



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

Work experience

Dates	June 2014 – December 2015
Occupation or position held	Post-doc Researcher
Main activities and responsibilities	Grant POSDRU/159/1.5/S/ 137750 Study of the behavior of non-antibiotics solutions in microdroplets exposed to laser radiation for biomedical applications
Name and address of employer	University of Bucharest
Type of business or sector	Research and Education
Dates	December 2012 onwards
Occupation or position held	Research Scientist (CSIII)
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., com. Magurele, Jud. Ilfov, 077125, Romania
Type of business or sector	Research and Education
Dates	October 2001 – December 2012
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	Substitute Professor
Main activities and responsibilities	French Language Substitute 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	14.05. – 18.05.2018
Title of qualification awarded	Graduation certificate
Principal subjects/occupational skills covered	Work training on LC-MSD Q-TOF equipment
Name and type of organisation providing education and training	Agilent Technologies
Level in national or international classification	None
Dates	November 2002 -November 2011
Title of qualification awarded	PhD in Science (Physics)
Principal subjects/occupational skills covered	Optics. Spectroscopy
Name and type of organisation providing education and training	University of Bucharest, Romania
Level in national or international classification	PhD
Dates	May 23 th – June 11 th 2011
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 µBuilder/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	University Politehnica of Bucharest, Faculty of Power Engineering, Romania
Level in national or international classification	Master degree
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 Power Engineering, Romania
Level in national or international classification	Bachelor degree

Personal skills and competences

Mother tongue(s) Romanian

Other language(s)

Self-assessment

European level ()*

English

French

German

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production		Writing	
B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user
B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user
A2	Basic user	A2	Basic user	A2	Basic user	A2	Basic user	A2	Basic user

Social skills and competences Team work, organizational skills

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	Teaching, Cooking
Driving licence	B Category, 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. M.L.Pascu, B.Carstocea, M.Brezeanu, D.Gazdaru, L.Voicu, **A.Smarandache**, Studies on activated fluorouracyl with optical beams, for use in the eye tumours treatment, Romanian Reports in Physics, Vol.55, Nr. 3, pag. 445-450, (2003);
4. M.L.Pascu, B.Carstocea, M.Brezeanu, D.Gazdaru, L.Voicu, **A.Smarandache**, Studies on activated cytostatics with optical beams used in the eye tumours treatment, An Univ Buc, (2003);
5. 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.Mahamound, 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);
9. 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);
10. 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);
11. **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, 124-129, (2011);
13. 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);
14. **Adriana Smarandache**, M.Trelles, V.Nastasa, M.L.Pascu, Study of Commercial Grade Aetoxisclerol by Optical Means, in View of Its Use in Varicose Vein Treatment, *AIP Conference Proceedings*, Vol.1364, Nr.117, (2011);
15. Militaru, **A. Smarandache**, A. Mahamoud &al. Stability characterization of quinazoline derivative BG1188 by optical methods, *AIP Conf. Proc.* 1364, 117, (2011);
16. 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, (2013);
17. 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);
18. 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);
19. **Adriana Smarandache**, Jette Kristiansen, Mihail-Lucian Pascu, Optical Studies of the Spectral Properties of Phenothiazines, *Letters in Drug Design & Discovery*, Vol.9, Nr. 4 (2012);
20. **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,cap. 12, pag. 233-255, 2012;
21. **Adriana Smarandache**, Laser Beams Interaction with Polidocanol Foam: Molecular Background, *Photomedicine and Laser Surgery*, May 2012, Vol. 30, No. 5: 262-267 (2012).
22. M. Boni, V. Nastasa, Andra Militaru, **Adriana Smarandache**, I.R. Andrei, Angela Staicu, M.L. Pascu, Laser beams interaction with liquids in optofluidic experiments, , Romanian reports in physics, Vol.64, suppl., p. 1179-1194, 2012.
23. **Adriana Smarandache**, Andra Militaru, Hakan Goker, Alexandru Pascu, Mihail-Lucian Pascu, Laser methods for pharmaceutical pollutants removal, , SPIE Conf. Proc., Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies VI (ATOM-N 2012), Constanta, Romania, 2012.
24. Javier Moreno-Moraga, Esteban Hernández, Josefina Royo, Justo Alcolea, M. Jose Isarría, Mihail Lucian Pascu, **Adriana Smarandache**, Mario Trelles, Optimal and safe treatment of spider leg veins measuring less than 1.5 mm on skin type IV patients, using repeated low-fluence Nd:YAG laser pulses after polidocanol injection, *Lasers in Medical Science*, Volume: 28 Issue: 3 Pages: 925-933 DOI: 10.1007/s10103-012-1180-6 Published: MAY 2013.
25. Javier Moreno-Moraga, **Adriana Smarandache**, Mihail L Pascu, Josefina Royo and Mario A Trelles, 1064 nm Nd:YAG long pulse laser after polidocanol microfoam injection dramatically improves the result of leg vein treatment: A randomized controlled trial on 517 legs with a three-year follow- up, *Phlebology*, 29 (10): 658-66, 2014.
26. Mihail Lucian Pascu, Ruxandra, Mihaela Oana Romanitan, **Adriana Smarandache**, Laser induced fluorescence in biomedicine in L. Longo (Ed.) *Laser Manual - Medical Technology*, OEO, Florence, Italy 2014.

