

1. R. A. Pascu, M. Trifu, M. Dumitrescu, A. Mahamoud, A. Staicu, B. Carstocea, M.L. Pascu, In vivo studies of the effects of alkyl substituted benzo[b]pyridinium compounds exposed to optical radiation, ROM REP PHYS, 3: 899-908, 2008.
2. R. Fumarel, G. Murgoci, P. Albert, A. Hurduc, M.L. Pascu, Increase of Cisplatin therapeutical index through optical irradiation: a case study of choroidal metastasis, ROM REP PHYS, 3: 877-884, 2008.
3. A. Pascu, M. O. Romanitan, J.M. Delgado, L. Danaila, M.L. Pascu, Laser induced fluorescence, measurements on brain tissues ANAT REC, 292: 2013-2022, 2009.
4. K. Wendel, O. Väisänen, J. Malmivuo, N. G. Gencer, B. Vanrumste, P. Durka, R. Magjarević, Selma Supek, M.L. Pascu, H. Fontenelle, R. G. de Peralta Menendez, EEG/MEG Source Imaging: Methods, Challenges, and Open Issues, COMPUT INTEL NEUROSC, 656092 2009.
5. R.A. Pascu, M. Trifu, M. Dumitrescu, A. Mahamound, A. Staicu, M. Dicu, B. Carstocea, M.L. Pascu, In vivo studies of the effects of alkyl substituted Benzo[b]pyridinium compounds exposed to optical radiation (II), J OPTOELECTRON ADV M–SYMPOSIA, 1(4): 761-766, 2009.
6. R. Fumarel, G. Murgoci, P. Albert, A. Hurduc, M.L. Pascu, Increase of Cisplatin therapeutic index through optical irradiation, J OPTOELECTRON ADV M–SYMPOSIA, 1(4): pg. 754-760, 2009.
7. R.A. Pascu, M. Trifu, M. Dumitrescu, A. Mahamound, A. Staicu, M. Dicu, B. Carstocea, M.L. Pascu In vivo studies of the effects of alkyl substituted Benzo[b]pyridinium compounds exposed to optical radiation, AIP CONF PROC, 1142: 8-14, 2009.
8. R. Fumarel, G. Murgoci, P. Albert, A. Hurduc, M.L. Pascu, Increase of Cisplatin therapeutic index through optical irradiation, JOAM – Symposia, AIP CONF PROC, 1142: 1-7, 2009.
9. L. Danaila, M.L. Pascu, The neural basis of consciousness, ANNALS OF THE ACADEMY OF ROMANIAN SCIENTISTS, 1(1): 27–60, 2009.
10. R.A.Pascu, M.Trifu, M.Dumitrescu, A. Mahamound, A.Staicu, M.Dicu, B.Carstocea, M.L. Pascu, In vivo studies of the effects of alkyl substituted Benzo[b]pyridinium compounds exposed to optical radiation, AIP Conf. Proc. (Laser Florence 2009), vol.1142, pg. 8-14, 2009.
11. R. Fumarel, G. Murgoci, P. Albert, A. Hurduc, M.L. Pascu, Increase of Cisplatin therapeutic index through optical irradiation, AIP Conf. Proc.(Laser Florence 2009), vol. 1142, pg. 1-7, 2009.
12. M. O. Romanitan, A. Pascu L. Danaila M.L. Pascu, Laser-induced autofluorescence as a diagnostic tool for use in neurosurgery, Lasers in Medical Science, vol.24, Supplement1, S10, Nov.2009.

13. M.L. Pascu, I.R. Andrei, V. Pradines, V. Nastasa, R. Miller, The generation of microdroplets as vectors to transport medicines to tissues, *Lasers in Medical Science*, vol.24, Supplement1, S14, 2009.
14. A. Smarandache, R. Pascu, A. Militaru, M.L. Pascu, Modifications of the medicines molecular structures by bulk exposure to optical radiation, *Lasers in Medical Science*, vol.24, Supplement1, S16, 2009.
