



## Europass Curriculum Vitae

### Personal information and address

First name(s) / Surname(s) Teodor Ivanov Milenov  
 Address(es) 12/25 "St.st. Cyril and Methodius" Str., Pernik 2300, Bulgaria  
 Telephone(s)  
 Fax(es)

**Affiliation address(es)** Institute of Electronics, Bulgarian Academy of Sciences  
 72 Tsarigradsko Chaussee blvd. 1784 Sofia Bulgaria

E-mail [teddymilenov@abv.bg](mailto:teddymilenov@abv.bg) ; [tmilenov@ie.bas.bg](mailto:tmilenov@ie.bas.bg) ; [teddy@issp.bas.bg](mailto:teddy@issp.bas.bg)

Nationality Bulgarian

Date of birth 03.10.1960

Gender male

**Desired employment /  
Occupational field** R&D

**Work experience** 31 years

Dates 2013- present - Assoc. Prof. Institute of Electronics- Bulgarian Academy of Sciences, Laboratory "Physical problems of ion technologies"  
 2016- 2017 Head of the Laboratory "Physical problems of ion technologies"  
 2012-2013- Physicist Inst. of Electronics- Bulg. Acad. Sci. Laboratory "Physical problems of ion technologies"  
 2010 – 2012 - Assoc. Prof. European Polytechnical University, Pernik, Department of Physics and Chemistry, Center of Scientific Research  
 1987- May 2012: Laboratory of Crystal Growth, Institute of Solid State Physics, Bulgarian Academy of Sciences, Sofia, Bulgaria:  
     1987- 1989 Research Associate III degr.;  
     1989- 1997 Research Associate II degr.,  
     1997-2000 Research Associate I degr.;  
     2000- May 2012 Assoc. Professor  
     2000-2012 Assoc. Professor  
 1985-1987 Technology engineer, „Microelectronica“ Corp. , Botevgrad, Bulgaria

Type of business or sector	scientific organization																																				
<b>Education and training</b>																																					
Dates	1997																																				
Title of qualification awarded	PhD in Solid State Physics																																				
Principal subjects/occupational skills covered																																					
Name and type of organisation providing education and training	Institute of Solid State Physics, Bulgarian Academy of Sciences, Sofia, Bulgaria																																				
Dates	1985																																				
Title of qualification awarded	Dipl. Eng. in Chemistry University of Chemical Technology and Metallurgy- Sofia, Department of Chemical Technology of Semiconductors and Microelectronics, Bulgaria																																				
Principal subjects/occupational skills covered																																					
Name and type of organisation providing education and training	University of Chemical Technology and Metallurgy- Sofia, Department of Chemical Technology of Semiconductors and Microelectronics, Bulgaria																																				
<b>Personal skills and competences</b>																																					
Mother tongue(s)	Bulgarian																																				
Other language(s)																																					
Self-assessment																																					
<i>European level (*)</i>																																					
<b>Language English</b>																																					
<b>Language Russian</b>																																					
	<table border="1"> <thead> <tr> <th colspan="2">Understanding</th> <th colspan="4">Speaking</th> <th colspan="2">Writing</th> </tr> <tr> <th colspan="2">Listening</th> <th colspan="2">Reading</th> <th colspan="2">Spoken interaction</th> <th colspan="2">Spoken production</th> </tr> </thead> <tbody> <tr> <td>B1</td> <td></td> <td>B2</td> <td></td> <td>B1</td> <td></td> <td>B1</td> <td></td> <td>B2</td> <td></td> </tr> <tr> <td>B1</td> <td></td> <td>B2</td> <td></td> <td>B2</td> <td></td> <td>B2</td> <td></td> <td>B1</td> <td></td> </tr> </tbody> </table>	Understanding		Speaking				Writing		Listening		Reading		Spoken interaction		Spoken production		B1		B2		B1		B1		B2		B1		B2		B2		B2		B1	
Understanding		Speaking				Writing																															
Listening		Reading		Spoken interaction		Spoken production																															
B1		B2		B1		B1		B2																													
B1		B2		B2		B2		B1																													
	(*) <i>Common European Framework of Reference for Languages</i>																																				
Social skills and competences	Work in team																																				
Organisational skills and competences	Project management, Member of the Scientific Council of the Institute of Solid State Physics- Bulgarian Academy of Sciences: 2008- 2011; 2011 – 2014 present (see: <a href="http://www.issp.bas.bg/index-eng.html">http://www.issp.bas.bg/index-eng.html</a> )																																				