27. V. Nastasa, K. Samaras, Ch. Ampatzidis, T.D. Karapantsios, M.A. Trelles, J. Moreno-Moraga, **A. Smarandache**, M.L. Pascu, Properties of polydocal foam in view of its use in sclerotherapy, *International Journal of Pharmaceutics* 478: 588–596, 2015.
28. **Adriana Smarandache**, Agota Simon, Tatiana Tozar, Viorel Nastasa, Mihail Lucian Pascu, Stability studies on Promethazine unexposed and exposed to UV laser radiation, *Proc. SPIE. 9549, Physical Chemistry of Interfaces and Nanomaterials XIV*, 954916. (September 10, 2015) doi: 10.1117/12.2189289
29. J Moreno-Moraga, **A Smarandache**, ML Pascu, Kombination von Polidocanol und Laser verbessert Outcome bei Teleangiektasien und retikulären Venen deutlich, *Gefäßmedizin Scan*, 2(02):130-131, 2015;
30. **Adriana Smarandache**, Viorel Nastasa, Mihai Boni, Angela Staicu, Jadwiga Handzlik, Katarzyna Kiec-Kononowicz, Leonard Amaral, Mihail-Lucian Pascu, Laser beam resonant interaction of new hydantoin derivatives droplets for possible biomedical applications, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 505 : 37-46, 2016;
31. **A. Smarandache**, A. Staicu, V. Nastasa, J. Moreno-Moraga, J.R. De La Torre, M. Trelles, M.L. Pascu, Physical properties of laser irradiated sclerosing foams, *Romanian Reports in Physics*, 67 (4), 2015;
32. M. Carmen Morán, Tatiana Tozar, Agota Simon, Andra Dinache, **Adriana Smarandache**, Ionut Relu Andrei, Mihai Boni, Mihail Lucian Pascu, Francesca Cirisano, Michele Ferrari, Toxicity study in blood and tumor cells of laser produced medicines for application in fabrics, *Colloids and Surfaces B: Biointerfaces*, 137, 91-103, 2016;
33. Nastasa, V; Pascu, A; Boni, M; **Smarandache, A**; Staicu, A; Pascu, ML; Insights into the Photophysics of Zinc Phthalocyanine and Photogenerated Singlet Oxygen in DMSO-water mixture; *Colloids and Surfaces A: Physicochemical And Engineering Aspects* 505: 197-203, 2016;
34. **Smarandache, A**; Pascu, A; Andrei, IR; Handzlik, J; Kiec-Kononowicz, K; Staicu, A; Pascu ML; Study of the optical properties of 2-thiohydantoin derivatives; *Romanian Reports In Physics*, 68(2): 673-683, 2016;
35. **Adriana Smarandache**, Mihai Boni, Ionut Relu Andrei, Jadwiga Handzlik, Katarzyna Kiec-Kononowicz, Angela Staicu, Mihail-Lucian Pascu; Spectroscopic investigations of novel pharmaceuticals: Stability and resonant interaction with laser beam, *Applied Surface Science* 417, 143-148, 2017;
36. M Boni, A Staicu, IR Andrei, **A Smarandache**, V Nastasa, M Comor, Z Saponjic, ML Pascu, Studies on laser induced emission of microdroplets containing Rhodamine 6G solutions in water doped with TiO2 nanoparticles, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 519, 238-244, 2017;
37. A Staicu, **A Smarandache**, A Pascu, ML Pascu, Photophysics of covalently functionalized single wall carbon nanotubes with verteporfin, *Applied Surface Science* 417, 170-174, 2017;
