

**S.I.dr.ing. VASILE GEORGIANA**

**LISTA DE LUCRĂRI PUBLICATE**

**A. TEZA DE DOCTORAT:**

**Titlul tezei:** „*Caracterizarea ghidurilor optice de undă de tip  $Er^{3+}:Ti:LiNbO_3$* ”

**Domeniul:** Fizică.

**Universitatea Politehnica București, 2007**

**B. ARTICOLE ȘI COMUNICĂRI**

**Ba.**

**Articole publicate în reviste I.S.I.:**

**1.** A. A. Popescu, L. Baschir, M. Stafe, Mona Mihailescu, C. Negutu, Georgiana C. Vasile, D. Savastru, Simona Donțu, A. Moldovan, I. M. Vasile, M. Enachescu, N. N. Puscas – „*Characterization of  $As_2S_3$  thin surface films using SEM, AFM and optical methods*”, trimis spre publicare la Bulletin – Series A: Applied Mathematics and Physics, Vol. , Iss. , p. - , ISSN 1223-7027, IF=0.300 (pe 2012) , **2014**.

**2.** **Georgiana C. Vasile**, A. A. Popescu, M. Stafe, S.A. Koziukhin, D. Savastru, Simona Donțu, L. Baschir, V. Sava, B. Chiricuță, M. Mihăilescu, C. Neguțu, N.N. Pușcaș - “*Plasmonic waveguides features correlated with surface plasmon resonance performed with a low refractive index prism*”, Bulletin – Series A: Applied Mathematics and Physics, Vol. 75, Iss.4 , p. 311 - 325, ISSN 1223-7027, IF=0.300 (pe 2012) , **2013**.

**3.** **Georgiana C. Vasile**, Roxana Savastru, A.A. Popescu, M. Stafe, D. Savastru, Simona Donțu, L. Baschir, V. Sava, B. Chiricuță, M. Mihăilescu, C. Neguțu, N.N. Pușcaș – “*Modelling the 2D plasmonic structures with active chalcogenide glass layer*”, Romanian Reports in Physics, Vol. 65, No. 3, p. 1012 – 1018, ISSN 1841-8759, IF=1.123 (pe 2012), AIS=0.125 , **2013**.

**4.** Simona Donțu, Aurelian A. Popescu, Dan Savastru, Vasile Sava, Bogdan Chiricuță, Mona Mihăilescu, Constantin Neguțu, **Georgiana C. Vasile**, Niculae Pușcaș – “*Advanced methods of characterisation of the thin chalcogenide films, passive and active optical waveguides*”, Scientific Bulletin – Series A: Applied Mathematics and Physics, Vol. 75, Iss. 1, p. 163 -180, ISSN 1223-7027, IF= 0.300 (pe 2012) , **2013**.

**5.** **Georgiana C. Vasile**, Ion Mihai N. Vasile, Vasile Sava – „*A method to remove optical fibers coating*”, Scientific Bulletin – Series A: Applied Mathematics and Physics, Vol. 75, Iss. 2, p. 155 – 160, ISSN 1223-7027, IF=0.300 (pe 2012) , **2013**.

**6.** **Georgiana C. Vasile**, Ion Alin Bîrțoiu, Ion-Mihai N. Vasile, Mona Mihăilescu, Niculae N. Pușcaș, „*Characterization of canine oocytes using absorption/transmission measurements*”, Proc. SPIE 8411, Advanced Topics in Optoelectronics, Microelectronics,

and Nanotechnologies VI, 841105 (**November 1, 2012**); doi:10.1117/12.970638; [http://spie.org/x648.xml?product\\_id=970638](http://spie.org/x648.xml?product_id=970638), (Proceedings of Spie al Conferinței Internaționale ATOM-N2012 din 23 – 26 august 2012, Constanța, Romania).

7. **G.C. Vasile**, G. Perrone, A. Vallan, S. Abrate, N.N. Puscas – „*A high performance and low-cost polarimetric fiber-optic pressure sensor*”, Optoelectronics and Advanced Materials – Rapid Communications, Vol. 6, No. 1-2, p. 296 – 299, **January-February 2012**, ISSN 1842-6573, IF=0.402 pe 2012, AIS=0.069 .

8. **G. C. Vasile**, N. N. Pușcaș – „*Near-field measurements of a single-mode optical fiber and  $Er^{3+}$ :Ti:LiNbO<sub>3</sub> and Ti:LiNbO<sub>3</sub> optical waveguides*”, Optoelectronics and Advanced Materials – Rapid Communications, Vol. 5, No. 6, p. 606 – 609, **June 2011**, ISSN 1842-6573, IF=0.304 pe 2011, AIS=0.052.

9. **Georgiana C. Vasile**, Niculae N. Puscas - Evaluation of losses and group effective refractive index of  $Er^{3+}$ :Ti:LiNbO<sub>3</sub> optical waveguides”, Central European Journal of Physics, Vol. 9, Iss. 3, p. 852 - 856, ISSN 1895-1082, IF=0.691 pe 2010, **2010**.

10. **Georgiana C. Vasile**, Alexandru E. Braniște, Gelu Ilie, Niculae N. Pușcaș – “Evaluation of the optical coupling between optical fibres and  $Er^{3+}$ :Ti:LiNbO<sub>3</sub> optical waveguides”, “Scientific Bulletin – Series A: Applied Mathematics and Physics ”, Vol. 72, Iss. 3, p. 137 – 148, ISSN 1223-7027, IF= pe 2010, **2010**.

