



Europass Curriculum Vitae

Personal information

Surname(s) / First name(s) **SMARANDACHE Adriana Loredana**

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Nationality Romanian

Date of birth 04.11.1969

Gender Female

Desired employment / Occupational field

Work experience

Dates	November 2002 onwards
Occupation or position held	Research Scientist
Main activities and responsibilities	PhD student in Optics, Spectroscopy, Lasers, at University of Bucharest, Physics Faculty
Name and address of employer	National Institute for Lasers, Plasma and Radiation Physics; Lasers Department, 409 Atomistilor str., com. Magurele, Jud. Ilfov, 077125, Romania
Type of business or sector	Research and Education
Dates	October 2001 onwards
Occupation or position held	Research Scientist
Main activities and responsibilities	Laser spectroscopy. Lasers applications in life sciences. Research activity in Laser Spectroscopy Group's projects
Name and address of employer	National Institute for Lasers, Plasma and Radiation Physics; Lasers Department, 409 Atomistilor str., Magurele, Jud. Ilfov, 077125, Romania
Type of business or sector	Research and Education
Dates	September 1996 – October 2001
Occupation or position held	Assistant Research Scientist
Main activities and responsibilities	Research activity in Laser Spectroscopy Groups projects
Name and address of employer	National Institute for Lasers, Plasma and Radiation Physics; Lasers Department, 409 Atomistilor str., com. Magurele, Jud. Ilfov, 077125, Romania
Type of business or sector	Research
Dates	September 1995 – July 1996
Occupation or position held	Professor
Main activities and responsibilities	French Language Professor
Name and address of employer	Theoretic College Pogoanele, Unirii str., Pogoanele, jud. Buzau, Romania

Type of business or sector	Education
Education and training	
Dates	May 23 th – June 11 th
Title of qualification awarded	None
Principal subjects/occupational skills covered	NMR studies of molecular formations obtained by exposure to laser radiation in solutions of medicines in water
Name and type of organisation providing education and training	Faculty of Pharmacy, Ankara University, Ankara, Turkey
Level in national or international classification	None
Dates	01 – 05 June 2009
Title of qualification awarded	Graduation certificate
Principal subjects/occupational skills covered	Training on Optofluidics
Name and type of organisation providing education and training	The Abdus Salam International Centre for Theoretical Physics – Trieste, Italy
Level in national or international classification	None
Dates	17 – 19 September 2008
Title of qualification awarded	Graduation certificate
Principal subjects/occupational skills covered	Training Course on Infrared Spectrometry
Name and type of organisation providing education and training	Comporter S.R.L., Bucharest
Level in national or international classification	None
Dates	03 – 05 Decembre 2007
Title of qualification awarded	Graduation certificate
Principal subjects/occupational skills covered	Training Course on μ Builder/INTEGRAM plus
Name and type of organisation providing education and training	National Institute for Research and Development in Microtechnologies, Bucharest
Level in national or international classification	None
Dates	October 1995 – July 1996
Title of qualification awarded	Post university graduate in engineering
Principal subjects/occupational skills covered	Specialization in "The impact of production and use of energy concerning the environment and society";
Name and type of organisation providing education and training	Polytechnic University of Bucharest, Faculty of Energetic, Romania
Level in national or international classification	Master
Dates	October 1990 – July 1995
Title of qualification awarded	University graduate in engineering
Principal subjects/occupational skills covered	Environmental Engineering; Hydropower Engineering
Name and type of organisation providing education and training	University Politehnica of Bucharest, Faculty of Energetic, Romania

Level in national or international classification	Bachelor degree									
Personal skills and competences										
Mother tongue(s)	Romanian									
Other language(s)										
Self-assessment	Understanding				Speaking				Writing	
<i>European level (*)</i>	Listening		Reading		Spoken interaction		Spoken production		Writing	
English	C1	Proficient user	C2	Proficient user	B2	Independent user	B2	Independent user	C1	Proficient user
French	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user
Social skills and competences	Team work									
Computer skills and competences	Microsoft Office, web sites content, Coreldraw / other graphics programs, Origin, etc.									
Artistic skills and competences	At advised amateur level: music, literature.									
Other skills and competences	Cooking, baby care									
Driving licence	Category B, since 2006.									
Additional information	Publications (see Annex 1)									
Annexes	ANNEX 1: PUBLICATIONS AND PARTICIPATION IN CONFERENCES									