38. A Dinache, **A Smarandache**, A Simon, V Nastasa, T Tozar, A Pascu, et al., Photosensitized cleavage of some olefins as potential linkers to be used in drug delivery, *Applied Surface Science* 417, 136-142, 2017;
39. V Nastasa, M Boni, A Stoicu, A Dinache, **Adriana Smarandache**, Mihail Lucian Pascu, *Lasers in Foams and Emulsions Studies in Laser Optofluidics in Fighting Multiple Drug Resistance*, ML Pascu Ed., 293, Bentham Science Publishers 2017;
40. Tatiana Tozar, Alexandru Stoicu, Viorel Nastasa, Marcela Popa, **Adriana Smarandache**, Marieta Costache, Mariana Carmen Chifiriuc, Mihail Lucian Pascu, *Application of Laser Modified Medicines in Fighting Multiple Drug Resistance Acquired by Microorganisms*, in *Laser Optofluidics in Fighting Multiple Drug Resistance*, ML Pascu Ed., 338, Bentham Science Publishers 2017;
41. Mihail Lucian Pascu, **Adriana Smarandache**, Tatiana Tozar, Ionut Relu Andrei, *Spectroscopy of Microdroplets: An Alternative to the Spectroscopy of Bulky Materials*, in *Laser Optofluidics in Fighting Multiple Drug Resistance*, ML Pascu Ed., 471, Bentham Science Publishers 2017;
42. Mihail Lucian Pascu, Mihai Boni, Tatiana Tozar, **Adriana Smarandache**, Alexandru Stoicu and Ionut Relu Andrei, *Resonant Interaction of Laser Beams with Pendant Droplets*, in *Laser Optofluidics in Fighting Multiple Drug Resistance*, ML Pascu Ed., 184, Bentham Science Publishers 2017;
43. Angela Staicu, **Adriana Smarandache**, Tatiana Tozar, Alexandru Stoicu, Ruxandra Pirvulescu and Mihail Lucian Pascu, *Interaction of Laser Beams with Medicine Solutions in Bulk*, in *Laser Optofluidics in Fighting Multiple Drug Resistance*, ML Pascu Ed., 250, Bentham Science Publishers 2017;
44. **Adriana Smarandache**, R Moeller, ML Pascu, Uv-Vis and FTIR Spectroscopic Investigations of Gamma-Ray Irradiated Antibiotics, *Romanian Report of Physics*, 70(3), 602, 2018;
45. M Boni, Angela Staicu, IR Andrei, **Adriana Smarandache**, V Nastasa, Z Saponjic, ML Pascu, *TiO2 Nanoparticles Influence on Rhodamine 6G Droplet Emission*, in press in *Romanian Report of Physics*, available on-line: <http://www.rrp.infim.ro/IP/A317.pdf>;
46. Tatiana Tozar, **Adriana Smarandache**, Mihail Lucian Pascu, Angela Staicu and Ruxandra Angela Pirvulescu, *Laser Modified Phenothiazines and Hydantoin: Photo-products Characterisation and Application on Animal Eyes Pseudo-tumours*, *Letters in Drug Design & Discovery*, 15, 687-697, 2018;
47. **Adriana Smarandache**, Angela Staicu, Andra Dinache, Ionut Relu Andrei, Ruxandra Angela Pirvulescu, Mihail Lucian Pascu, *Optical Irradiation of Cytostatics: Photoproducts Characterization and Tests on Rabbit Eye Pseudotumors*, accepted in *Proc. Romanian Acad. A* 2018;