Technical skills and competences	
Computer skills and competences	MS Office, ORIGIN, TEMSLICE etc.
Artistic skills and competences	
Other skills and competences	
Driving licence	Driver class B
<b>Additional information</b>	
<b>Research interests</b>	Thin film deposition & crystal growth (Carbon Phases & Semiconductors). Structural Defects in crystals/ layers. Characterization of condensed matter: X-ray diffraction, SEM/EDAX, TEM, Raman- , IR- and XP- spectroscopy.
<b>Awards</b>	<b>Best scientific achievement in applied physics</b> of the Institute of Solid State Physics (2008): <b>T.I.Milenov</b> , "Chemical-Vapour-Deposition-Initiated Growth and Characterization of Diamond and Diamond-like Micro-Crystals", <b>Journal of Crystal Growth 310</b> (2008) 5447. <b>Best scientific achievement in applied physics</b> of the Institute of Electronics (for 2014): <b>T.I.Milenov</b> for a cycle of three studies published in <b>Optical &amp; Quantum Electronics, 47 (2015) 851-863, 901-912 and 923-935</b> . <b>Golden medal of the National Chiao-Tung University (2012), Hsin- Chu, Taiwan, Republic of China, AUGUST 2012.</b>
<b>Projects</b>	<b>2012 - 2016</b> - COST Action MP 1204 "TERA-MIR Radiation: Materials, Generation, Detection and Applications" Management Committee member (Bulgarian representative)- see: <a href="http://www.cost.eu/domains_actions/mpns/Actions/MP1204?management">http://www.cost.eu/domains_actions/mpns/Actions/MP1204?management</a> <b>1991 - 2007</b> - Team leader and principal investigator of 3 Projects, funded by the Bulgarian National Scientific Research Fund. <b>2001 - 2010</b> - Team leader of 3 joint projects, in the framework of Russian Academy of Sciences - Bulgarian Academy of Sciences Interacademical Partnership. <b>1987 - 2012</b> - Participation in more than 15 other projects.
<b>Teaching experience</b>	✓ Two lecture courses (one in Bulgarian and one in English) in General Physics. ✓ Two special lecture courses (in Bulgarian as well as in English) in Building Physics. ✓ Three MD students (1990- 1995) and one MD (2015) student. ✓ February- March 2012 - visiting professor in the Electrophysics Department, National Chiao Tung University, Hsin-Chu, Taiwan (ROC).

**LIST OF PUBLICATIONS OF**

**Dr. Teodor Ivanov Milenov, Assoc. Professor**

**1.Z. Boncheva- Mladenova, V.Vasilev, T.I. Milenov and S. Aleksandrova**

Investigation of Phase- Diagram of the CdTe- Ag<sub>2</sub>Te System

**Thermochimica Acta** 92 (1985) 591

**2.M. Gospodinov, N.Petkov, T.I. Milenov, P.Svestarov, S.Dobreva, A.Nikolov V.Tasev**

Pb<sub>5</sub>(GeO<sub>4</sub>)(VO<sub>4</sub>)<sub>2</sub> Crystals Grown by the Czochralski Method

**Comptes Rendus l'Acad. Bulg. Sci.** 42 (1989) 49

**3.M. Gospodinov, P.Svestarov, N.Petkov, T.I. Milenov**

Growth of Large Crystals of Bi<sub>12</sub>GeO<sub>20</sub> and Study of Some Physical Properties

**Bulgarian J. of Physics** 16 (1989) 520

**4.E. Anachkova, M. Gospodinov, P. Svestarov, T.I. Milenov, A. Nikolov, V. Tassev, Y.Markov, M.Limonov and G.Bruchman**

Raman Study of Pb<sub>5</sub>(GeO<sub>4</sub>)(VO<sub>4</sub>)<sub>2</sub> Crystals