PUBLICATIONS

1. M.L.Pascu, N.Moise, A.Smarandache, Laser induced fluorescence of oil components in water, Rom. J. Phys., vol.43, No. 1-2, p.169-180, (1998);
2. N. Moise, L. Voicu, T. Negoita, A. Smarandache, G. Manolescu, Laser monitoring of pesticides in water, Proc. SPIE, vol. 3405, pag. 1210-1223, (1998);
3. Studies on activated cytostatics with optical beams used in the eye tumours treatment, M.L.Pascu, B.Carstocea, M.Brezeanu, D.Gazdaru, L.Voicu, A.Smarandache, An Univ Buc, (2003);
4. M.L.Pascu, M. Brezeanu, B.Carstocea, L.Voicu, D. Gazdaru, A.Smarandache, The modification of spectral characteristics of cytostatics by optical beams, Proc. SPIE, Vol. 5581, 690 (2004);R.A.Pascu, M.Trifu, M.Dumitrescu, A.Mahamoud, A.Staicu, M. Dicu, A.Smarandache, B.Carstocea, M.L.Pascu, In vivo studies of the effects of alkyl substituted Benzo[b]pyridinium compounds exposed to optical radiation I, AIP Conference Proceedings, Volume 1142, pp. 8-14 (2009);Adriana Smarandache, Ruxandra Angela Pascu, Andra Militaru, M. L. Pascu, Modifications of the medicines molecular structures by bulk exposure to optical radiation, Lasers in Medical Science, vol. 24, Suppl. 1, (oct 2009);I. R. Andrei, Adriana Smarandache, J. M. Pages, A. Mahamoud, M. L. Pascu, Stability of the molecular structures of medicines delivered in microdroplets solutions, Lasers in Medical Science, vol. 24, Suppl. 1, (oct 2009);
8. M.L. Pascu, I.R. Andrei, M. Ferrari, Angela Staicu, Adriana Smarandache, A. Mahamoud, V. Nastasa, L. Liggieri, Laser beams resonant interaction with micro-droplets which have a controlled content, Colloids and Surfaces A: Physicochem. Eng. Aspects, Vol. 365, nr. 1-3, pag. 83-88, (2010);
9. Jacqueline Chevalier, Abdallah Mahamoud, Milad Baitiche, Elissavet Adam, Miguel Viveiros, Adriana Smarandache, Andra Militaru, Mihail L. Pascu, Leonard Amaral, Jean-Marie Pagès, Quinazoline derivatives are efficient chemosensitizers of antibiotic activity in Enterobacter aerogenes, Klebsiella pneumoniae and Pseudomonas aeruginosa resistant strains, International Journal of Antimicrobial Agents, Vol. 36, nr. 2, p. 164-168, (2010);
10. A. Smarandache, M. Trelles, M. L. Pascu, Measurement of the modifications of Polidocanol absorption spectra after exposure to NIR laser radiation, Journal of Optoelectronics and Advanced Materials Vol. 12, No. 9, p. 1942 – 1945, (2010);Andra Militaru, Adriana Smarandache, Abdallah Mahamoud, Sandrine Alibert, Jean-Marie Pagès, Mihail-Lucian Pascu, Time Stability Studies of Quinazoline Derivative Designed to Fight Drug Resistance Acquired by Bacteria, Letters in Drug Design & Discovery, 8, (2011);
12. Mihail-Lucian Pascu, Viorel Nastasa, Adriana Smarandache, Andra Militaru, Ana Martins, Miguel Viveiros, Mihai Boni, Ionut Relu Andrei, Alexandru Pascu, Angela Staicu, Joseph Molnar, Seamus Fanning, Leonard Amaral, Direct Modification of Bioactive Phenothiazines by Exposure to Laser Radiation, *Recent Patents on Anti-Infective Drug Discovery*, Vol.6, Nr.2, pag. 147-157, (2011);
13. Adriana Smarandache, M.Trelles, V.Nastasa, M.L.Pascu, Study of Commercial Grade Aetoxiscrolol by Optical Means, in View of Its Use in Varicose Vein Treatment, *AIP Conference Proceedings*, Vol.1364, Nr.117, (2011);
14. Militaru, A. Smarandache, A. Mahamoud &al. Stability characterization of quinazoline derivative BG1188 by optical methods, *AIP Conf. Proc.* 1364, 117, (2011);
15. Mario A. Trelles, Javier Moreno-Moraga, Justo M. Alcolea, Adriana Smarandache, Mihail L. Pascu, Laser in Leg Veins: our personal approach of treatment, in *Synopsis of Aesthetic Dermatology & Cosmetic Surgery*, Nova Science Publishers Inc, NY, USA, (2011), in press;
16. M.L. Pascu, Adriana Smarandache, M. Boni, Jette Kristiansen, V. Nastasa, I. R. Andrei, Spectral properties of molecular solutions, *Romanian Reports in Physics*, Vol. 63, Supplement, pag. 1267–1284 (2011);
17. M.L. Pascu, A. Smarandache, J. Kristiansen, A. Militaru, V. Nastasa, L. Amaral, Phenothiazines Molecular Modifications At Interaction With Laser Beams, *Lasers Med Sci* 26, Suppl 1: S25 (2011);
18. Adriana Smarandache, Jette Kristiansen, Mihail-Lucian Pascu, Optical Studies of the Spectral Properties of Phenothiazines accepted for publication in *Letters in Drug Design & Discovery*, Vol.9, Nr. 4 (2012);
19. Adriana Smarandache, Javier Moreno-Moraga, Angela Staicu, Mario Trelles, Mihail-Lucian Pascu, Applications of Polidocanol in varicose vein treatment assisted by exposure to Nd:YAG laser radiation, in *Nd YAG Laser*, InTech, Croatia, (2012), ISBN 979-953-307-327-8, in press;
20. Adriana Smarandache, Laser Beams Interaction with Polidocanol Foam: Molecular Background accepted for publication in *Photomedicine and Laser Surgery*, (2012).

