

APPENDIX B: list of publications of S.M. Starikovskaia

A. Articles in refereed journals:

1. **Nanosecond surface dielectric barrier discharge in air at high pressure and different polarities of applied pulses. Transition to filamentary mode,**
S. Stepanyan, A. Starikovskiy, N. Popov, S. Starikovskaia
Plasma Sources Sci. Technol., 2014, submitted, article reference: PSST-100114
2. **Dynamics of plasma evolution in nanosecond underwater discharge,**
I. Marinov, S. Starikovskaia, A. Rousseau
J. Phys. D: Appl. Phys., (2014) accepted, article reference: JPhysD-100950.R1
3. **Cell death induced on cell cultures and nude mouse skin by non-thermal, nanosecond-gulsed generated plasma,**
A. Duval, I. Marinov, G. Bousquet, G. Gapihan, S. M. Starikovskaia, A. Rousseau, A. Janin
PLOS ONE www.plosone.org, December 2013, Volume 8(12)/e83001
4. **Modes of underwater discharge propagation in a series of nanosecond successive pulses,**
I. Marinov, O. Guaitella, A. Rousseau, S. M. Starikovskaia
J. Phys. D: Appl. Phys. 46 (2013) 000000 (9pp)
5. **Cavitation in the vicinity of the high-voltage electrode as a key step of nanosecond breakdown in liquids,**
I. Marinov, O. Guaitella, A. Rousseau, S. M. Starikovskaia
Plasma Sources Sci. Technol., 22 (2013) 042001 (6pp)
6. **A nanosecond surface dielectric barrier discharge at elevated pressures: time-resolved electric field and efficiency of initiation of combustion,**
I.N. Kosarev, V.I. Khorunzhenko, E.I. Mintoussov, P.N. Sagulenko, N.A. Popov, S.M. Starikovskaia
Plasma Sources Sci. Technol. 21 (2012) 045012 (15pp)
7. **The 2012 Plasma Roadmap (Invited Review Article),**
S. Samukawa, M. Hori, S. Rauf, K. Tachibana, P. Bruggeman, G. Kroesen, J.C. Whitehead, A.B. Murphy, A.F. Gutsol, S. Starikovskaia, U. Kortshagen, J.-P. Boeuf, T.J. Sommerer, M.J. Kushner, U. Czarnetzki and N. Mason
J. Phys. D: Appl. Phys., 45 (2012) 253001 (37pp)
8. **Plasma decay in air and O₂ after a high-voltage nanosecond discharge,**
N.L. Aleksandrov, E.M. Anokhin, S.V. Kindysheva, A.A. Kirpichnikov, I.N. Kosarev, M.M. Nudnova, S.M. Starikovskaya, A.Yu. Starikovskii
J. Phys. D: Appl. Phys. 45 (2012) 255202 (10pp)
9. **Plasma decay in the afterglow of a high-voltage nanosecond discharge in air,**
N.L. Aleksandrov, E.M. Anokhin, S.V. Kindysheva, A.A. Kirpichnikov, I.N. Kosarev, M.M. Nudnova, S.M. Starikovskaya, A.Yu. Starikovskii
Plasma Physics Rep., 38(2) (2012) 179–186
10. **Experimental and modeling analysis of fast ionization wave discharge propagation in a rectangular geometry,**
K. Takashima, I.V. Adamovich, Z. Xiong, M.J. Kushner, S.M. Starikovskaia, U. Czarnetzki, D. Luggenhoelscher

Physics of Plasmas, 18 (2011) 083505 (17 pp)

11. Fast gas heating in nitrogen-oxygen discharge plasma: II. Energy exchange in the afterglow of a volume nanosecond discharge at moderate pressures,

E.I. Mintoussov, S.J. Pendleton, F.G. Gerbault, N.A. Popov and S.M. Starikovskaia
J. Phys. D: Appl. Phys., 44 (2011) 285202 (13pp)

12. Successive nanosecond discharges in water,

I.L. Marinov, O. Guaitella, A. Rousseau and S.M. Starikovskaia
IEEE Transactions on Plasma Science, PP99 (2011), 10.1109/TPS.2011.2147337 (2 pp)

