

Papers in refereed journals:

1. P. Chévrier, C. Fiévet, S.-S. Ciobanu, C. Fleurier, P. Scarpa "Study of the arc-electrode interaction in a SF₆ self-blast circuit-breaker", J. Phys. D: Appl. Phys. 32(1999), 1494-1502
2. S.-S. Ciobanu, C. Fleurier, D. Hong, C. Fiévet "Optical Measurements of Particle Concentrations in a SF₆ Arc Plasma of an Electrical Circuit-Breaker", Progress in Plasma Processing of Materials 1997, pp. 247-254 (edited by Begell House, NY).
3. S.-S. Ciobanu, C. Fleurier, D. Hong, C. Fiévet "Utilisation de la lumière UV d'un Z-pinch pour le diagnostic d'un arc de disjoncteur industriel", Annales de Physique, Colloque C1, supplément au n°5, vol. 19, octobre 1994, C1, 49-50
4. S.S. Ciobanu, D. Hong, J.M. Bauchire, F. Gentils Experimental study of a low-voltage circuit breaker, by analysis of complex spectra, including the self-reversed profiles of copper resonance lines, High Temperature Material Processes 12(2008) 91-108
5. G. Sandolache, S. Rowe, S.-S. Ciobanu, D. Hong Dielectric strength of the metal vapour, to be published in IEEE Transactions on Plasma Science
6. N. N. Puscas, S. S. Ciobanu, C. Negutu, and M. Stafe Modeling of the Er³⁺-doped Ti:LiNbO₃ optical waveguide couplers, Proc. SPIE Vol. 7469, 74690W (May. 17, 2010)
7. M. Stafe, C. Negutu, I. Vladiu, S. S. Ciobanu, B. Savu, and N. N. Puscas Spectroscopic study of the plasmas generated by nanosecond laser ablation of Er³⁺-doped Ti:LiNbO₃ targets, Proc. SPIE Vol. 7469, 746907 (May. 17, 2010)

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1. C. Negutu, M. Stafe, S. S. Ciobanu, I. Vladiu, Viorica Stăncălie, N. N. Puscas Evaluation by spectroscopic methods of some parameters of Al and Cu plasmas obtained by laser ablation of a solid target, University Politehnica of Bucharest, Scientific Bulletin, Series A: Applied Mathematics and Physics, 70 (2008), 85-91
2. C. Negutu, M. Stafe, S. S. Ciobanu, N. N. Puscas Characterization of the laser-ablation plasmas using optical spectroscopy and opto-acoustic methods, Journal of Optoelectronics and Advanced Materials, 13 (2011), 815-823

Communications at scientific meetings and Proceedings of International Conferences:

1. S.-S. Ciobanu, D. Hong, C. Fleurier "Étude par spectroscopie d'émission et d'absorption et par imagerie d'un plasma d'arc tournant produit dans un disjoncteur", Proceedings of Deuxième Conférence des Jeunes Chercheurs en Génie Electrique FIRELEC, 6-8 avril 1994, Grenoble, France, III, 61-64
2. S.-S. Ciobanu, C. Fleurier, D. Hong "Utilisation de la lumière UV d'un Z-pinch pour le diagnostic d'un arc de disjoncteur industriel", UVX 94 2ème Colloque sur les Sources Cohérentes et Incohérentes UV, VUV et X. Applications et Développements Récents, 13-16 juin 1994, Nouan-le-Fuzelier, France, P10
3. C. Fleurier, S.-S. Ciobanu, D. Hong "Diagnostic d'un plasma d'arc tournant produit dans un disjoncteur par spectroscopie d'émission et par imagerie", Quatrième Congrès de la Section Plasma de la Société Française de Physique, 14-16 septembre 1994, Toulouse, France, P12
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5. C. Fleurier, S.-S. Ciobanu, D. Hong "Spectroscopy of a Turbulent Rotating Plasma in SF₆", 47th Annual Gaseous Electronics Conference, 18-21 October 1994, Gaithersburg, Maryland, USA, LB10
6. C. Fleurier, S.-S. Ciobanu, D. Hong, C. Fievet "Diagnostics d'un arc de disjoncteur en SF₆ par des moyens optiques", 20^{ème} Anniversaire du Club EDF «Chimie des Hautes Températures (Plasma)», 8-9 Juin 1995, Centre EDF de Clamart, France, p. 29