PARTICIPATION IN CONFERENCES:

1. N. Moise, L. Voicu, T. Negoita, A. Smarandache, G. Manolescu, Laser monitoring of pesticides in water, V-th International Conference ROMOPTO, 1997, Bucharest, Romania;
2. M.Brezeanu, M.L.Pascu, B.Carstocea, D.M.Gazdaru, L.Voicu and A.Smarandache, Studies on activated fluorouracil with optical beams, for use in the eye tumours treatment, Annual Scientific Conference of Faculty of Physics, University of Bucharest, 2003, Bucharest, Romania,;
3. M.Brezeanu, M.L.Pascu, B.Carstocea, L.Voicu, A. Smarandache and D.M.Gazdaru, The modification of spectral characteristics of cytostatics by optical beams, 7th International Conference on Optics-ROMOPTO, 2003, Constanta, Romania;
4. M.L.Pascu, L.Danaila, L.Voicu, M.Brezeanu, A.Staicu, A.Smarandache and R.M.Ion, Contribution to the spectroscopic studies of the metalloporphyrins used in photodynamic therapy (poster) - Metal Compounds in the Treatment of the Cancer and Viral Diseases Conference, 2003 Trieste, Italy;

5. M.L.Pascu, B.Carstocea, M.Brezeanu, L.Voicu, A.Smarandache, D.Gazdaru and R. A. Pascu, Studies on activated cytosstatic fluorouracil as photosensitizer: to use in the eye tumors treatment, Laser Florence 2003 -18th International Congress Laser Medicine, 2003, Florence, Italy;
6. M.L.Pascu, M. Brezeanu, B.Carstocea, L.Voicu, D. Gazdaru, A.Smarandache, The modification of spectral characteristics of cytostatics by optical beams, ROMOPTO 2003: Seventh Conference on Optics, 8-11 September, 2003, Constanta, Romania;
7. R. A. Pascu, M. Trifu, M. Dumitrescu, A. Mahamoud, A. Staicu, M. Dicu, D.GAZDARU, A.Smarandache, B.Carstocea, M.L.Pascu, Effects of the alkyl substituted benzo [b]pyridinium compounds exposed to optical radiation, INDLAS Conference, "MODERN LASER APPLICATIONS", May 2008, Bran, Romania;
8. Adriana Smarandache, Ruxandra Angela Pascu, Andra Militaru, M.L.Pascu, Modifications of the medicines molecular structures by bulk exposure to optical radiation, Laser Florence 2009, 6-7 nov. 2009, Florence, Italy;
9. I.R.Andrei, Adriana Smarandache, J.M.Pages, A. Mahamoud, M.L.Pascu, Stability of the molecular structures of medicines delivered in microdroplets solutions, Laser Florence 2009, 6-7 nov. 2009, Florence, Italy;
10. I.R.Andrei, A. Smarandache, M.L.Pascu, Water microdroplets behaviour at interaction with laser beams, International Workshop Bubble and Drop Interfaces, Sept 23-25, 2009, Thesaloniki, Grece;
11. M. Dicu, A. Staicu, A. Smarandache, I. R. Andrei, M. Ferrari, L. Liggieri, L. Frunza, M. L. Pascu, Spectral studies of medicines to be delivered in microdroplets form, Joint Conference of the 7th MC & WG Meetings. COST ACTION P21 „The physics of droplets”, May 4-6 2009, Bucharest, Romania;
