

## List of publications

s.l.dr. Pop Ana-Lidia candidate for the associate professor position number 13 of  
Physics and Chemistry Department, Faculty of Materials and Environmental Engineering,  
Technical University of Cluj-Napoca

### *Relevant works for one`s own professional achievements*

1. E. Culea, **L. Pop**, V. Simon, M. Neumann, I. Bratu, Spectroscopic and magnetic behavior of  $x\text{Nd}_2\text{O}_3(1-x)(3\text{Bi}_2\text{O}_3 \cdot \text{PbO})$  glasses, *Journal of Non-Crystalline Solids* 337 (2004) 62-67
2. E. Culea, **L. Pop**, S. Simon, Spectroscopic and magnetic behaviour of  $x\text{Gd}_2\text{O}_3(1-x)(\text{Bi}_2\text{O}_3 \cdot \text{PbO})$  glasses, *Material Science and Engineering: B*, 112 (1) (2004) 59-63
3. P. Pascuta, **L. Pop**, S. Rada, M. Bosca, E. Culea, The local structure of bismuth borate glasses doped with europium ions evidenced by FT-IR spectroscopy, *Journal of Materials Science: Materials in Electronics* (19) (5) (2008) 424-428
4. M. Bosca, **L. Pop**, G. Borodi, P. Pascuta, E. Culea, XRD and FTIR structural investigations of erbium-doped bismuth-lead-silver glasses and glass ceramics, *Journal of Alloys and Compounds* 479 (2009) 579-582
5. E. Culea, **L. Pop**, M. Bosca, Structural and physical characteristics of  $\text{CeO}_2\text{-GeO}_2\text{-PbO}$  glasses and glass ceramics, *Journal of Alloys and Compounds* 505 (2010) 754-757
6. **L. Pop**, M. Bosca, E. Culea, Spectroscopic and magnetic behavior of Gd and Nd ions in lead-germanate glasses, *Journal of Alloys and Compounds* 525 (2012) 58-62
7. L. Bolundut, **L. Pop**, M. Bosca, G. Borodi, L. Olar, R. Suci, P. Pascuta, E. Culea, R. Stefan, Structural and spectroscopic properties of some neodymium-boro-germanate glasses and glass ceramics embedded with silver nanoparticles, *Ceramics International* 43 (2017) 12232-12238
8. P. Pascuta, **L. Pop**, R. Stefan, L. Olar, G. Borodi, L.C. Bolundut, E. Culea, The impact of Ag and Cu nanoparticles on optical and magnetic properties of new  $\text{Tb}_2\text{O}_3\text{-PbO-TeO}_2$  glass ceramic system, *Journal of Alloys and Compounds* 799 (2019) 442-449
9. **L. Pop**, L. Bolundut, P. Pascuta, E. Culea, Influence of  $\text{Er}^{3+}$  ions addition on thermal and optical properties of phosphate-germanate system, *Journal of Thermal Analysis and Calorimetry* 138 (2019) 1895-1899

10. L. Bolundut, P. Pascuta, E. Culea, M. Bosca, **L. Pop**, R. Stefan, Spectroscopic study of some new cobalt-doped tellurite glass–ceramics, *Journal of Materials Science* 55 (2020) 9962-9971

### ***PhD thesis***

***Thesis title:*** *The study of structure and physical properties of some bismuth oxide based glasses with rare earth ions*