15. I.R. Andrei, A. 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, Supplement1, S16, 2009.
16. R.G. Fumarel, P. Albert, A. Hurduc, N. Stafidov, M.L. Pascu, Studies on the pharmacokinetics of methotrexate by scintigraphic monitoring of [^{99m}Tc] pteridinic derivatives biodistribution, *LETT DRUG DES DISCOV*, 7(2): 98-101, 2010.
17. M.L. Pascu, I. R. Andrei, M. Ferrari, A. Smarandache, A. Staicu, A. Mahamoud, V. Nastasa, L. Liggieri, Laser beams resonant interaction with micro-droplets which have a controlled content, *COLLOID SURFACE A*, 365(1-3): 83-88, 2010.
18. J. Chevalier, A. Mahamoud, M. Baitiche, E. Adam, M. Viveiros, A. Smarandache, A. Militaru, M.L. Pascu, L. Amaral, J.-M. Pagès, Quinazoline derivatives are efficient chemosensitizers of antibiotic activity in *Enterobacter aerogenes*, *Klebsiella pneumoniae* and *Pseudomonas aeruginosa* resistant strains, *INT J ANTIMICROB AG*, [36\(2\)](#): 164-168, 2010.
19. M.L. Pascu, A. Pascu, A. Staicu, I.R. Andrei, V. Nastasa, Tunable lasers at the Laser Spectroscopy Group: short form history from the beginnings to date, *ROM REP PHYS*, 62(3): 455-480, 2010.
20. A. Smarandache, M. Trelles, M.L. Pascu, Measurement of the modifications of Polidocanol absorption spectra after exposure to NIR laser radiation *J OPTOELECTRON ADV M*, 12 (9): 1942 – 1945, 2010.
21. V. Nastasa, V. Pradines, I.R. Andrei, M. Boni, M.L. Pascu, R. Miller, Studies about the generation and characterisation of microdroplets with a controlled content, *J OPTOELECTRON ADV M-Rapid Communications*, 4(11): 1916b-1919, 2010.
22. I.R. Andrei, C. Ticos, M. Bulinski, M.L. Pascu, Chaotic behaviour in the emission of semiconductor lasers optically coupled with an external cavity, *J OPTOELECTRON ADV M*, 12(1): 63-67, 2010.
23. V. Nastasa, M.L. Pascu, T. Karapantsios, Generation of micro- and nano-droplets containing immiscible solutions in view of optical studies, *Proceedings of SPIE Vol. 7758, 77580X*, 2010.
24. V. Nastasa, T. Karapantsios, K. Samaras, E. Dafnopatidou, V. Pradines, R. Miller, M.L. Pascu, Generation of micro-and nano-droplets containing immiscible solutions in view of

- optical studies, Proc. SPIE 7758, PHYSICAL CHEMISTRY OF INTERFACES AND NANOMATERIALS IX, 77580X, 2010.
25. M.L. Pascu, A. Smarandache, M. Boni, J. Kristiansen, V. Nastasa, and I. R. Andrei, Spectral properties of molecular solutions, ROM REP PHYS, 36: 1267–1284, 2011.
 26. J.M. Pagés, M.L. Pascu, L. Amaral, B. Luisi, G. Hajós, S. Fanning, P. Henderson, “BM0701: Antibiotic transport and efflux: New strategies to combat bacterial resistance (ATENS), LETT DRUG DES DISCOV, 8(2): 101, 2011.
 27. M.L. Pascu, Hot Topic Progress in Fighting the Multidrug Resistance of Bacteria to Treatment: Editorial, LETT DRUG DES DISCOV, 8(2): 100, 2011.
 28. A. Militaru, A. Smarandache, A. Mahamoud, S. Alibert, M.L. Pascu, Time stability studies of quinazoline derivative designed to fight drug resistance acquired by bacteria, LETT DRUG DES DISCOV, 8(2):124–129, 2011.