13. On electric field measurements in surface dielectric barrier discharge,

S.M. Starikovskaia, K. Allegraud, O. Guaitella, A. Rousseau
J. Phys. D.: Appl. Phys., 43 (2010) 124007 (5 pp)

14. Simulation of the Ignition of a Methane-Air Mixture by a High-Voltage Nanosecond Discharge,

N. L. Aleksandrov, S. V. Kindysheva, E. N. Kukaev, S. M. Starikovskaya, A. Yu. Starikovskii
Plasma Physics Reports, 35(10) (2009) 867—882

15. Ignition with Low-Temperature Plasma: Kinetic Mechanism and Experimental Verification,

S. M. Starikovskaya, N. L. Aleksandrov, I. N. Kosarev, S. V. Kindysheva, A. Yu. Starikovskii
High Energy Chemistry, 43/3 (2009), 213—218

16. Nanosecond-Pulsed Discharges for Plasma-Assisted Combustion and Aerodynamics,

A.Y. Starikovskii, N.B. Anikin, I.N. Kosarev, E.I. Mintoussov, M.M. Nudnova, A.E. Rakitin, D.V. Roupasov, S. M. Starikovskaia, and V.P. Zhukov
J. of Propulsion and Power, 24(6) (2008) 1182—1197

17. Mechanism of ignition by non-equilibrium plasma,

N.L. Aleksandrov, S.V. Kindysheva, I.N. Kosarev, S.M. Starikovskaia, A. Yu. Starikovskii
Proceedings of the Combustion Institute, 32 (2009) 205—212

18. Kinetics of ignition of saturated hydrocarbons by nonequilibrium plasma: C₂H₅-to C₅H₁₂-containing mixtures,

I.N. Kosarev, N.L. Aleksandrov, S.V. Kindysheva, S.M. Starikovskaia, A. Yu. Starikovskii
Combust. Flame, 156 (2009) 221—233

19. Kinetics of ignition of saturated hydrocarbons by nonequilibrium plasma: CH₄-containing mixtures,

I.N. Kosarev, N.L. Aleksandrov, S.V. Kindysheva, S.M. Starikovskaia, A. Yu. Starikovskii
Combust. Flame, 154 (2008) 61—73

20. Combustion initiated by nonequilibrium plasma,

S.M. Starikovskaia, E.N. Kukaev, A. Yu. Kuksin, M.M. Nudnova, A. Yu. Starikovskii
IEEE Transactions on Plasma Science 36(4, part 1) (2008) 904—905

21. Nanosecond discharge development in long tubes,

N.B. Anikin, N.A. Zavalova, S.M. Starikovskaia, A. Yu. Starikovskii
IEEE Transactions on Plasma Science 36(4, part 1) (2008) 902—903

22. Kinetics mechanism of plasma-assisted ignition of hydrocarbons,

I.N. Kosarev, N.L. Aleksandrov, S.V. Kindysheva, S.M. Starikovskaia, A. Yu. Starikovskii
J. Phys. D.: Appl. Phys. 41 (2008) 03 2002 (6 pp)

23. The kinetics of autoignition of rich $\text{N}_2\text{O}-\text{H}_2-\text{O}_2$ mixtures at high temperatures,

I.N. Kosarev, S.M. Starikovskaia, A.Yu. Starikovskii
Combust. Flame, 151 (2007) 61–73

24. Plasma decay in N_2 , CO_2 and H_2O excited by high-voltage nanosecond discharge,

I.N. Kosarev, N.L. Aleksandrov, S.V. Kindysheva, S.M. Starikovskaia, A.Yu. Starikovskii
J. Phys. D: Appl. Phys. 40 (2007) 4493–4502

25. Plasma assisted ignition and combustion,

S.M. Starikovskaia
J. Phys. D: Appl. Phys. 39 (2006) R265–R299

26. Oxidation of saturated hydrocarbons under the effect of nanosecond pulsed space discharge,

N.B. Anikin, S.M. Starikovskaia, A.Yu. Starikovskii
J. Phys. D: Appl. Phys. 39 (2006) 3244–3252