***Scientific leader:*** prof. univ. dr. Culea Eugen

***Date of public presentation:*** 4 May 2007

***Thesis field:*** Physics

***Babeş-Bolyai University of Cluj-Napoca***

### ***Books published by CNCSIS recognized publishing house***

1. Culea Eugen, **Pop Lidia**, Pop Gh. Ioan, *Fizica aplicată: îndrumător pentru lucrări de laborator*, Cluj-Napoca, Editura UTPress, **2002**, ISBN: 973-8335-74-4
2. Muntean Raveca, Culea Eugen, **Pop Lidia**, *Fizică generală: lucrări practice*, Cluj-Napoca, Editura UTPress, **2003**, ISBN: 973-662-034-4
3. **Lidia Pop**, Maria Boşca, *Noţiuni de fizică: mecanică*, Cluj-Napoca, Editura UTPress, **2012**, ISBN: 978-973-662-762-0
4. Petru Păşcuţă, **Lidia Pop**, Maria Boşca, *Fizică. Lucrări practice*, Cluj-Napoca, Editura UTPress, **2013**, ISBN: 978-973-662-801-6
5. Răzvan Ştefan, Petru Păşcuţă, **Lidia Pop**, *Structura şi proprietăţile fizice ale unor materiale vitroase cu ioni 3d şi 4f*, Editura AcademicPres, **2014**, ISBN: 978-973-744-390-8
6. Radu Fechete, Dumitriţa Corpodean, Ramona Chelcea, **Lidia Pop**, Maria Boşca, *Fizică. Îndrumător de lucrări virtuale de laborator*, Editura UTPress, **2021**, ISBN: 978-606-737-519-0
7. **Lidia Pop**, *Curs de fizică generală*, Editura UTPress, **2021**, ISBN: 978-606-737-520-6

### *Scientific articles published in ISI journals*

1. E. Culea, **L. Pop**, V. Şimon, M. Neumann, I. Bratu, Spectroscopic and magnetic behavior of  $x\text{Nd}_2\text{O}_3(1-x)(3\text{Bi}_2\text{O}_3 \cdot \text{PbO})$  glasses, *Journal of Non-Crystalline Solids* 337 (2004) 62-67
2. E. Culea, **L. Pop**, S. Şimon, Spectroscopic and magnetic behaviour of  $x\text{Gd}_2\text{O}_3 (1 - x)(\text{Bi}_2\text{O}_3 \cdot \text{PbO})$  glasses, *Material Science and Engineering: B*, 112 (1) (2004) 59-63
3. E. Culea, **L. Pop**, S. Şimon, M. Culea, Magnetic and structural behaviour of  $x\text{Eu}_2\text{O}_3(1-x)(3\text{Bi}_2\text{O}_3 \text{ PbO})$  glasses *Journal of Magnetism and Magnetic Materials*, 290-291 (2) (2005) 1465-1468
4. **L. Pop**, T. Ristoiu, N. Dempsey, M. Culea, E. Culea, Low-temperature study of magnetic behavior of europium in lead-bismuthate glasses, *Modern Physics Letters B* 20 (30) (2006) 1957-1962
5. E. Culea, I. Bratu, M. Bogdan, L. Giurgiu, I. Vida-Simiti, M. Culea, **L. Pop**, M. Boşca, Nanostructured phases in bismuthate glasses containing rare earth ions, *Journal of Optoelectronics and Advanced Materials* 8 (3) (2006) 1140
6. E. Culea, **L. Pop**, R. Muntean, M. Boşca, I. Bratu, M. Bogdan, Er-doped lead-bismuthate glasses: magnetic and structural properties, *Modern Physics Letters B* 21 (30) (2007) 261-267
7. **L. Pop**, E. Culea, M. Boşca, R. Muntean, M. Culea, The influence of erbium ions on  $\text{Bi}_2\text{O}_3\text{-PbO}$  glass structure, *Journal of Optoelectronics and Advanced Materials* 9 (3) (2007) 561-563
8. **L. Pop**, E. Culea, R. Muntean, M. Bosca, M. Culea, Structural characteristics of terbium-lead-bismuthate glasses, *Journal of Optoelectronics and Advanced Materials* 9 (2007) 1687-1689
9. **L. Pop**, E. Culea, M. Bosca, N. Neumann, R. Muntean, P. Păşcuță, S. Rada, X-ray photoelectron spectroscopic studies of lead-bismuthate glasses with rare earths, *Journal of Optoelectronics and Advanced Materials* 10 (3) (2008) 619-622
10. P. Păşcuță, **L. Pop**, S. Rada, M. Bosca, E. Culea, The local structure of bismuth borate glasses doped with europium ions evidenced by FT-IR spectroscopy, *Journal of Materials Science: Materials in Electronics* (19) (5) (2008) 424-428
11. P. Păşcuță, M. Bosca, S. Rada, **L. Pop**, E. Culea, Magnetic behaviour of europium ions in bismuth-borate glass matrix, *Journal of Optoelectronics and Advanced Materials* 10 (9) (2008) 2210-2212