**J. of Molecular Structure**, 219 (1990) 31

**5.I.V. Sabinina, A.K. Gutakovski, T.I. Milenov, Y.G. Sidorov and M.M. Gospodinov**

Observation of the Grain Boundaries in CdTe Crystals by the TEM

**Comptes Rendus l'Acad.Bulg.Sci.** 44 (1991) 21 (No.5)

**6.T.I. Milenov and M.M. Gospodinov**

Growth of CdTe Crystals by the Bridgman Method from Nearly Stoichiometric Melts

**Comptes Rendus l'Acad.Bulg.Sci.** 44 (1991) 33 (No.8)

**7.I.V. Sabinina, A.K. Gutakovski, T.I. Milenov, N.V. Lyakh, Y.G. Sidorov and M.M.Gospodinov**

Melt Growth of CdTe Crystals and Transmission Electron Microscopy Investigation of Their Grain Boundaries.

**Crystal Research and Technology** Vol.26 (1991) 967

**8.T.I. Milenov and M.M. Gospodinov**

Melt Growth of CdTe Crystals and Investigation of Their Boundaries

**Nuclear Instruments and Methods in Physical Research (A)** A322 (1992) 363

**9.T.I. Milenov and M.M. Gospodinov**

Growth of Large CdTe Crystals by the Bridgman Method

**Nuclear Instruments and Methods in Physical Research (A)** A322 (1992) 368

**10. T.I. Milenov and V.I. Dimov**

TEM Observations of Antiphase Boundaries in CdTe Crystals

**Journal of Materials Science** 31 (1996) 4693

**11.G. Beshkov, N. Velchev, N. Tzenov, T.I. Milenov and V. Lazarova**

Effect of Rapid Thermal Annealing on the Properties of Thin Carbon Films

**Materials Science and Engineering** B38 (1996) 25

**12.T.I. Milenov, P.A. Botev, E.B. Dinolova, S.G. Dobreva and M.M. Gospodinov**

Growth and Characterization of Large La<sub>1-x</sub>Pb<sub>x</sub>MnO<sub>3-δ</sub> Crystals

**Materials Science and Engineering B** 75 (2000) 1

**13. T.I. Milenov , V.I. Dimov, N.G. Khaltakova and M.M. Gospodinov**

HRTEM Observations of Σ=3 and Σ=9 Tilt about <011> Axis Grain Boundaries in Bulk CdTe Crystal

**Crystal Research and Technology**, 35 (2000) 1331

**14.T.I. Milenov and M.M. Gospodinov**

Deformational Twinning in CdTe Crystals Grown by the Bridgman Method

**Materials Science and Engineering B84** (2001) 189

**15. T.Milenov, V.Dimov, N. Khaltakova and M. Gospodinov**

HRTEM Observation of Microcrystals in CdTe Melt Grown Crystal.

**Comptes Rendus l'Acad. Bulg. Sci.** 54 (2001) 41

**16. T. I. Milenov, P. M. Rafailov, M. M. Gospodinov and P.A.Botev**

X-ray Diffraction Topography Investigation of the Core in Bi<sub>12</sub>SiO<sub>20</sub> Crystals

**Materials Research Bulletin** 37 (2002) 1651

**17. M. Veleva, T. Milenov, D. Petrova, L. Yankova, M. Gospodinov**

Dielectric Behaviour of Doped Bi<sub>12</sub>SiO<sub>20</sub> Single Crystals

**Comptes Rendus l'Acad. Bulg. Sci.** 55 (2002) 17

**18. T. I. Milenov, P. M. Rafailov, M. M. Gospodinov and P.A.Botev**

X-ray Diffraction Topography Observations of the Core in Bi<sub>12</sub>SiO<sub>20</sub> Crystals Doped with Mn

**Materials Science and Engineering B106** (2004) 148

**19. T. I. Milenov, M.N. Veleva, D.P. Petrova, M.M. Gospodinov, A. Egorisheva, A.S. Kargin, V.M. Skorikov and A.Ya. Vasil'ev**

AC- Conductivity in Bi<sub>12</sub>SiO<sub>20</sub> crystals doped with Os, Re, Rh и Ru,