12. M.L. Pascu, Adriana Smarandache, I.R. Andrei, V. Nastasa, C. Ticos, Microdroplets behaviour when exposed to laser radiation field – Invited presentation Micro- to Nano-Photonics II- ROMOPTO 2009, 31 August-3 Sept. 2009, Sibiu, Romania;
13. Adriana Smarandache, Andra Militaru, A. Mahamoud, Sandrine Alibert, M.L. Pascu, J.M. Pages, Stability studies performed on quinazoline derivative BG1188, Conference on Antibiotic transport and efflux: new strategies to combat bacterial resistance, COST Action BM0701 – ATENS, December 2009, Dublin, Ireland;
14. M. Trelles, Adriana Smarandache and M.L.Pascu, Studies of the optical properties of the commercial grade Aetoxisclerol, LASER Europe 2010, 6-8 May 2010, Tarragona, Spain;
15. Adriana Smarandache, M. Trelles and M.L.Pascu, Measurement of the modifications of polidocanol absorption spectra after exposure to NIR laser radiation, ISWLA 2010, May 2010, Bran, Romania;
16. Militaru, Andra, Smarandache, Adriana, Mahamoud, Abdallah, Damian, Victor, Alibert, Sandrine, Pascu, Mihail-Lucian, Pagès, Jean-Marie, Time evolution of quinazoline derivative BG1188, *ISWLA 2010, May 2010, Bran, Romania*;
17. M. Trelles, Adriana Smarandache, J. Moreno-Moraga, M.L.Pascu, Studies of the optical properties of the commercial grade Aetoxisclerol, Annual Scientific Conference of Faculty of Physics, University of Bucharest, *June 2010, Bucharest, Romania*;
18. Andra Militaru, Adriana Smarandache, M.L.Pascu & all, Wire-like formations produced in BG1188 solutions: Optical and Electron Microscopy measurements, 462nd WE Heraeus Seminar "Transport across membranes. Multiple drug resistance, mechanisms and new tools", 4-10 July 2010, Bremen, Germany;
19. Andra Militaru, Adriana Smarandache, M.L.Pascu & all, Characterization of stability of BG 1188 compound in ultrapure water and DMSO by spectral studies, COSTAction BM0701 – ATENS, 8-10 July 2010, Bremen, Germany;
20. Mihail Lucian Pascu, Angela Staicu, Viorel Nastasa, Adriana Smarandache, Andra Militaru, Alexandru Pascu, Ionut Relu Andrei, Mihai Boni, Marieta Costache, Jean- Marie Pages, Jacques Barbe, Sandrine Alibert, Abdallah Mahamoud, Michele Ferrari, Silvia Rao, Libero Liggieri, Leonard Amaral, Laser and Optical Techniques Used to Modify Molecular Structures of Medicines, Progress in studies on ABC transport inhibition Symposium at Chemical Research Center, Hungarian Academy of Sciences, April 2010, Budapest, Hungary;
21. M.L.Pascu, L. Amaral, V.Nastasa, A. Militaru, A. Smarandache, Improvement of phenothiazines efficiency on MDR bacteria, after exposure to laser radiation, Laser Florence 2010, 1-3 November 2010, Florence Italy;
22. A. Smarandache, V.Nastasa, M. Trelles, J. Moreno-Moraga, M.L.Pascu, Study of commercial grade Aetoxisclerol by optical means, in view of its use in varicose vein treatment, Laser Florence 2010, 1-3 November 2010, Florence Italy;