 29. V. Nastasa, K. Samaras, I.R. Andrei, M.L. Pascu, T. Karapantsios, Study of the formation of micro and nano-droplets containing immiscible solutions, COLLOID SURFACE A, 382: 246–250, 2011.
 30. C.M. Ticos, I.R. Andrei, M.L. Pascu, M. Bulinski, Experimental control of power dropouts by current modulation in a semiconductor laser with optical feedback, PHYS SCR, 83: 055402, 2011
 31. M.L. Pascu, V. Nastasa, A. Smarandache, A. Militaru, A. Martins, M. Viveiros, M. Boni, I.R. Andrei, A. Pascu, A. Staicu, J. Molnar, S. Fanning, L. Amaral, Direct Modification of Bioactive Phenothiazines by Exposure to Laser Radiation, RECENT PAT ANTIINFECT DRUG DISCOV, 6(2): 147-157, 2011.
 32. A. Smarandache, J. Moreno-Moraga, M. Trelles, V. Nastasa, M.L. Pascu, Study of commercial grade Aetoxisclerol by optical means, in view of its use in varicose vein treatment, Advances in Laserology-Selected papers of Laser Florence 2010, AIP Conf. Proc. 1364, 117 - 124, 2011. Doi: 10.1063/1.3626907.
 33. V. Nastasa, M. Boni, I.R. Andrei, A. Staicu, L. Amaral, M.L. Pascu, Optical investigation of medicine solutions in micro-droplets form at interaction with laser radiation, PHYSICAL CHEMISTRY OF INTERFACES AND NANOMATERIALS X, Proceedings of SPIE, 8098, 2011.
 34. A. Smarandache, J. Moreno-Moraga, 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 1364, pp. 117-124, 2011.

35. A. Militaru, A. Smarandache, A. Mahamoud, V. Damian, P. Ganea, S. Alibert, J.-M. Pages, M.L. Pascu, Stability characterisation of quinazoline derivative BG1188 by optical method, *Advances in Laserology-Selected papers of Laer Florenec 2010*, AIP Conf. Proc. 1364, 13-23, 2011. Doi: 10.1063/1.3626907.
36. A. Militaru, A. Smarandache, M.L. Pascu, Stability characterization of quinazoline derivative BG1188 by optical methods, *AIP Conf. Proc.* 1364(1):13-23, 2011.
37. M.L. Pascu, G.V. Popescu, C.M. Ticos, I.R. Andrei, Unresonant interaction of laser beams with microdroplets, *J EUR OPT SOC-RAPID*, 7: 12001, 2012.
38. A. Smarandache, J. Kristiansen, M.L. Pascu, Optical Studies of the Spectral Properties of Phenothiazines, *LETT DRUG DES DISCOV*, 9(4):352-360, 2012.
39. M. Boni, A. Smarandache, V. Nastasa, A. Militaru, A. Staicu, I.R. Andrei, M.L. Pascu, Laser beams interaction with liquids in optofluidic experiments, *ROM REP PHYS*, 64: 1179-1194, 2012.
40. A. Hunyadi, B. Danko, M. Boni, A. Militaru, T. Alexandru, V. Nastasa, I.R. Andrei, M.L. Pascu, L. Amaral, Rapid, Laser-Induced Conversion of 20-Hydroxyecdysone and its Diacetone - Experimental Set-up of a System for Photochemical Transformation of Bioactive Substances, *ANTICANCER RES*, 32 (4), 1291-1297, 2012.
41. M. Boni, V. Nastasa, A. Militaru, A. Smarandache, I.R. Andrei, A. Staicu, M.L. Pascu, Laser beams interaction with liquids in optofluidic experiments, *ROM REP PHYS*, 64(S), 1179-1194, 2012.
42. A. Staicu, I. Apostol, A. Pascu, I. Iordache, V. Damian, M.L. Pascu, Laser induced breakdown spectroscopy stratigraphic characterization of multilayered painted surfaces, *SPECTROCHIM ACTA B*, 151: 4-75, 2012.
