popov, J. P. Reithmaier, "Spectroscopic study of (AsSe)_{100-x}Ag_x thin films", Applied Surface Science 255 (24), 9691-9694 (2009).

8. V. Ilcheva, T. Petkova, P. Petkov, V. Boev, "Optical characterization of As-Se-Ag thin films", Proc. "Advanced & Innovations in SOFCs", Katarino, September 13-17, Katarino, 1 (2009) 139.
9. P. Petkov, V. Ilcheva, P. Ilchev, T. Petkova, "Thermal studies of Ge-Te-Ga chalcogenide glasses", AIP Conference Proceedings 1203, 932-936 (2010).
10. T. Petkova, V. Ilcheva, P. Petkov, G. Socol, C. Ristoscu, F. Sima, C. N. Mihailescu, I. N. Mihailescu, C. Popov, V. Boev, J.P. Reithmaier, "Stress study of thin As-Se-Ag films obtained by vacuum thermal evaporation and pulsed laser deposition", Journal of Optoelectronic and Advanced Materials, 12 (3), 650-653 (2010).
11. V. Ilcheva, V. Boev, T. Petkova, P. Petkov, E. Petkov, G. Socol, I. N. Mihailescu, "Thin As-Se-Sb films as potential medium for optics and sensor application", NATO Science for Peace and Security Series B: Physics and Biophysics, Ed. Springer, (2011) 211.
12. T. Petkova, V. Ilcheva, E. Petkov, P. Petkov, G. Socol, F. Sima, C. Ristoscu, J.P. Reithmaier, "Optical studies of $(AsSe)_{100-x}Sb_x$ thin films", Applied Physics A: Materials Science and Processing 104 (3) , pp. 959-962.
13. V. Ilcheva, P. Petkov, T. Petkova, V. Boev, B. Monchev, "Compositional dependence of optical properties of silver containing As_2Se_3 thin films", Journal of Physics: Conference series, 356 (1) , 012028 (2011).
14. V. Ilcheva, P. Petkov, T. Petkova, B. Monchev, "Effect of antimony addition on physicochemical properties of As-Se glasses", Advances in Natural Science: Theory & Applications, 1 (1), 95-102 (2012).
15. V. Ilcheva, P. Petkov, V. Boev, and T. Petkova, "Optical properties of thermally evaporated $(As_2Se_3)_{100-x}Ag_x$ thin films", Physics Procedia, accept for publ.