**Inorganic Materials** 41, № 2 (2005) pp. 197 - 200

**20. P. M. Rafailov, T. I. Milenov, M. I. Veleva, C. Thomsen and M. M. Gospodinov**

A Raman Spectroscopic Study of Defects in Bi<sub>4</sub>Ge<sub>3</sub>O<sub>12</sub> Crystals

**Journal of Optoelectronics and Advanced Materials**, 7 (№1) (2005) pp. 473- 477

**21. T.I.Milenov**

First and Higher Order Twinning in Crystals with Diamond and Sphalerite Type Structure

**Comptes Rendus l'Acad. Bulg. Sci.** 58 (2005) 1251

**22.P. M. Rafailov, T. I. Milenov, M. N. Veleva, C. Thomsen and M. M. Gospodinov**

A Raman Spectroscopic Study of Ru, (Ru+Mn), Fe and (Al+Mn) Doped Bi<sub>4</sub>Ge<sub>3</sub>O<sub>12</sub> Crystals

**Comptes Rendus l'Acad. Bulg. Sci.** 59 (2006) 255

**23.T. I. Milenov, P. M. Rafailov, A.V. Egorysheva, V. M. Skorikov, R. Petrova, M. N. Veleva, T.D. Dudkina, C. Thomsen, A.Ya. Vasil,ev and M.M. Gospodinov,**

XRD and Raman spectroscopic study of Ru and Os doped Bi<sub>12</sub>SiO<sub>20</sub> crystals

**Journal of Optoelectronics and Advanced Materials** 9 (2007) 293.

**24.T. I. Milenov, V.I. Dimov, and M. M. Gospodinov**

TEM observation of two- dimensional defects in CdTe crystals

**Journal of Optoelectronics and Advanced Materials** 9 (2007) 289.

**25.T. I. Milenov, P. M. Rafailov, R. Petrova, Yu.F. Kargin and M. M. Gospodinov**

X- Ray Diffraction Study of a Bi<sub>4</sub>Ge<sub>3</sub>O<sub>12</sub> Crystal

**Materials Science and Engineering B- 138** (2007) 35.

**26.V. M. Skorikov, T. I. Milenov, A.V. Egorysheva, P. M. Rafailov, T.D. Dudkina, M. N. Veleva, A.Ya. Vasil,ev and M.M. Gospodinov**

An optical excitation study of Ru, Rh, Re and Os doped Bi<sub>12</sub>SiO<sub>20</sub> crystals

**Physica Status Solidi B244** (2007) 3292.

**27. T. I. Milenov, V.I. Dimov, P.M. Rafailov and M.M. Gospodinov**

Electronic Diffraction Study of Variuos Lattice Defects in a Bi<sub>4</sub>Ge<sub>3</sub>O<sub>12</sub> Crystal

**Applied Physics A** 92 (2008) 643.

**28. T.I. Milenov**

Chemical-Vapour-Deposition-Initiated Growth and Characterization of Diamond and Diamond-like Micro-Crystals

**Journal of Crystal Growth** 310 (2008) 5447.

**29. T. I. Milenov, P. M. Rafailov, G. V. Avdeev, C. Thomsen**

Chemical vapor deposition of carbon layers on Si {001} substrates

**Journal of Optoelectronics and Advanced Materials**, 11 (2009) 1273.

**30. P.M. Rafailov, T.I. Milenov, M. Monev, G.V. Avdeev, C. Thomsen, U. Dettlaff-Weglikowska and S. Roth**

Spectroscopic studies on electrochemically doped and functionalized single-walled carbon nanotubes

**Journal of Optoelectronics and Advanced Materials** 11 (2009) 1339.

**31. A.V. Egorysheva, T.I. Milenov, P.M. Rafailov, C. Thomsen, R.Petrova, V.M. Skorikov and M.M. Gospodinov**

Lattice Distortion in a  $\text{Bi}_{12}\text{SiO}_{20}$  Crystal Caused by Doping with Copper

**Solid State Communications** 149 (2009) 1616- 1618

**32. S. Dobрева, T. Milenov, P. Rafailov and R. Nikolova**

Growth, Structure and Electrical Properties of  $\text{La}_2\text{CoMnO}_6$  Crystals