43. G. Keglevich, M.L. Pascu, G. Naray-Szabo, A Tribute to a Living Legend, *LETT DRUG DES DISCOV*, 9(7): 643-644, 2012.
44. A. Smarandache, A. Militaru, H.n Goker, A. Pascu, M.L. Pascu, Laser methods for pharmaceutical pollutants removal", *Proc. SPIE* 8411, 2012.
45. M.L. Pascu, "Molecular Modifications of Phenothiazines by Irradiation with Laser Beams", *Analele Academiei Franceze pentru Europa Centrala*, 2012.
46. A. Dinache, M. Boni, M.L. Pascu, Phenothiazine derivatives interaction with laser radiation, *ROM REP PHYS*, 65(3):1078-1091, 2013.
47. A. Staicu, A. Pascu, M. Boni, M.L. Pascu, M. Enescu, Photophysical study of Zn phthalocyanine in binary solvent mixtures, *J MOL STRUCT*, 1044:188-193, 2013.
48. J. Moreno-Moraga, E. Hernández, J. Royo, J. Alcolea, M.J. Isarría, M.L. Pascu, A. Smarandache, M. 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, *LASER MED SCI*, 28(3): 925-933, 2013.
49. M.L. Pascu, B. Danko, A. Martins, N. Jedlinszki, T. Alexandru, V. Nastasa, M. Boni, A. Militaru, I.R. Andrei, A. Staicu, A. Hunyadi, S. Fanning, L. Amaral, Exposure of chlorpromazine to 266 nm laser beam generates new species with antibacterial properties: contributions to development of a new process for drug discovery, *PLOS ONE*, 8(2): e55767, 2013.
 50. M.L. Pascu, "The Laser Use in Generating New Species of Medicines with Antitumor and Antibacterial Properties: New Processes in Drug Discovery", *BIOCHEM PHARMACOL*, 2(1): 1000e111, 2013.
 51. I.R. Andrei, G.V. Popescu, C.M. Ticos, M.L. Pascu, Optical Spectrum Analysis of Chaotic Synchronization in a Bidirectional Coupled Semiconductor Laser System, *CHAOS AND COMPLEX SYSTEMS*, 425-429, 2013.
 52. T. Alexandru, A. Armada, B. Dankó, A. Hunyadi, A. Militaru, M. Boni, V. Nastasa, A. Martins, M. Viveiros, M.L. Pascu, J. Molnár, L. Amaral, Biological evaluation of products formed from the irradiation of chlorpromazine with a 266 nm laser beam, *BIOCHEM PHARMACOL*, 2(1): 1-4, 2013.
 53. I.R. Andrei, G.V. Popescu, M.L. Pascu, Optical spectrum behaviour of a coupled laser system under chaotic synchronization conditions, *J EUR OPT SOC-RAPID*, 8:13054, 2013
 54. A.M. Armada, T. Alexandru, D. Machado, B. Danko, A. Hunyadi, A. Dinache, V. Nastasa, M. Boni, J. Ramos, M. Viveiros, J. Molnar, M.L. Pascu, L. Amaral, The in vitro activity of products formed from exposure of Chlorpromazine to a 266nm laser beam against species of Mycobacteria of human interest, *IN VIVO*, 27(5): 605-610, 2013.
 55. T. Alexandru, M.L. Pascu, B. Danko, V. Nastasa, M. Boni, A. Militaru, I.R. Andrei, A. Staicu, A. Hunyadi, A. Armada, M. Viveiros, L. Amaral, Generation and biological evaluation of the products formed from the exposure of Phenothiazine to a 266nm laser beam, *ROMOPTO International Conference on Micro-to Nano-Photonics III*, 88820T-88820T-7, 2013.
 56. A. Simon, T. Alexandru, M. Boni, V. Damian, A. Stoicu, V. Dutschk, M.L. Pascu, Interaction of solutions containing phenothiazines exposed to laser radiation with materials surfaces, in view of biomedical applications, *INT J PHARMACEUT*, 475(1-2): 270-281, 2014.