12. **L. Pop**, M. Boşca, C. Neamţu, M. Culea, R. Muntean, E. Culea, Structural and optical characteristics of some bismuthate glass with rare earth ions, *Journal of Optoelectronics and Advanced Materials* 10 (2008) 3033-3037
13. P. Păşcuţă, **L. Pop**, S. Rada, M. Boşca, E. Culea, The local structure of bismuth germanate glasses and glass ceramics doped with europium ions evidenced by FT-IR spectroscopy, *Vibrational Spectroscopy* 48 (2008) 281-284
14. S. Rada, P. Păşcuţă, M. Boşca, M. Culea, **L. Pop**, E. Culea, Structural properties of the borobismuthate glasses containing gadolinium ions, *Vibrational Spectroscopy* 48 (2008) 255-258
15. P. Păşcuţă, S. Rada, G. Borodi, M. Bosca, **L. Pop**, E. Culea, Influence of europium ions on structure and crystallization properties of bismuth-alumino-borate glasses and glass ceramics, *Journal of Molecular Structure* 924-926 (2009) 214-220
16. E. Culea, **L. Pop**, P. Păşcuţă, M. Bosca, Novel bismuth–lead–silver glasses and glass ceramics doped with neodymium ions, *Journal of Molecular Structure*, Volumes 924-926 (2009) 192-195
17. M. Bosca, **L. Pop**, G. Borodi, P. Păşcuţă, E. Culea, XRD and FTIR structural investigations of erbium-doped bismuth–lead–silver glasses and glass ceramics, *Journal of Alloys and Compounds* 479 (2009) 579-582
18. E. Culea, **L. Pop**, M. Bosca, Structural and physical characteristics of CeO<sub>2</sub>–GeO<sub>2</sub>–PbO glasses and glass ceramics, *Journal of Alloys and Compounds* 505 (2010) 754-757
19. **L. Pop**, M. Bosca, E. Culea, Spectroscopic and magnetic behavior of Gd and Nd ions in lead–germanate glasses, *Journal of Alloys and Compounds* 525 (2012) 58-62
20. E.N. Culea, P. Păşcuţă, M. Pustan, D.R. Tamas-Gavrea, **L. Pop**, I. Vida-Simiti, Effects of Eu: Ag codoping on structural, magnetic and mechanical properties of lead tellurite glass ceramics, *Journal of Non-Crystalline Solids* 408 (2015) 18-25
21. **L. Pop**, E. Culea, M. Bosca, P. Pascuta, Structural, Spectroscopic, and Magnetic Characterization of Cobalt(III) Oxide–Disodium Tetraborate Glasses, *Analytical Letters* 49 (2016) 2587-2596
22. M. Bosca, **L. Pop**, L. Bolundut, N. Tothazan, G. Borodi, I. Vida-Simiti, R. Stefan, A. Popa, E. Culea, P. Pascuta, Effects of Gd<sup>3+</sup>: Ag co-doping on structural and magnetic properties of lead tellurite glass ceramics, *Ceramics International* 42 (2016) 1169-1176