7. C. Fleurier, S.-S. Ciobanu, D. Hong, C. Fievet "Copper Concentration Measurement in a SF₆ Arc Plasma of an Electrical Circuit-Breaker", 22nd International Conference on Phenomena in Ionized Gases, July 31-August 4, 1995, Stevens Institute of Technology, Hoboken, New Jersey, USA
8. C. Fleurier, S.-S. Ciobanu, D. Hong, C. Fiévet "Optical Measurements of Particle Concentrations in a SF₆ Arc Plasma of an Electrical Circuit-Breaker", 4th European Conference on Thermal Plasma Processes, July 15-18, 1996, Athens, Greece
9. S.-S. Ciobanu, C. Fleurier, C. Fiévet, F. Gherendi, F. Gentils "Etude optique et spectroscopique de la vaporisation des électrodes métalliques dans un arc de disjoncteur électrique", Cinquième Congrès de la Section Plasma de la Société Française de Physique, 5-7 février 1997, Autrans, France
10. C. Fleurier, S.-S. Ciobanu, D. Hong, F. Gentils, C. Fiévet "Determination of Copper Concentration in a SF₆ Arc Plasma in an Electrical Circuit-Breaker", IEEE International Conference on Plasma Science, May 19-22, 1997, San Diego, CA, USA
11. C. Fleurier, S.-S. Ciobanu, D. Hong, C. Fiévet "Optical Measurements of Particle Concentrations in a SF₆ Arc Plasma of an Electrical Circuit-Breaker", 3rd International Conference on Electrical Contacts, Arcs, Apparatus and their Applications, May 25-29, 1997, Xi'an, P. R. China
12. S.-S. Ciobanu, C. Fleurier, C. Fiévet "Experimental Study of the Electrode Vaporization in an Electrical Circuit Breaker in SF₆", 23rd International Conference on Phenomena in Ionized Gases, July 17-22, 1997, Toulouse, France, II, 100-101 (edited by M.C. Bordage and A. Gleizes, Université Paul Sabatier, Toulouse)
13. S.-S. Ciobanu, P. Chévrier, C. Fleurier "2-D Hydrodynamic Model of the Electrode Vaporization in an Electrical Circuit Breaker in SF₆ and Comparison with Experiments", 23rd International Conference on Phenomena in Ionized Gases, July 17-22, 1997, Toulouse, France, II, 102-103 (edited by M.C. Bordage and A. Gleizes, Université Paul Sabatier, Toulouse)
14. C. Fleurier, D. Hong, S.-S. Ciobanu, C. Fiévet "Optical absorption techniques used in diagnostics of a rotating arc in an electrical circuit-breaker", 23rd International Conference on Phenomena in Ionized Gases, July 17-22, 1997, Toulouse, France, II-150, (edited by M.C. Bordage and A. Gleizes, Université Paul Sabatier, Toulouse)
15. C. Fleurier, D. Hong, S.-S. Ciobanu, C. Fiévet "Optical absorption techniques used in diagnostics of a rotating arc in an electrical circuit-breaker", Proceedings of the 13th International Symposium on Plasma Chemistry, August 18-22, 1997, Beijing, P. R. China (editor C.K. Wu, Peking University Press), pp 257-262
16. C. Fleurier, S.-S. Ciobanu, C. Fiévet "Optical Measurements of Metal Vapor Concentration in a SF₆ Arc Plasma of an Electrical Circuit Breaker", 8th International Conference on Switching Arc Phenomena and the International Symposium on Electrical Technologies for Environmental Protection, September 3-6, 1997, Lodz, Poland
17. S.-S. Ciobanu, P. Chévrier, C. Fiévet, C. Fleurier "2-D Hydrodynamic Simulation of a SF₆ Arc Plasma of an Electrical Circuit-Breaker including the electrode vaporization", 12th International Conference on Gas Discharges and their Applications, September 8-12, 1997, Greifswald, Germany, 582-585 (ISBN 3-00-001760-7)
18. S.S. Ciobanu, D. Hong, J.M. Bauchire, F. Gentils Etude d'un arc électrique transitoire basse tension créé lors de la séparation de deux contacts métalliques, 8^{ème} Colloque sur les Arcs Electriques, 2007 March 12-13, Rouen, France
19. S.S. Ciobanu, D. Hong, J.M. Bauchire, F. Gentils Study of low-voltage circuit breaker by analysis of complex spectra including the self-reversed profiles of CuI resonance lines, XXVIII International Conference on Phenomena in Ionized Gases, July 15-20, 2007 (Conference Topics [11. Thermal plasmas](#)), Prague, Czech Republic
<http://icpig2007.icp.cas.cz/files/download/cd-cko/ICPIG2007/pdf/4P11-05.pdf>
20. S.S. Ciobanu, C. Negutu, M. Stafe, Spectroscopic studies of laser induced aluminium and copper plasma in air,

- I. Vladoiu, V. Pais, V. Stancalie, N.N. Puscas Proceedings of the 35th European Physical Society Conference on Plasma Physics, Hersonissos, Crete, Greece, 09-13 June 2008, p5.144
21. G. Sandolache, S. Rowe, S-S. Ciobanu, D. Hong Breakdown strength of the metal vapour, paper A1-P08, XXIII International Symposium on Discharges and Electrical Insulation in Vacuum, 15-19 september 2008, Bucharest, Romania
22. M. Stafe, C. Negutu, I. Vladoiu, S. S. Ciobanu, N. N. Puscas "Spectroscopic study of the plasmas generated by nanosecond laser ablation of Er³⁺-doped Ti:LiNbO₃ targets" International Conference Micro- to Nano-Photonics II - ROMOPTO 2009

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1. S.-S. Ciobanu, C. Fleurier, C. Fiévet "Optical Diagnostics of a SF₆ Arc Plasma of an Electrical Circuit-Breaker", 9th Conference on Plasma Physics and Applications, June 27 - 30, 1996, Bucharest & Constanta, Romania
2. S.-S. Ciobanu, P. Chévrier, C. Fiévet, C. Fleurier "2-D Hydrodynamic Simulation of a SF₆ Arc Plasma of an Electrical Circuit-Breaker", 9th Conference on Plasma Physics and Applications, June 27 - 30, 1996, Bucharest & Constanta, Romania
3. S.-S. Ciobanu "Electrical, optical and spectroscopic measurements of a SF₆ arc plasma of an electrical circuit breaker", Romanian Physical Society National Conference of Physics, Constanta, Romania, September 14-16, 1998
4. S.-S. Ciobanu "Statistical analysis of temporal series" The first meeting of Belgium-France-Romania Working Group (EURATOM), 6-15 September, 1999, Sinaia, Romania
5. S.-S. Ciobanu "Random walks in random media. 1D numerical studies" The third meeting of Belgium-France-Romania Working Group (EURATOM), 24 September – 1 October, 2001, Craiova, Romania
6. S.-S. Ciobanu "Statistical methods for determining long-range time correlations in temporal series" The third meeting of Belgium-France-Romania Working Group (EURATOM), 24 September – 1 October, 2001, Craiova, Romania

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