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 cytostatic 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; Poster presentation.
33. Pascu, M.L., Staicu, Angela, Nuta, Alexandrina, Pascu, A., **Smarandache, Adriana**. Spectroscopical determination of photophysical parameters for non-fluorescent Phthalocyanine compounds, further laser excitation in the Soret band. ISWLA 2011, May 31 – June 4, 2011, Bran, Romania;
34. 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);
35. **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; Oral presentation.
36. **Adriana Smarandache**, M. Trelles, J. Moreno-Moraga, Angela Staicu, M.L. Pascu, Laser beams interaction with pharmaceutical foams: Aethoxysklerol case, ISCP 2012, 8-11 mai 2012, Sinaia, Romania; Oral presentation.
37. **Adriana Smarandache**, Andra Militaru, Hakan Goker, Alexandru Pascu, Mihail-Lucian Pascu, Laser methods for pharmaceutical pollutants removal, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies VI (ATOM-N 2012), August 2012, Constanta, Romania (invited lecture).
38. A. Militaru, **A. Smarandache**, S. Alibert, A. Mahamoud, V. Damian, M. Filipescu, L. Frunza, J. M. Pages, M. L. Pascu Quinazoline derivatives designed as antimicrobials: spectroscopic studies and microscopy evidence of micro-aggregates formation, *11th International Conference on Antimicrobial Research – ICAR2012*, November 2012 Lisbon, Portugal. Poster presentation.
39. **Smarandache Adriana**, Pascu A., Andrei I., Handzlik Jadwiga, Kiec-Kononowicz Katarzyna, Staicu Angela, Pascu M.L. Study of the optical properties of 2-Thiohydantoin derivatives, International Student Conference on Photonics (ISCP 2013), satellite of the International Conference "Modern Laser Applications" (INDLAS 2013), May 20-24, Bran, Romania. Oral presentation.
40. Agota Simon, **Adriana Smarandache**, Tatiana Alexandru, Viorel Nastasa, Mihail Lucian Pascu. Studies about the stability of Promethazine hydrochloride exposed to 266 nm laser beam, International Student Conference on Photonics (ISCP 2013), satellite of the International Conference "Modern Laser Applications" (INDLAS 2013), May 20-24, Bran, Romania. Poster presentation.
41. **Smarandache Adriana**, Nastasa Viorel, Handzlik Jadwiga, Kiec-Kononowicz Katarzyna, James G. Grote, Mihail-Lucian Pascu, Spectroscopic studies of unexplored imidazolidines in view of their DNA binding affinity characterization, International Conference "Modern laser applications" Fourth Edition, 19-23 May 2014 Bran, Romania. Oral presentation.
42. **Smarandache Adriana**, Nastasa Viorel, Stoicu Alexandru, Handzlik Jadwiga, Kiec-Kononowicz Katarzyna, Mihail-Lucian Pascu, Spectroscopic study and molecular structure modeling of new hydantoin derivatives, Annual Scientific Conference of Faculty of Physics, June 2014, Măgurele, Romania. Oral presentation.
43. **A. Smarandache**, A. Dinache, V. Nastasa, I. R. Andrei, J. Handzlik, K. Kiec-Kononowicz, A. Staicu, J.-M. Pages, M.L. Pascu, Spectroscopic investigations of new anticancer drugs and their behavior at the incidence with laser radiation, SPEC 2014 Shedding New Light on Disease, 17 – 22 August 2014, Krakow, Poland; Oral presentation