23. L. Bolundut, **L. Pop**, M. Bosca, N. Tothazan, G. Borodi, E. Culea, P. Pascuta, R. Stefan, Structural, spectroscopic and magnetic properties of Nd<sup>3+</sup> doped lead tellurite glass ceramics containing silver, *Journal of Alloys and Compounds* 692 (2017) 934-940
24. S. Mitrici, S. Rada, E. Culea, **L. Pop**, A. Popa, A. Bot, S. Macavei, O. Pana, L. David, Nickel-lead-borate glasses and vitroceramics with antiferromagnetic NiO and nickel-orthoborate crystalline phases, *Journal of Non-Crystalline Solids* 471 (2017) 349-356
25. L. Bolundut, **L. Pop**, M. Bosca, G. Borodi, L. Olar, R. Suci, P. Pascuta, E. Culea, R. Stefan, Structural and spectroscopic properties of some neodymium-boro-germanate glasses and glass ceramics embedded with silver nanoparticles, *Ceramics International* 43 (2017) 12232-12238
26. L. Bolundut, **L. Pop**, P. Pascuta, E. Culea, Characterization of a Novel Zinc Phosphate – Germanate Oxide System Doped with Erbium Ions, *Analytical Letters* 52 (2019) 20-26
27. P. Pascuta, R. Stefan, L. Bolundut, **L. Pop**, Gh. Borodi, E. Culea, Copper nanoparticles enhanced luminescence of Eu<sup>3+</sup> doped lead tellurite glass ceramics, *Journal of Non-Crystalline Solids* 505 (2019) 9-17
28. P. Pascuta, **L. Pop**, R. Stefan, L. Olar, G. Borodi, L.C. Bolundut, E. Culea, The impact of Ag and Cu nanoparticles on optical and magnetic properties of new Tb<sub>2</sub>O<sub>3</sub>-PbO-TeO<sub>2</sub> glass ceramic system, *Journal of Alloys and Compounds* 799 (2019) 442-449
29. **L. Pop**, L. Bolundut, P. Pascuta, E. Culea, Influence of Er<sup>3+</sup> ions addition on thermal and optical properties of phosphate–germanate system, *Journal of Thermal Analysis and Calorimetry* 138 (2019) 1895-1899
30. L. Bolundut, P. Pascuta, E. Culea, M. Bosca, **L. Pop**, R. Stefan, Spectroscopic study of some new cobalt-doped tellurite glass–ceramics, *Journal of Materials Science* 55 (2020) 9962-9971
31. **L. Pop**, S. Rada, P. An, J. Zhang, M. Rada, R.C. Suci, E. Culea, Characteristics and local structure of hafnia-silicate-zirconate ceramic nanomixtures, *Journal of Synchrotron Radiation* 27 (2020) 970-978

### *Scientific articles published in CNCSIS recognized journals*

1. E.Culea, **L. Gog**, Magnetic properties of  $x\text{CeO}_2(0.90\text{Na}_2\text{B}_4\text{O}_7.0.10\text{PbO})$  glasses, Studia Universitatis Babeş-Bolyai, Physica, Special Issue (2001) 204
2. E. Culea, I. Bratu, **L. Pop**, Magnetic and IR spectroscopic behaviour of some glasses containing gadolinium and neodymium ions, Studia Universitatis Babeş-Bolyai, Physica, (2003)
3. E. Culea, **L. Pop**, R. Fechete, P. Păşcuță, S. Rada, M. Culea, M. Boşca, R. Chelcea, Analele Universităţii de Vest din Timişoara, XLIX, (2006), 55-58
4. **L. Pop**, E. Culea, M. Culea, S. Rada, P. Păşcuță, R. Fechete, M. Boşca, R. Chelcea, Analele Universităţii de Vest din Timişoara, XLIX, (2006), 204-207
5. E. Culea, **L. Pop**, M. Bosca, T. Rusu, P. Pascuta, S. Rada, J. Physics: Conf. Series 182 (2009) 012061.
6. E. Culea, **L. Pop**, M. Bosca, V. Dan, P. Pascuta, S. Rada, Structural and physical characteristics of  $x\text{Gd}_2\text{O}_3(100-x)[\text{Bi}_2\text{O}_3\text{ B}_2\text{O}_3]$  glasses, J. Physics: Conf. Series 182 (2009) 012062.
7. P. Pascuta, G. Borodi, M. Bosca, **L. Pop**, S. Rada, E. Culea, Preparation and structural characterization of some  $\text{Fe}_2\text{O}_3\text{-B}_2\text{O}_3\text{-ZnO}$  glasses and glass ceramics, J. Physics: Conf. Series 182 (2009) 012072.
8. S. Rada, E. Culea, M. Rada, V. Maties, M. Bosca, **L. Pop**, R. Fechete, R. Chelcea, D. Moldovan, Immobilization of gadolinium in borate-tellurate glasses, J. Physics: Conf. Series 182 (2009) 012075.
9. P. Pascuta, R. Stefan, M. Bosca, **L. Pop**, E. Culea, FTIR and UV-VIS spectroscopic investigation of erbium-zinc-borate ceramics, Studia Universitatis Babeş-Bolyai, Physica, 57 (2012) 59-66