27. Plasma-assisted combustion,

A.Yu. Starikovskii, N.B. Anikin, I.N. Kosarev, E.I. Mintousov, S.M. Starikovskaia, and V.P. Zhukov
Pure Appl. Chem., 78 (2006) 1265–1294

28. Analysis of the spatial uniformity of the combustion of a gaseous mixture initiated by a nanosecond discharge,

S.M. Starikovskaia, E.N. Kukaev, A.Yu. Kuksin, M.M. Nudnova, A.Yu. Starikovskii
Combust. Flame, 139 (2004) 177–187

29. Study of the oxidation of alkanes in their mixtures with oxygen and air under the action of a pulsed volume nanosecond discharge,

N.B. Anikin, S.M. Starikovskaia, and A.Yu. Starikovskii
Plasma Physics Reports 30 (2004) 1028–1042

30. Nanosecond gas discharge ignition of H_2 and CH_4 containing mixtures,

S.A. Bozhenkov, S.M. Starikovskaia, A.Yu. Starikovskii
Combust. Flame, 133 (2003) 133–146

31. Non-thermal decomposition of N_2O in pulsed high current discharge,

D.V. Zatsepin, S.M. Starikovskaia, A.Yu. Starikovskii
Plasma Physics Reports 29 (2003) 517–527

32. Time resolved emission spectroscopy and its applications to study of pulsed nanosecond high-voltage discharge,

S.M. Starikovskaia, N.B. Anikin, S.V. Pancheshnyi, A.Yu. Starikovskii
Proceedings of SPIE 4460 (2002) 63–73

33. Polarity effect of applied pulse voltage on the development of uniform nanosecond gas breakdown,

N.B. Anikin, S.M. Starikovskaia and A.Yu. Starikovskii
J. Phys. D: Appl. Phys. 35 (2002) 2785–2794

34. Hydrogen oxidation in the stoichiometric hydrogen-oxygen mixture in the fast ionization wave,

D.V. Zatsepin, S.M. Starikovskaia, A.Yu. Starikovskii
Chemical Physics Reports 20 (2001) 66–99

35. Numerical modeling of the electron energy distribution function in the

- electric field of a nanosecond pulsed discharge,
S.M. Starikovskaia and A.Yu. Starikovskii
J. Phys. D: Appl. Phys. 34 (2001) 3391—3399
- 36. Pulsed breakdown at high overvoltage: development, propagation and energy branching,**
S.M. Starikovskaia, N.B. Anikin, S.V. Pancheshnyi, D.V. Zatsepin, A.Yu. Starikovskii
Plasma Sources Sci. Technol. 10 (2001) 344—356
- 37. Hydrogen oxidation in a stoichiometric hydrogen–air mixtures in the fast ionization wave,**
S.M. Starikovskaia, A.Yu. Starikovskii, D.V. Zatsepin
Combust. Theory Modeling 5 (2001) 97—129
- 38. Role of photoionization processes in propagation of cathode–directed streamer,**
S.V. Pancheshnyi, S.M. Starikovskaia, A.Yu. Starikovskii
J. Phys. D: Appl. Phys. 34 (2001) 105—115
- 39. Uniform nanosecond gas breakdown of negative polarity: initiation form electrode and propagation in molecular gases,**
N.B. Anikin, S.M. Starikovskaia, A.Yu. Starikovskii
J. Phys. D: Appl. Phys. 34 (2001) 177—188
- 40. Discharge dynamics and the production of active particles in a cathode–directed streamer,**
S.V. Pancheshnyi, S.V. Sobakin, S.M. Starikovskaya, A.Yu. Starikovskii
Plasma Physics Reports, 26 (2000) 1054—1065
- 41. Negative polarity fast ionization wave in molecular gases: electric field, electron density and energy branching,**
N.B. Anikin, S.M. Starikovskaia, A.Yu. Starikovskii
Plasma Physics Reports 26 (2000) 606—616
- 42. Collisional deactivation of $N_2(C^3\Pi_u, v = 0, 1, 2, 3)$ states by N_2 , O_2 , H_2 and H_2O molecules,**
S.V. Pancheshnyi, S.M. Starikovskaia, A.Yu. Starikovskii
Chem. Phys. 262 (2000) 349—357
- 43. Dynamics of population of electronic levels of molecular nitrogen and structure of fast ionization wave,**
S.V. Pancheshnyi, S.M. Starikovskaia, A.Yu. Starikovskii
Plasma Physics Reports 25 (1999) 326—335
- 44. Excitation of molecular hydrogen in the fast ionization wave,**
S.V. Pancheshnyi, S.M. Starikovskaia, A.Yu. Starikovskii
Plasma Physics Reports 25 (1999) 393—397
- 45. Population of nitrogen molecule electron states and structure of the fast ionization wave,**
S.V. Pancheshnyi, S.M. Starikovskaia, A.Yu. Starikovskii
J. Phys. D: Appl. Phys., 32 (1999) 2219—2227
- 46. Dynamics of the profiles of charge density and longitudinal components of an electric field in a high–speed ionization wave,**
N.B. Anikin, S.M. Starikovskaia, A.Yu. Starikovskii
Plasma Physics Reports, 24 (1998) 6—20