44. V. Nastasa, **A. Smarandache**, K. Samaras, T.D. Karapantsios, M.L. Pascu, Study of colloidal systems properties in view of their use in medical treatments, 5th International Student Conference on Photonics, 23rd - 26th September 2014, Orastie, Romania. Oral presentation.
45. **A. Smarandache**, V. Nastasa, J. Handzlik, K. Kiec-Kononowicz, J.G. Grote, M.L. Pascu, Characterization and DNA binding studies of new hydantoin derivatives by electronic spectroscopy, 5th International Student Conference on Photonics, 23rd - 26th September 2014, Orastie, Romania. Oral presentation.
46. A. Staicu, A. Dinache, T. Alexandru, A. Pascu, **A. Smarandache**, V. Nastasa, M. Boni, A. Simon, F. Sima, M. Enescu, M. L. Pascu, Photodynamic studies of some molecules of interest in drug carrier systems, 5th International Student Conference on Photonics, 23rd - 26th September 2014, Orastie, Romania. Invited presentation.
47. **A. Smarandache**, V. Nastasa, A. Stoicu, J. Handzlik, K. Kiec-Kononowicz, M.L. Pascu, Spectroscopic and DFT studies of a new hydantoin derivative molecular structure, 5th International Student Conference on Photonics, 23rd - 26th September 2014, Orastie, Romania. Poster presentation.
48. V. Nastasa, M. Boni, **A. Smarandache**, T. Alexandru, A. Staicu, I.R. Andrei, A. Dinache, Z. Saponjic, M.L. Pascu, Laser photocatalytic effect of TiO₂ nanoparticles for water pollutants removal, Smart and green interfaces- Conference 2015, March 2015, Belgrade, Serbia Poster presentation.
49. **Adriana Smarandache**, Angela Staicu, V. Nastasa, J. Moreno-Moraga, J. Royo de la Torre, M. Trelles, M.L.Pascu, Laser irradiated Polidocanol foam for sclerotherapy, ISRMS, Buchraest, May 2015. Oral presentation.
50. **Adriana Smarandache**, Mihai Boni, Viorel Nastasa, Ionut R. Andrei, Jadwiga Handzlik, Katarzyna Kiec-Kononowicz, Leonard Amaral, Mihail Lucian Pascu; Investigations on the interaction of unexplored hydantoin derivatives solutions with optical beams, Annual Scientific Conference of Faculty of Physics, June 2015, Măgurele, Romania. Oral presentation
51. **Adriana Smarandache**, Agota Simon, Andra Dinache, Tatiana Tozar, Mihai Boni, Ionut R. Andrei, M. Carmen Morán, Francesca Cirisano, Michele Ferrari, Mihail Lucian Pascu; Stability of new laser produced medicines in view of their application on biomedical fabrics Annual Scientific Conference of Faculty of Physics, June 2015, Măgurele, Romania. Oral presentation.
52. V. Nastasa, **A.Smarandache**, K. Samaras, T. D. Karapantsios, M.L. Pascu, Stability evaluation of colloidal systems for medical treatments, Annual Scientific Conference of Faculty of Physics, June 2015, Măgurele, Romania. Oral presentation.
53. **A. Smarandache**, V. Nastasa, M. Boni, J. Handzlik, K. Kiec-Kononowicz, L. Amaral, M.L. Pascu; Light exposure influence on the wetting properties of new imidazolidine derivatives solutions; 5th International Colloids Conference 2015 "Colloid and Interface Sciences for a Brighter Future", Amsterdam, Olanda, 21-24,06,2015. Poster presentation.