*Scientific articles published in volumes of national or international conference proceedings*

1. E. Culea, **L. Gog**, Magnetic and structural properties of some glasses containing rare earth ions with applications in telecommunications, 2<sup>nd</sup> Conference of Izotopic and Molecular Processes, Cluj-Napoca, September 27-29, 2001
2. **L. Gog**, E. Culea, Magnetic properties of  $x\text{CeO}_2(0.90\text{Na}_2\text{B}_4\text{O}_7.0.10\text{PbO})$  glasses, 2<sup>nd</sup> Conference of Izotopic and Molecular Process, Cluj-Napoca, September 27-29, 2001
3. E. Culea, I. Bratu, **L. Pop**, Magnetic and IR spectroscopic behaviour of some glasses containing gadolinium and neodymium ions, 3<sup>rd</sup> Conference on Isotopic and Molecular Processes, September 25-27, 2003, Cluj-Napoca, Romania
4. E. Culea, **L. Pop**, I. Bratu, S. Şimon, I. Vida-Simiti. D. Udvar, Spectroscopic and magnetic study of  $x\text{Eu}_2\text{O}_3 (1-x)[3\text{Bi}_2\text{O}_3\cdot\text{B}_2\text{O}_3]$  glasses, 1<sup>st</sup> International Conference Advanced Spectroscopies on Biomedical and Nanostructured Systems, Cluj-Napoca, September 19-22, 2004
5. E. Culea, I. Bratu, M. Neumann, **L. Pop**, Structural and magnetic behaviour of some oxide glasses containing cerium ions, 4<sup>th</sup> Conference of Izotopic and Molecular Processes, Cluj-Napoca, Septembrie 22-24, 2005, Cluj-Napoca, Romania, pag. 54
6. **L. Pop**, T. Ristoiu, E. Culea, Magnetic and structural behaviour of europium ions in oxide vitreous systems, 4<sup>th</sup> Conference of Izotopic and Molecular Processes, Cluj-Napoca, Septembrie 22-24, 2005, Cluj-Napoca, Romania, pag. 121
7. E. Culea, I. Bratu, M. Bogdan, I. Vida-Simiti, **L. Pop**, M. Boşca, Nanostructured phases in bismuthate vitreous systems containing rare earth ions, 4<sup>th</sup> Conference of Izotopic and Molecular Processes, Cluj-Napoca, Romania, September 22-24, 2005
8. E. Culea, I. Bratu, M. Bogdan, L. Giurgiu, I. Vida-Simiti, I. Cosma, **L. Pop**, M. Boşca, Structural characteristics of terbium-lead-bismuthate glasses, 14<sup>th</sup> National Conference on Physics, Bucureşti, Măgurele, Romania, September 13-17, 2005
9. E. Culea, I. Bratu, M. Bogdan, L. Giurgiu, I. Vida-Simiti, **L. Pop**, M. Boşca, Nanostructured phases in bismuthate glasses containing rare earth ions, Conferinţa Universităţii Oradea, noiembrie 11-12, 2005