**Comptes Rendus l'Acad. Bulg. Sci.** 62 (2009) 565.

**33. T. I. Milenov, P. M. Rafailov, M. V. Abrashev, R. P. Nikolova, R. Titorenkova and M. M. Gospodinov**

Growth and Characterization of Large  $\text{La}_{(1-x)}\text{Pb}_x\text{MnO}_{3+\delta}$  ( $x=0.32\div 0.35$ ) Crystals

**Cryst. Res. Technol.**, 44 (2009) 1192

**34. T.I. Milenov, P.M. Rafailov, M.V. Abrashev, R.P. Nikolova, A. Nakatsuka, G.V. Avdeev, M.N. Veleva, S. Dobрева, L. Yankova and M.M. Gospodinov**

Growth and Characterization of  $\text{La}_2\text{CoMnO}_6$  Crystals Doped with Pb

**Mater. Sci. Eng. B** 172 (2010) 80

**35. P.M. Rafailov, A.V. Egorysheva, T.I. Milenov, V.D. Volodin, G.V. Avdeev, R.Titorenkova, V.M. Skorikov, R.Petrova and M.M. Gospodinov**

Synthesis, Growth and Optical Spectroscopy Studies of  $\text{BaBiBO}_4$  and  $\text{CaBi}_2\text{B}_2\text{O}_7$  Crystals

**Applied Physics B** 101 (2010) 185

**36. Егорышева А.В., Володин В.Д., Миленов Т., Рафаилов П.,Скориков В.М., Дудкина Т.Д.**

Glass- formation in the  $\text{CaO-Bi}_2\text{O}_3\text{-B}_2\text{O}_3$  and  $\text{SrO-Bi}_2\text{O}_3\text{-B}_2\text{O}_3$  systems

**Russ. J. Inorg. Chem.**, 55 (2010) 1810

**37. T I Milenov, P M Rafailov, V Tomov, R P Nikolova, V H Skumryev, J M Igartua, G Madariaga, G A López, E Iturbe-Zabalo and M M Gospodinov**

Growth and Characterization of  $\text{Pb}_3\text{Ni}_{1.5}\text{Mn}_{5.5}\text{O}_{15}$  Single Crystal

**Journal of Physics: Condensed Matter.** 23 (2011) 156001.

**38. G. V. Avdeev, T. I. Milenov, A. V. Egorysheva, K. P. Petrov, V. M. Skorikov, R. Kh. Titorenkova and P. M. Rafailov**

Crystal Structure of  $\text{Bi}_{36}\text{MgP}_2\text{O}_{60-\delta}$

**Russ. J. of Inorg. Chem.**, 56 (2011) 913.

**39. T.I. Milenov, P.M. Rafailov, C. Thomsen, A. Egorysheva, R. Titorenkova, B. Kostova, V. Skorikov**

Raman and optical spectroscopy characteristics of Se-doped  $\text{Bi}_{12}\text{SiO}_{20}$  crystals

**Optical Materials** 33 (2011) 1573.

**40.T. Milenov, G. Avdeev, P. Rafailov, V. Tomov, S. Dobрева, L. Yankova, M. Veleva, D. Toncheva**

Growth, Characterization and Dielectric Properties of  $\text{Bi}_2\text{Mn}_4\text{O}_{10}$  Single Crystals

**Comptes Rendus l'Acad. Bulg. Sci.** 64 (2011) 931

**41.A.V. Egorysheva, V.D. Volodin, T. Milenov, G. Avdeev, P. Rafailov, V.M. Skorikov**

Influence of  $\text{Eu}_2\text{O}_3$  on the Crystallization Process of Glasses in the System  $\text{BaO-Bi}_2\text{O}_3\text{-B}_2\text{O}_3$

