

1. Personal information

Name and surname: Alin Marian APETREI

Date and place of birth: July 27, 1978, Iași, Romania

Present academic position: C.S., RAMTECH Center, Science Department

Current address: “Alexandru Ioan Cuza” University, Blvd. Carol I, no. 11, Iași, RO-700506, Romania

Phone number, e-mail address: +40232 201102 interior 2515, alin.apetrei@uaic.ro,

2. Education

2003-2007 Ph.D. studies at the “Paris-Sud XI” University, Orsay, (France)

2001-2003 Faculty of Physics, “Alexandru Ioan Cuza” University Iași, Romania (*Master*, Plasma Physics)

1997-2001 Faculty of Physics, “Alexandru Ioan Cuza” University Iași, Romania (*License*)

3. Selected, peer-reviewed research work

1. **Alin Marian Apetrei**, Kamel Boukheddaden, Alexandru Stancu, ‘Dynamic phase transitions in the one-dimensional spin-phonon coupling model’, **PHYS. REV. B** 87, 014302 (2013) DOI: 10.1103/PhysRevB.87.014302.
2. **A. M. Apetrei**, J.M. Moison, J.A. Levenson, G. Mélin, A. Fleureau, S. Lempereur, ‘: Intermodal interferences in a multimode highly-asymmetric two-core microstructured optical fiber’, **J. OPT. SOC. AM. B** 27 (9), 1735-1740 (2010).
3. C. Fiorini-Debuisschert, I. Berline, G. Metgé, **A. Apetrei**, I. Arfaoui, L. Douillard, F. Charra, D. Bleger, D. Kreher, F. Mathevet, A.-J. Attias, ‘Controlling molecular organization for the realisation of sub-wavelength light sources’, **NONLINEAR OPTICS, QUANTUM OPTICS – CONCEPTS IN MODERN OPTICS** 40, 293-305 (2010). doi:10.1371/journal.pone.0025276.
4. **A.M. Apetrei**, M.C. Pan Huy, N. Belabas, J.A. Levenson, J.M. Moison, J.M. Dudley, G. Mélin, A. Fleureau, L. Galkovsky, S. Lempereur, ‘A dense array of small coupled waveguides in fiber technology: trefoil channels of microstructured optical fibers’, **OPTICS EXPRESS** 16 (25), 20648-20655 (2008).
5. J.M. Moison, **A.M. Apetrei**, J.A. Levenson, G. Mélin, Ph. Pédeboscq, A. Fleureau, S. Lempereur, L. Gasca, ‘Light transmission in multiple or single subwavelength trefoil channels of microstructured fibers’, **OPTICS EXPRESS** 13 (4), 1193-1201 (2005).
6. J.M. Moison, **A.M. Apetrei**, J.A. Levenson, G. Mélin, S. Lempereur, A. Fleureau, E. Bourov, L. Gasca, ‘Evaluation of highly nonlinear microstructured optical fiber by near-field scanning optical microscopy and simulations: nonlinear coefficient and coupling losses’, **APPL. PHYS B** 80, 73-77 (2005) .

4. Research interests

Linear and nonlinear optics in waveguide configuration (silica fibers, LiNbO₃ waveguides); evanescently coupled waveguides; Monte Carlo simulations of spin crossover compounds; preparation and investigation of self assembled monolayers;

C.S. Alin Marian APETREI