10. E. Culea, I. Bratu, M. Bogdan, L. Giurgiu, M. Neumann, **L. Pop**, M. Boşca, Structural and magnetic behaviour of some bismuthate glasses containing cerium ions, Conferința Universității Oradea, noiembrie 11-12, 2005
11. E. Culea, M. Neumann, A. Takacs, **L. Pop**, M. Culea, M. Boşca, R. Marcean, Structural and magnetic behaviour of some glasses containing cerium ions, Physics Conference TIM-05, Timișoara, noiembrie 25-26, 2005, pag 47
12. E. Culea, **L. Pop**, M. Boşca, Magnetic Behaviour of Some Oxide Glasses Doped With Rare Earth Ions, 6<sup>th</sup> International Conference of the Balkan Physical Union, August 22-26, 2006, Istanbul, Turkey, pag 733
13. E. Culea, **L. Pop**, M. Boşca, R. Marcean, M. Culea, Raman Spectroscopic characterization rare earth ions doped bismuth-based glasses, 6<sup>th</sup> International Conference of the Balkan Physical Union, August 22-26, 2006, Istanbul, Turkey, pag. 891
14. **L. Pop**, E. Culea, M. Boşca, R. Muntean, M. Culea, The influence of erbium ions on Bi<sub>2</sub>O<sub>3</sub>-PbO glass structure, 2<sup>th</sup> International Conference on Advanced Spectroscopies on Biomedical and Nanostructured Systems, September 3-6, 2006, Cluj-Napoca, Romania, pag 224
15. **L. Pop**, E. Culea, R. Muntean, M. Culea, M. Boşca, Structural characteristics of terbium - lead - bismuthate glasses, Romanian Conference on Advanced Materials (ROCAM), September 4-7, 2006, București – Măgurele, Romania
16. **L. Pop**, M. Boşca, R. Muntean, E. Culea, M. Culea, The influence of erbium and cerium ions on the Bi<sub>2</sub>O<sub>3</sub>-PbO glass structure, 10<sup>th</sup> International Conference on Non-Crystalline Materials NCM-10, September 18-22, 2006, Praha, Czech Republic
17. **L. Pop**, M. Boşca, E. Culea, A. Takacs, M. Neumann, M. Culea, Spectroscopic and magnetic behaviour of some lead bismuthate glasses containing cerium ions, 10<sup>th</sup> International Conference on Non-Crystalline Materials NCM-10, September 18-22, 2006, Praha, Czech Republic
18. **L. Pop**, M. Culea, R. Muntean, I. Bratu, E. Culea, Raman spectroscopy of Nd<sup>3+</sup>, Eu<sup>3+</sup> and Ce<sup>3+</sup> ions in lead bismuthate glasses, 4<sup>th</sup> International Conference on Material and Manufacturing Technologies, September 21-23, 2006, Cluj-Napoca, Romania
19. E. Culea, M. Neumann, A. Takacs, **L. Pop**, M. Culea, M. Boşca, R. Marcean, Structural and magnetic behaviour of some oxide glasses containing cerium ions, 4<sup>th</sup> International Conference on Material and Manufacturing Technologies, Cluj-Napoca, Romania, september 21-23, 2006