 57. V. Nastasa, K. Samaras, M.L. Pascu, T.D. Karapantsios, Moderately stable emulsions produced by a double syringe method, *COLLOID SURFACE A*, 460: 321-326, 2014.
 58. W.-C. Lai, B. Dankó, J. Csábi, Z. Kele, F.-R. Chang, M.L. Pascu, T. Gáti, A. Simon, L. Amaral, G. Tóth, A. Hunyadi, Rapid, laser-induced conversion of 20-hydroxyecdysone—A follow-up study on the products obtained, *STEROIDS*, 89: 56-62, 2014.
 59. J. Moreno-Moraga, A. Smarandache, M.L. Pascu, J. Royo, M.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):658-666, 2014.
60. A. Dinache, M. Boni, T. Alexandru, E. Radu, A. Stoicu, I.R. Andrei, A. Staicu, L. Liggieri, V. Nastasa, M.L. Pascu, L. Ferrari, Surface properties of Vancomycin after interaction with laser beams; *COLLOID SURFACE A*, 450: 328-335, 2015.
 61. T. Alexandru, A. Staicu, A. Pascu, E. Radu, A. Stoicu, V. Nastasa, A. Dinache, M. Boni, L. Amaral, M.L. Pascu, Characterization of mixtures of compounds produced in Chlorpromazine aqueous solutions by UV laser irradiation: their applications in antimicrobial assays, *J BIOMED OPT*, 20(5): 051002, 2015.
 62. M. Boni, V. Nastasa, A. Staicu, I.R. Andrei, M.L. Pascu, Characterisation of fluorescent pendant droplets, *ROM REP PHYS*, 67(4):1278-1287, 2015.
 63. A. Staicu, A. Pascu, V. Nastasa, M.L. Pascu, Photophysics of covalent functionalized single walled carbon nanotubes with a porphyrin-type photosensitizer, *ROM REP PHYS*, 67(4): 1457-1466, 2015.
 64. 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, *ROM REP PHYS*, 67(4):1480-1490, 2015.
 65. M.L. Pascu, Meet the Editorial Board Member Prof. Mihail Lucian Pascu, *LETT DRUG DES DISCOV*; 12(5):343-343, 2015.
 66. T. Tozar, A. Stoicu, E. Radu, M.L. Pascu, Evaluation of thin layer chromatography image analysis method for irradiated chlorpromazine quantification, *ROM REP PHYS*, 67(4): 1608-1615, 2015.
 67. V. Nastasa, K. Samaras, Ch. Ampatzidis, T.D. Karapantsios, M.A. Trelles, J. Moreno-Moraga, A. Smarandache, M.L. Pascu, Properties of polidocanol foam in view of its use in sclerotherapy, *EUR J PHARM SCI*, 478: 588–596, 2015.
 68. M. Boni, V. Nastasa, I. R. Andrei, A. Staicu, M.L. Pascu, Enhanced fluorescence emitted by microdroplets containing organic dye emulsions, *BIOMICROFLUIDICS*, 9: 014126, 2015.
 69. J. Moreno-Moraga, A. Smarandache, M.L. Pascu, Kombination von Polidocanol und Laser verbessert Outcome bei Teleangiektasien und retikulären Venen deutlich, *GEFÄßMEDIZIN SCAN*, 2(2):130-131, 2015.
 70. L. Danaila, A.G. Vacaru, E. Craciun, M.L. Pascu, The division of the mental faculties in unconscious, preconscious (subconscious) and consciousness, and the neurological background of this separation, *Proc. Rom. Acad., Series B*, 17(3): 215–228, 2015.
 71. A. Smarandache, A. Simon, T. Tozar, V. Nastasa, M.L. Pascu, Stability studies on Promethazine unexposed and exposed to UV laser radiation, *Proc. SPIE 9549, PHYSICAL CHEMISTRY OF INTERFACES AND NANOMATERIALS XIV*, 954916, 2015.