54. **Adriana Smarandache**, M. Boni, V. Nastasa, I. R. Andrei, J. Handzlik, K. Kiec-Kononowicz, L. Amaral, M.L. Pascu; Laser beam resonant interaction of new hydantoin derivatives droplets for biomedical applications; Bubble & Drops 2015, Potsdam, Germany, 06-10 July 2015, Poster presentation.
55. **A. Smarandache**, A. Pascu, M. Boni, I. Andrei, J. Handzlik, K. Kiec-Kononowicz, A. Staicu, M.-L. Pascu, Spectroscopic investigations of new hydantoin derivatives and their behavior under laser beam exposure for further biomedical applications, IPTA 6 Nice, France, July 2015. Oral presentation.
56. Agota Simon, **Adriana Smarandache**, Tatiana Tozar, Viorel Nastasa, Ruxandra Pirvulescu, Mihail Lucian Pascu, Stability studies on Promethazine unexposed and exposed to UV laser radiation, Optics + Photonics, 8-12 August 2015, San Diego, USA. Oral presentation
57. V. Nastasa, **A.Smarandache**, K. Samaras, T. D. Karapantsios, M.L. Pascu, Assessment of colloidal systems stability in view of their use in medical treatments, 11 th International Conference "Micro- to Nano-Photonics IV- ROMOPTO 2015", Bucuresti, Romania, 1-4 septembrie 2015. Oral presentation.
58. T. Tozar, M. C. Morán, A. Dinache, **A. Smarandache**, I. R. Andrei, A.Simon, M. Boni, F. Cirisano, M. Ferrari, M. L. Pascu, Spectroscopic and analytical studies of Thioridazine exposed to UV laser radiation and susceptibility of bacteria to the mixture of photo-products assay , 11 th International Conference "Micro- to Nano-Photonics IV- ROMOPTO 2015", Bucuresti, Romania, 1-4 septembrie 2015. Oral presentation.
59. A. Staicu , A. Dinache, **A. Smarandache**, T. Tozar, A. Pascu, V. Nastasa, M. Boni, A. Simon , I. R. Andrei , M. Enescu , M. L. Pascu, Photophysical studies of some compounds of interest in targeted drug delivery, 11 th International Conference "Micro- to Nano-Photonics IV- ROMOPTO 2015", Bucuresti, Romania, 1-4 septembrie 2015. Invited presentation.
60. **Adriana Smarandache**, Angela Staicu , V. Nastasa, J. Moreno-Moraga, J. Royo de la Torre , M. Trelles, M. L. Pascu, Physical properties of laser irradiated sclerosing foams, 11 th International Conference "Micro- to Nano-Photonics IV- ROMOPTO 2015", Bucuresti, Romania, 1-4 septembrie 2015. Oral presentation.
61. Stoicu Alexandru, **Smarandache Adriana**, Nastasa Viorel, Handzlik Jadwiga, Kiec-Kononowicz Katarzyna, Mihail-Lucian Pascu, Experimental and model IR spectra of new hydantoin derivatives, 11 th International Conference "Micro- to Nano-Photonics IV- ROMOPTO 2015", Bucuresti, Romania, 1-4 septembrie 2015. Poster presentation.
62. Popescu Roua Gabriela, Călborean Octavian, Selescu Richard Tudor, **Smarandache Adriana Loredana**, Pascu Mihail-Lucian, Stoian Gheorghe, Quantification of Maltene and Asphaltene fractions from Crude Oils and polluted soils by Near-UV/Visible Absorption Spectroscopy, 16th European Conference on the Spectroscopy of Biological Molecules, 6-10 September 2015, Ruhr-University Bochum, Germany, Poster presentation.
63. Mihai Boni, Angela Staicu, Ionut Relu Andrei, **Adriana Smarandache**, Viorel Nastasa, Z. Saponjic, Mihail-Lucian Pascu, Studies on the laser induced emission of microdroplets containing Rhodamine 6G solutions in water doped with TiO₂ nanoparticles, Smart and green interfaces: Fundamentals and diagnostics (SGI-FunD), Sofia, Bulgaria, 29-31 October 2015. Oral presentation.
64. A. Simon, A. Stoicu, I.R. Andrei, T. Alexandru, A. Staicu, **A. Smarandache**, M.L. Pascu, Wetting properties of medicines solutions exposed to laser beams and treated in hypergravity conditions, "Smart and green interfaces: Fundamentals and diagnostics" (SGI-FunD) Symposium, 29-31 October 2015, Sofia, Bulgaria. Oral presentation.
65. V.Nastasa, K.Samaras, Ch. Ampatzidis, T.D. Karapantsios, M. A. Trelles, J. Moreno-Moraga, **A. Smarandache**, M.L.Pascu, Sclerosing foams assessment in view of their use in sclerotherapy, Smart and Green Interfaces Conference 2016, Athens, Greece, 04 – 06 May 2016, Oral presentation.