- Inorg. Mater**, 48 (2012) 948- 952 DOI: 10.1134/S0020168512090051
42. T.I. Milenov, P.M. Rafailov, I. Urcelay-Olabarria, E. Ressouche, J.L. García-Muñoz, V. Skumryev and M.M. Gospodinov  
Magnetic Behaviour of  $\text{La}_2\text{CoMnO}_{6.6}$  Crystal Doped with Pb and Pt  
**Materials Research Bulletin**, 47 (2012) 4001-5  
DOI: 10.1016/j.materresbull.2012.08.071
43. L. Yankova, T.I. Milenov, P.M. Rafailov, G.V. Avdeev, M.N. Veleva and M.M. Gosopodinov  
Magnetic and electric field characterization of  $\text{La}_2\text{CoMnO}_6$  crystals doped with Pb  
**Crystal Research and Technology**, 48, (2013) 439–445  
DOI 10.1002/crat.201300081
44. E.M. Kozbahteev, V.M. Skorikov, T.I. Milenov, P. Rafailov and G. Avdeev  
Synthesis of carbon allotropic forms by the hydrothermal method  
**Russ. J. Inorg. Chem.**, 58 (2013) 1542-1546, DOI: [10.7868/S0044457X13120155](https://doi.org/10.7868/S0044457X13120155)
45. T.I. Milenov, T. Tenev, I. Miloushev, G.V. Avdeev, C.W. Luo and W.C. Chou,  
Preliminary studies of the Raman spectra of  $\text{Ag}_2\text{Te}$  and  $\text{Ag}_5\text{Te}_3$   
**Optical and Quantum Electronics-** 46 (2013) 573- 580, DOI 10.1007/s11082-013-9810-1
46. Teodor I. Milenov and Ivalina Avramova,  
Deposition of graphene by sublimation of pyrolytic carbon  
**Optical & Quantum Electronics**, 47, 851–863 (2015), DOI 10.1007/s11082-014-0015-z
47. Teodor Milenov, Ivalina Avramova, Evgenia Valcheva and Savcho Tinchev,  
Influence of the surface treatment with low-energy  $\text{Ar}^+$  plasma on graphene and defected graphene layers  
**Optical & Quantum Electronics**, 47, 901–912 (2015), DOI 10.1007/s11082-014-0037-6
48. Teodor Milenov, Ivalina Avramova, Evgenia Valcheva, Savcho Tinchev and Georgi Avdeev,  
Low energy  $\text{Ar}^+$  -plasma thinning and thermal annealing of carbon films to few-layered graphene  
**Optical & Quantum Electronics**, 47, 923–935 (2015), DOI 10.1007/s11082-014-0067-0
49. A.V. Egorysheva, T.I. Milenov, O.G. Ellert, G.V. Avdeev, P.M. Rafailov, N.N. Efimov, V.M. Novotortsev  
Magnetic glass-ceramics containing multiferroic  $\text{BiFeO}_3$  crystals  
**Solid State Sciences** 40, 31-35 (2015), DOI [10.1016/j.solidstatesciences.2014.12.011](https://doi.org/10.1016/j.solidstatesciences.2014.12.011)
50. Teodor Milenov, Ivalina Avramova, Evgenia Valcheva and Savcho Tinchev,  
Deposition of graphene/ graphene-related phases on different substrates by thermal decomposition of acetone  
**Optical & Quantum Electronics** 48, 1-12 (2016), DOI 10.1007/s11082-016-0374-8
51. E.M. Kozhbakhteev, V.M. Skorikov, T.I. Milenov, S.A. Kuznetsova.  
Formation of Carbon Phases under Hydrothermal Conditions  
**Russian Journal of Inorganic Chemistry**, 61, 11, (2016) 1374-1377, DOI:10.1134/S0036023616110103,
52. I. Balchev, K. Cvetkova, P Terziiska, A Szekeres, I Miloushev, T Tenev, K Antonova, R Peyeva, T Ivanova, I Avramova, M Tzvetkov, G Avdreev, E Valcheva, T. Milenov, S. Tinchev,  
Synthesis and characterization of thin amorphous carbon films doped with nitrogen on (001) Si substrates  
**Journal of Physics: Conference Series**, 764, 012013 (2016)
53. Kolev S, Balchev I, Tinchev S, Milenov T.  
*Ab-Initio* Molecular Dynamics Simulation of Graphene Sheet  
**Journal of Physics: Conference Series**, 780, 012014 (2017)
54. H Naradikjan, M Petrov, B Katranchev, T Milenov, S Tinchev,

Surface characterization and orientation interaction between Diamond Like Carbon layer structure and dimeric LC