11. **G. C. Constantin**, G. Perrone, S. Abrate, N. N. Pușcaș – „*Fabrication and characterization of low-cost polarimetric fiber-optic pressure sensor*”, Journal of Optoelectronics and Advanced Materials, Vol. 8, No.4, p. 1635-1639, , ISSN 1454-4164, **August 2006**.

12. N. N. Pușcaș, A. Ducariu, **G. C. Constantin**, D. Dinu - “*Calculation of some spectroscopic parameters of LiNbO<sub>3</sub>:Er<sup>3+</sup> optical waveguides*”, Journal of Optoelectronics and Advanced Materials Vol. 7, No. 2, p. 1057–1064, **April 2005**, ISSN 1454-4164.

#### **Articole publicate în reviste recunoscute CNCSIS (la nivel național):**

1. Ion Mihai VASILE, Ionelia VOICULESCU, **Georgiana VASILE**, Simona ZAMFIR, „*Some aspects regarding the microstructural and mechanical characteristics of the weld deposit on microalloyed steels for dies*”, Scientific Bulletin – Series B Chemistry and Materials Science, Vol. 75, Iss. 1, p. 209 - 216, ISSN 1454-2331, **2013**.

2. **Georgiana C. Vasile**, Niculae N. Pușcaș – „*Losses measurement of  $Er^{3+}$ :Ti:LiNbO<sub>3</sub> optical waveguides* ”, University Politehnica of Bucharest, “Scientific Bulletin – Series A: Applied Mathematics and Physics ”, Vol. 69, No. 3, p. 7-16, ISSN 1223-7027, **2007**.

3. B. Savu, **Georgiana C. Constantin**, N. N. Pușcaș – „Gain and noise theoretical analysis of  $Er^{3+}$ -doped  $Ti:LiNbO_3$  straight waveguide amplifiers”, University Politehnica of Bucharest, “Scientific Bulletin – Series A: Applied Mathematics and Physics”, Vol. 68, No. 1, p. 63-71, ISSN 1223-7027, **2006**.

4. **Georgiana C. Constantin**, M. Gorie, F. Puntaru and N.N.Pușcaș - “Evaluation of some spectroscopic parameters of  $Er^{3+}$  and  $Yb^{3+}$  doped  $LiNbO_3$  optical waveguides”, University Politehnica of Bucharest, “Scientific Bulletin – Series A: Applied Mathematics and Physics”, Vol. 67, No. 3, p. 55-66, ISSN 1223-7027, **2005**.

5. **Georgiana C. Constantin**, N. N. Pușcaș - “The determination of the refractive index profile of the  $Ti:LiNbO_3$  optical waveguides”, University Politehnica of Bucharest, “Scientific Bulletin – Series A: Applied Mathematics and Physics”, Vol. 64, No. 4, p. 38-46, ISSN 1223-7027, **2002**.

**Bb. Lucrări publicate în volumele unor manifestări științifice internaționale (Proceedings):**

1. **Georgiana C. Vasile**, Ion Alin Bîrțoiu, Ion-Mihai N. Vasile, Mona Mihăilescu, Niculae N. Pușcaș, „Characterization of canine oocytes using absorption/transmission measurements”, Proc. SPIE 8411, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies VI, 841105 (**November 1, 2012**); doi:10.1117/12.970638; [http://spie.org/x648.xml?product\\_id=970638](http://spie.org/x648.xml?product_id=970638), (Proceedings of Spie al Conferinței Internaționale ATOM-N2012 din 23 – 26 august 2012, Constanța, Romania).

2. **Georgiana C. Vasile** and Niculae N. Pușcaș – „Characterization of  $Er^{3+}:Ti:LiNbO_3$  and  $Ti:LiNbO_3$  optical waveguides using near-field measurements”, Proceedings of SPIE, Vol. 7821, **2010** (Proceedings-ul Conferinței Internaționale ATOM-N2010 din 26 – 29 august 2010, Constanța, Romania), ISSN-0277-786X.

3. **G. C. Vasile** and N. N. Pușcaș – „Measurement and evaluation of losses and group effective refractive index of  $Er^{3+}$ -doped  $Ti:LiNbO_3$  optical waveguides”, Journal of Optoelectronics and Advanced Materials - Symposia, (Proceedings of the Condensed Matter Physics Conference of Balkan Countries, May 26th – May 28th, 2008, Muğla, Turkey), Vol. 1, No.3, p. 214-217, **2009**, ISSN-2066-057X.

4. **Georgiana C. Constantin**, N. N. Pușcaș and I. M. Popescu – „Modelling and evaluation of some spectroscopic parameters of  $Er^{3+}$  and  $Yb^{3+}$  doped  $LiNbO_3$  optical waveguide amplifiers” – Proceedings of SPIE, Volume 6785, **2007**, ISSN-0277-786X.

5. A. Ducariu, **G. C. Constantin**, N. N. Pușcaș - “Theoretical analysis of photon statistics on excited number of modes and dopant concentration in  $Er^{3+}:Ti:LiNbO_3$  waveguide amplifiers”, Proceedings of SPIE - Volume 5972 Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies II, p. 318-326, **2005**, ISSN-0277-786X.

### C. CĂRȚI PUBLICATE:

1. Niculae N. Pușcaș, **Georgiana C. Vasile**, *Senzori cu fibre și ghiduri optice de undă*, ISBN (13) 978-973-718-626-3, nr. de pagini: 203, Editura Printech, București 2007.

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