47. Development of a spatially uniform fast ionization wave in a large volume discharges,

S.M. Starikovskaia, A.Yu. Starikovskii, D.V. Zatsepin

Plasma Physics Reports, 24 (1998) 599—606

48. Breakdown development at high overvoltage: electric field, electronic levels excitation and electron density,

N.B. Anikin, S.V. Pancheshnyi, S.M. Starikovskaia, A.Yu. Starikovskii

J. Phys. D.: Appl. Phys., 31 (1998) 826—833

49. Development of a spatially uniform fast ionization wave in a large discharges volume,

S.M. Starikovskaia, A.Yu. Starikovskii, D.V. Zatsepin

J. Phys. D.: Appl. Phys., 31 (1998) 1118—1124

50. Measurements of rate constants of the $N_2(C^3\Pi_u)$ and $N_2^+(B^2\Sigma_u^+)$ deactivation by N_2 , O_2 , H_2 , CO and H_2O molecules in discharge afterglow,

S.V. Pancheshnyi, S.M. Starikovskaia, A.Yu. Starikovskii

Chem. Phys. Lett., 294 (1998) 523—527

51. The development of fast ionization wave in the systems with different configurations of high-voltage electrodes,

N.B. Anikin, S.M. Starikovskaya, A.Yu. Starikovskii

High Temperature, 36 (1998) 969—971

52. Quenching rate constants measurements of $N_2(C)$ $N_2(C^3\Pi_u)$ and $N_2^+(B^2\Sigma_u^+)$ by N_2 , O_2 , CO molecules under nanosecond discharge afterglow,

S.V. Pancheshnyi, S.M. Starikovskaia, A.Yu. Starikovskii

Plasma Physics Reports, 23 (1997) 664—666

53. Vibrational levels population dynamics under the pulsed gas excitation,

S.M. Starikovskaia, A.Yu. Starikovskii

Khimicheskaya Fizika, (1996) N.6, 78—87

54. On the energy branching in high-voltage nanosecond discharge: dissociation of molecular oxygen,

S.M. Starikovskaya

Fizika Plazmy, 21 (1995) 541—548

55. Production of ozone at moderate pressures in molecular oxygen under the action of high-voltage pulsed periodic discharge,

S.V. Kostiouchenko, N.N. Koudriavtsev, S.M. Starikovskaya, A.V. Tretyakov, I.V. Filiouguine

Khimicheskaya fizika, 13 (1994) 71—93

56. Production of ozone in N_2 - O_2 mixtures under the action of high-voltage pulsed periodic discharge,

S.V. Kostiouchenko, N.N. Koudriavtsev, S.M. Starikovskaya, I.V. Filiouguine

Khimicheskaya fizika, 12 (1993) 1058—1072

57. Kinetics of small neutral and metastable components in lower ionosphere under pulse radiation influence,

S.V. Kostiouchenko, N.N. Koudriavtsev, S.M. Starikovskaya, I.V. Filiouguine

Mathematical Modeling, 2 (1990), N.6, 46—61

B. Chapters in the books

58. Plasma assisted ignition and combustion,

S.M. Starikovskaia, A.Yu. Starikovskii

In: "Handbook on Combustion", V.1. Fundamentals and Safety, Ed.: M.Lackner, F.Winter, A.K.Agarwal, VCH Wiley, will be published in 2010