20. E. Culea, **L. Pop**, M. Boşca, I. Bratu, M. Culea, I. Vida-Simiti, Structural and magnetic properties of some bismuthate glasses containing rare earth ions, 5<sup>th</sup> International Conference on Inorganic Materials, September 23-26, 2006, Ljubljana, Slovenia
21. **L. Pop**, R. Fechete, P. Pășcuță, S. Rada, M. Culea, M. Boşca, R. Chelcea, E. Culea, Spectroscopic and magnetic properties of  $x\text{R}_2\text{O}_3(1-x)(0.15\text{Bi}_2\text{O}_3-0.85\text{TeO}_2)$  glasses, Conf. Int. Fizica TIM-06, 24-25 noiembrie 2006, Timisoara, p.61;
22. **L. Pop**, E. Culea, M. Culea, S. Rada, P. Pășcuță, R. Fechete, M. Boşca, R. Chelcea, Structural properties of  $\text{Bi}_2\text{O}_3\text{-PbO}$  glasses doped with rare-earth ions, Conf.Int.Fizica TIM-06, 24-25 noiembrie 2006, Timisoara, pg.68;
23. P. Pășcuță, S. Rada, **L. Pop**, M. Boşca, E. Culea, Structural and magnetic properties of the  $\text{Bi}_2\text{O}_3\text{-B}_2\text{O}_3\text{-Eu}_2\text{O}_3$  glasses, Conf. Int. Fizica TIM-06, 24-25 noiembrie 2006, Timisoara, pg.71;
24. P. Pășcuță, **L. Pop**, S. Rada, M. Boşca, E. Culea, The local structure of bismuth germanate glasses and glass ceramics doped with europium ions, evidenced by FTIR spectroscopy, 4<sup>th</sup> International Conference On Advanced Vibrational Spectroscopy, June 10-15, 2007, Corfu, Greece, pag. 245
25. S. Rada, P. Pășcuță, M. Boşca, **L. Pop**, E. Culea, Structural properties of some boro-bismuthate glasses containing gadolinium ions, 4<sup>th</sup> International Conference On Advanced Vibrational Spectroscopy, June 10-15, 2007, Corfu, Greece, pag. 235
26. P. Pășcuță, M. Boşca, S. Rada, **L. Pop**, E. Culea, The local structure changes induced by  $\text{CeO}_2$  addition in boro-bismuthate glass matrix, XXI<sup>st</sup> International Congress on Glass, July 1-6, 2007, Strasbourg, France, pag. 26
27. P. Pășcuță, M. Boşca, R. Chelcea, **L. Pop**, S. Rada, E. Culea, EPR and Magnetic Susceptibility Studies of  $\text{Gd}^{3+}$  ions doped bismuth-germanate glass matrix, EUROMAR, Magnetic Resonance Conference, July 1-6, 2007, Tarragona, Spain.
28. **L. Pop**, E. Culea, M. Boşca, M. Neumann, R. Muntean, P. Pășcuță, S. Rada, X-ray photoelectron spectroscopic studies of lead-bismuthate glasses with rare earth, 8<sup>th</sup> International Balkan Workshop on Applied Physics, July 5-7, 2007, Constanta, Romania, pag. 99.
29. P. Pășcuță, M. Boşca, S. Rada, **L. Pop**, E. Culea, Magnetic behaviour of europium ions in bismuth-borate glass matrix, 5<sup>th</sup> Conference on Isotopic and Molecular Processes PIM – 2007, September 20 – 22, Cluj-Napoca, Romania, pag. 132.

30. P. Pășcuță, S. Rada, G. Borodi, M. Bosca, **L. Pop**, E. Culea, Influence of europium ions on structure and crystallization properties of bismuth-alumino-borate glasses and glass ceramics, XXIX<sup>th</sup> European Congress on Molecular Spectroscopy, 31August- 5September, 2008, Opatija, Croatia, pag.170.
31. P. Pășcuță, M. Bosca, **L. Pop**, S. Rada, E. Culea, Spectroscopic and magnetic investigations of some bismuth-boro-vanadate glasses doped with gadolinium ions, Advanced Spectroscopies on Biomedical and Nanostructured Systems, September 7-10, 2008, Cluj-Napoca, Romania
32. S. Rada, E. Culea, M. Rada, V. Maties, M. Bosca, **L. Pop**, R. Fechete, R. Chelcea, D. Moldovan, Immobilisation of gadolinium in borate-tellurate glasses, Process in isotopes and molecules, PIM 2009, September 24-26, Cluj-Napoca, Romania, T5-21.
33. S. Rada, M. Culea, M. Rada, V. Maties, P. Pascuta, I. Coroiu, **L. Pop**, E. Culea, Vibrational spectroscopic and DFT studies of gadolinium-lead-germanate glasses, Gaussian 09 Workshop, 2009, July 28-31, Ulm, Germany.
34. M. Rada, E. Culea, S. Rada, V. Maties, P. Pascuta, **L. Pop**, Structural investigation of molybdenum-lead-borate glasses by X-ray diffraction and FTIR spectroscopy, 5<sup>th</sup> International Conference on Advanced Vibrational Spectroscopy, Melbourne, 12-17 July 2009, P186.
35. S. Rada, R. Chelcea, **L. Pop**, M. Bosca, T. Ristoiu, I. Coroiu, E. Culea, Germanate anomaly in gadolinium-lead-germanate glasses, Colloquium Spectroscopicum Internationale XXXVI, 2009, 30August – 3September, Budapest, Hungary, PW-48.
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