66. Angela Staicu, Mihai Boni, Ionut Relu Andrei, **Adriana Smarandache**, Viorel Nastasa, Zoran Saponjic and Mihail Lucian Pascu, Studies on the laser induced emission of pendant droplets of dye water solutions containing TiO₂ nanoparticles, Smart and Green Interfaces Conference 2016, Athens, Greece, 04 – 06 May 2016, Oral presentation.
67. **A. Smarandache**; A. Pascu; M. Boni; I. Andrei; J. Handzlik; K. Kiec-Kononowicz; A. Staicu; M.-L. Pascu; "Spectroscopic investigations of novel pharmaceuticals: stability and laser beam resonant interaction"; ICPEPA10, 29.08.2016-02.09.2016, Brasov, Romania; P46, Poster presentation.
68. A. Dinache; **A. Smarandache**; T. Alexandru; A. Pascu; V. Nastasa; A. Simon; M. Enescu; A. Khatyr; F. Sima; M.L. Pascu; A. Staicu; Photosensitized cleavage of some olefins as potential linkers to be used in drug delivery"; ICPEPA10, 29.08.2016-02.09.2016, Brasov, Romania; P41, Poster presentation.
69. V.Nastasa, K.Samaras, Ch. Ampatzidis, T.D. Karapantsios, M. A. Trelles, J. Moreno-Moraga, **A. Smarandache**, M.L.Pascu, Optical properties of sclerosing foams in view of their use in sclerotherapy, Atom-N 2016, Constanta Romania, Oral presentation.
70. Pascu, ML; Simon, A; Andrei, IR; Tozar, T; Staicu, A; Dinache, A; **Smarandache, A**; Boni, M; "Optofluidic properties of microdroplets to be used in biomedicine", IONS Balvanyos 2017, 25-28 July 2017, Covasna, Romania; Invited presentation.
71. Staicu, A; Dinache, A; **Smarandache, A**; Pascu, A; Nastasa, V; Boni, M; Simon, A; Tozar T; Andrei, IR, Enescu, M; Pascu, ML; "Light triggered drug complexes for targeted delivery", IONS Balvanyos 2017, 25-28 July 2017, Covasna, Romania; Oral presentation.
72. **A. Smarandache**, R. Moeller, M.L. Pascu, "UV-VIS and FTIR spectroscopic investigations of gamma - ray irradiated antibiotics", Annual Scientific Conference University of Bucharest, Faculty of Physics 2017 Meeting, Măgurele, Romania, 23-24 Iune 2017.
73. **A. Smarandache**, M. Boni, J. Handzlik, K. Kiec-Kononowicz, A. Staicu, M.-L. Pascu, "Laser Induced Colloidal Structures in Drugs Solutions", IONS Balvanyos 2017, Covasna, Romania, 25-28 July 2017; Poster presentation.
74. A. Dinache, **A. Smarandache**, I.R. Andrei, Ioana-Simona Stroescu, M.L. Pascu, "Colloids Generation in Medicines Solutions", IONS Balvanyos 2017, Covasna, Romania, 25-28 July 2017; Poster presentation.
75. **A. Smarandache**, M. Boni, J. Handzlik, K. Kiec-Kononowicz, A. Staicu, and M.-L. Pascu, „Laser Induced Colloidal Structures in Drugs Solutions", European Colloid and Interface Society (ECIS) Conference, Ljubljana, Slovenia, 2 - 7 September 2018; Poster presentation.
76. A. Dinache, I.R. Andrei, T. Tozar, **A. Smarandache**, I. Iordache, M. Boni, A. Staicu and M.L. Pascu, "Laser assisted device for micro/nano-emulsion production", European Colloid and Interface Society (ECIS) Conference, Ljubljana, Slovenia, 2 - 7 September 2018; Oral presentation.

77. A. Dinache, I.R. Andrei, T. Tozar, I. Iordache, **A. Smarandache**, M. Boni, A. Staicu, M.L. Pascu, „Laser Assisted Generation of Nano-Emulsions”, Joint International Student Conference on Photonics and Modern Laser Applications Conference 2018 (ISCP-INDLAS 2018) Alba Iulia, Romania, September 3-7, 2018; Poster presentation.
78. **A. Smarandache**, M. Boni, M.L. Pascu, „Spectroscopic Investigations on Fast Laser Photoinduced Molecular Modifications in Droplets Containing New Hydantoins”, Joint International Student Conference on Photonics and Modern Laser Applications Conference 2018 (ISCP-INDLAS 2018) Alba Iulia, Romania, September 3-7, 2018; Poster presentation.
79. A. Staicu, **A. Smarandache**, A. Pascu, M.L. Pascu, “Photophysics of Porphyrins Containing Nanocomplexes for Targeted Drug Delivery”, Joint International Student Conference on Photonics and Modern Laser Applications Conference 2018 (ISCP-INDLAS 2018) Alba Iulia, Romania, September 3-7, 2018; Poster presentation.

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