**Journal of Physics: Conference Series 780, 012010 (2017)**

**55. T. I. Milenov, E. Valcheva and V. N. Popov,**

Raman Spectroscopic Study of As-Deposited and Exfoliated Defected Graphene Grown on (001) Si Substrates by CVD

**Journal of Spectroscopy**, Volume 2017, Article ID 3495432-1-8, (2017)

DOI: [10.1155/2017/3495432](https://doi.org/10.1155/2017/3495432)

**56. T.I. Milenov, I. Avramova, E. Valcheva, G.V. Avdeev, S. Rusev, S. Kolev, I. Balchev, I. Petrov, D. Pishinkov and V.N. Popov,**

Deposition of defected graphene on (001) Si substrates by thermal decomposition of acetone, **Superlattices and Microstructures**, 111, 45-56 (2017)

DOI: [10.1016/j.spmi.2017.04.042](https://doi.org/10.1016/j.spmi.2017.04.042)

**57. Tien-Tien Yeh, Wen Hao Lin, Wen-Yen Tzeng, Phuoc Huu Le, Chih-Wei Luo, Teodor I. Milenov**

The optical properties of Ag<sub>2</sub>Te crystals from THz to UV

**Journal of Alloys and Compounds**, 725, 433- 440 (2017)

DOI: [10.1016/j.jallcom.2017.07.153](https://doi.org/10.1016/j.jallcom.2017.07.153)

**58. A.V. Egorysheva, T.I. Milenov, P.M. Rafailov, O.M. Gaytko, G.V. Avdeev, T.D. Dutkina**

Optical and vibrational spectra of Bi<sub>1.8</sub>Fe<sub>1.2(1-x)</sub>Ga<sub>1.2x</sub>SbO<sub>7</sub> solid solutions with pyrochlore-type structure

**Russian Journal of Inorganic Chemistry**, 62, 960-963 (2017)

DOI: [10.7868/S0044457X17070066](https://doi.org/10.7868/S0044457X17070066)

#### **Conference presentations (recent 5 years):**

**1. T.I.Milenov, P.M. Rafailov, M.M. Gospodinov, R.P. Nikolova, B.L. Shivachev, G.V. Avdee and M.N. Iliev**

Characterization of Bi<sub>24</sub>FeBiO<sub>39</sub> and Bi<sub>12</sub>(Fe<sub>0.85</sub>Bi<sub>0.15</sub>)O<sub>20</sub> Crystals

**Second International Scientific Conference "EDUCATION, SCIENCE, INNOVATIONS 2012" (ESI), 9-10 June 2012, European Polytechnical University, Pernik, Bulgaria**

**2. T.I.Milenov**

Latest Results on Synthesis and Characterization of La<sub>2</sub>Co<sub>x</sub>Mn<sub>(1-x)</sub>O<sub>(6-δ)</sub> Crystals

**(Review presentation)**

**Second International Scientific Conference "EDUCATION, SCIENCE, INNOVATIONS 2012" (ESI), 9-10 June 2012, European Polytechnical University, Pernik, Bulgaria**

**3. Chih-Chang Hong, Chih-Wei Luo and Teodor I. Milenov,**

Reflectance spectroscopy studies of Ag<sub>2</sub>Te Crystals,

**Annual Meeting of the Physical Society of Taiwan, Annual Meeting of the Physical Society of Taiwan, National Dong Hwa University, Hualien, Republic of China /JAN 29 - 31, 2013/**

**4. T.I. Milenov, E.P. Valcheva and S.S. Tinchev,**

Influence of the low-energy Ar<sup>+</sup> on graphene phases

**II-nd Congress of Physics, September 25-29, 2013, Sofia, Bulgaria**

**5. S.S. Tinchev, T.I. Milenov, R. Chervenkov, K. Mukov and G.V. Avdeev**

Surface modification of DLC to graphene by low-energy ion irradiation  
**"PHOTONICS' 2013", Crotona 20-th- 24-th May 2013, Italy**



**6. Катя Вутова, Тимур Нурғалиев, Татьяна Куцарова, Савчо Тинчев, Теодор Миленов**  
Наноматериали и нанотехнологии за електрониката,  
**Списание на БАН , 5 (2015) 3 – 14**