23. A. Militaru, A. Smarandache, V. Nastasa, A. Mahamoud, V. Damian, N. Popescu-Pogrión, S. Alibert, F. Vasiliu, J.M. Pages, M.L. Pascu, Stability characterization of quinazoline derivative BG1188 by optical methods, Laser Florence 2010, 1-3 November 2010, Florence Italy;
24. Adriana Smarandache, Jette Kristiansen, M.L.Pascu, Studies of the spectral properties of Phenothiazines, ISWLA 2011, 30 May-3 June 2011, Bran, Romania;
25. M. L. Pascu, I. R. Andrei, Adriana Smarandache, C. Ticos, V. Nastasa, Unresonant interaction of laser beams with microdroplets, EOSOF 2011, 23-25 May 2011, Munich, Germany;
26. M. L. Pascu, V. Nastasa, Andra Militaru, Angela Staicu, Adriana Smarandache, S. Fanning, L. Amaral, Fighting Multiple Drug Resistance of bacteria by treatment with Chlorpromazine modified by exposure to laser radiation, EOSOF 2011, 23-25 May 2011, Munich, Germany;
27. Smarandache Adriana, Nastasa Viorel, Staicu Angela, Trelles Mario, Moreno-Moraga, Javier, Karapantsios, Thodoris, Pascu, Mihail-Lucian, Comparison of the experimental techniques used to obtain foams out of medicines solutions, ISWLA 2011, 30 May-3 June 2011, Bran, Romania;
28. Adriana Smarandache, M. Trelles, J. Moreno-Moraga, Angela Staicu, M.L. Pascu, Comparative study of the Raman spectra of Polidocanol in liquid phase and in foam, Annual Scientific Conference of Faculty of Physics, University of Bucharest, *June 2011, Bucharest, Romania*;
29. Smarandache, A.; Trelles, M.; Staicu, A.; Moreno-Moraga, J. & Pascu, M.L. Laser beams interaction with Polidocanol foam: physical bases, *SELMQ 2011- XIX Congreso Sociedad Espanola de Laser Medico Quirurgico*, 8 – 10 July 2011, Jerez de la Frontera, Spain;
30. M.L. Pascu, A.Smarandache, J.Kristiansen, A.Militaru, V. Nastasa, L. Amaral, Phenothiazines molecular modifications at interaction with modifications at interaction with laser beams, LASER FLORENCE 2011, 3-6 november 2011, Florence, Italy (invited lecture)
31. Adriana Smarandache, LASER BEAM EXPOSURE OF MEDICINES: ROMANIAN EXPERIENCE, Faculty of Pharmacy, Ankara University, May 27, 2011, Ankara, Turkey (invited lecture);

32. A.Militaru, A. Smarandache, L. Frunza, J.M. Pages, M.L. Pascu, Sensibility properties of medicines solutions: spectral evidence and wire like formation, ISWLA 2011, May 31 – June 4, 2011, Bran, Romania;
33. G. Popescu, A.Smarandache, A.Militaru, M.L.Pascu, In silico modeling and analysis of EPI activity of laser irradiated drugs, 6th Management Committee Meeting and WGs meeting COST Action BM0701– 6-7 December, Bruxelles, Belgium (invited lecture);
34. Adriana Smarandache, NMR studies of molecular formations obtained by exposure to laser radiation in solutions of medicine, 6th Management Committee Meeting and WGs meeting COST Action BM0701– 6-7 December, Bruxelles, Belgium.

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