72. M.C. Morán, T. Tozar, A. Simon, A. Dinache, A. Smarandache, I.R. Andrei, M. Boni, M.L. Pascu, F. Cirisano, M. Ferrari, Toxicity study in blood and tumor cells of laser produced medicines for application in fabrics, *COLLOID SURFACE B*, 137: 91-103, 2016.
73. I.R. Andrei, T. Tozar, A. Dinache, M. Boni, V. Nastasa, M.L. Pascu, Chlorpromazine transformation by exposure to ultraviolet laser beams in droplet and bulk"; *EUR J PHARM SCI*, 81: 27-35, 2016.
74. A. Smarandache, V. Nastasa, M. Boni, A. Staicu, J. Handzlik, K. Kiec-Kononowicz, L. Amaral, M.L. Pascu, Laser beam resonant interaction of new hydantoin derivatives droplets for possible biomedical applications; *COLLOID SURFACE A*; 505: 37–46, 2016.
75. A. Smarandache, A. Pascu, I.R. Andrei, J. Handzlik, K. Kiec-Kononowicz, A. Staicu, M.L. Pascu, Study of the optical properties of 2-thiohydantoin derivatives, *ROM REP PHYS*, 68(2): 673–683, 2016.
76. V. Nastasa, A. Pascu, M. Boni, A. Smarandache, A. Staicu, M.L. Pascu, Insights into the photophysics of zinc phthalocyanine and photogenerated singlet oxygen in DMSO-water mixture, *COLLOID SURFACE A*, 505: 197-203, 2016.
77. T. Alexandru, A. Staicu, A. Pascu, A. Dinache, A. ben Abdeladhim, M. Enescu, A. Khatyr, M.L. Pascu, Light cleavage of some potential linkers for drug carriers, *ROM REP PHYS*, 68(2):684-692, 2016.
78. A. Staicu, I. Apostol, A. Pascu; I. Urzica; M.L. Pascu, V. Damian; Minimal invasive control of paintings cleaning by LIBS, *OPT LASER TECHNOL*, 77:187-192, 2016.
79. B. Sjöberg, S. Foley, A. Staicu, A. Pascu, M.L. Pascu, M. Enescu, Protein reactivity with singlet oxygen: Influence of the solvent exposure of the reactive amino acid residues, *J PHOTOCH PHOTOBIO B*, 159:106-110, 2016.
80. M.L. Pascu, I.R. Andrei, J.-P. Delville, Laser-induced jetting and controlled droplet formation, *OPTOFLUIDICS, MICROFLUIDICS AND NANOFUIDICS*, 3(1):44-48, 2016.
81. A. Smarandache, M. Boni, I.R. Andrei, J. Handzlik, K. Kiec-Kononowicz, A. Staicu, M.L. Pascu, Spectroscopic investigations of novel pharmaceuticals: stability and resonant interaction with laser beam, *APPL SURF SCI*, 417: 143-148, 2017.
82. M. Boni, A. Staicu, I.R. Andrei, A. Smarandache, V. Nastasa, M. Comor, Z. Saponjic, M.L. Pascu, Studies on laser induced emission of microdroplets containing Rhodamine 6G solutions in water doped with TiO₂ nanoparticles, *COLLOID SURFACE A*, 519: 238–244, 2017.

83. A. Dinache, A. Smarandache, A. Simon, V. Nastasa, T. Tozar, A. Pascu, 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, *APPL. SURF. SCI.*, 417: 136-142, 2017.
84. A. Staicu, A. Smarandache, A. Pascu, M.L. Pascu, Photophysics of covalently functionalized single wall carbon nanotubes with verteporfin, *APPL. SURF. SCI.*, 417:170-174, 2017.
85. S. Zivkovic, M. Momcilovic, A. Staicu, J. Mutic, M. Trtica, J.Savovic, Spectrochemical analysis of powdered biological samples using transversely excited atmospheric carbon dioxide laser plasma excitation, *SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY*, 128: 22-29, 2017.