59. Pulsed nanosecond discharges and their applications,

N.B. Anikin, S.A. Bozhenkov, D.V. Zatsepin, E.I. Mintoussov, S.V. Pancheshnyi, S.M. Starikovskaia, A.Yu. Starikovskii

In: "Encyclopedia on Low-Temperature Plasma", Ed: V.E.Fortov. V.VIII–I. Chemistry of Low-Temperature Plasma. Moscow, 2007

C. Tutorials for students

60. FTIR spectroscopy. Analysis of IR spectra of molecules (tutorial for the laboratory work),

S.M. Starikovskaia

MIPT publishing, 1–23, accepted for publication

61. Physical methods of research. Part 5. Measurements of optical emission/absorption. Introduction to laser techniques,

S.M. Starikovskaia

MIPT publishing, 2007, 1–55

62. Physical methods of research. Part 4. Measurements of temperature,

S.M. Starikovskaia

MIPT publishing, 2006, 1–38

63. Physical methods of research. Part 3. Measurements of pressure,

S.M. Starikovskaia

MIPT publishing, 2005, 1–50

64. Project on physical methods of research. Preparation and defense,

S.M. Starikovskaia

MIPT publishing, 2004, 1–8

65. Physical methods of research. Part 2. Electrical circuits. Measurements of pulsed signals,

S.M. Starikovskaia

MIPT publishing, 2004, 1–46

66. Physical methods of research. Part 1. Analysis of experimental errors,

S.M. Starikovskaia

MIPT publishing, 2004, 1–25

D. Diplomas and thesis

67. Pulsed discharge at high overvoltages: peculiarities of development and internal degrees of freedom excitation,

S.M. Starikovskaia

Institute for High Temperatures RAS, Doctor of Science Thesis (2000), 1–346 (in Russian)

68. Production of ozone in plasma of high-voltage nanosecond discharge at moderate pressures,

S.M. Starikovskaia

Moscow Institute of Physics and Technology, PhD Thesis (1993), 1—140 , (in Russian), supervisors: Dr.Sc. N.N.Kudriavtsev, Ph.D. S.V.Kostiuchenko

69. Kinetics of charged and small neutral components in upper atmosphere under pulsed ionizing emission source action,

S.M. Starikovskaia

Moscow Institute of Physics and Technology, Diploma (1989), 1—86 (in Russian) , supervisor: Ph.D. S.V.Kostiuchenko

E. Proceedings of the International Conferences:

70. Experimental and numerical study of fast gas heating and O atom production in a capillary nanosecond discharge,

A.V. Klochko, A. Salmon, J. Lemainque, N.A. Popov, J.-P. Booth, Z. Xiong, M.J. Kushner, S.M. Starikovskaia

Proc. of 52nd AIAA Aerospace Sciences Meeting, 13-17 January 2014, National Harbor, Maryland, AIAA 2014-1030

71. Nanosecond surface dielectric barrier discharge in high pressure air at different polarities of applied pulses. Transition to filamentary regime,

S.A. Stepanyan, A.Yu. Starikovskiy, N.A. Popov, S.M. Starikovskaia

Proc. of 52nd AIAA Aerospace Sciences Meeting, 13-17 January 2014, National Harbor, Maryland, AIAA 2014-0666

72. Ignition of $\text{CH}_4:\text{O}_2:\text{Ar}$ and $n\text{-C}_4\text{H}_{10}:\text{O}_2:\text{Ar}(\text{N}_2)$ mixtures with initial temperatures between 650-950 K by a surface pulsed discharge,

S.A. Stepanyan, M.A. Boumehdi, G. Vanhove, P. Desgroux, S.M. Starikovskaia, N.A. Popov

Proc. of 52nd AIAA Aerospace Sciences Meeting, 13-17 January 2014, National Harbor, Maryland, AIAA 2014-0665

73. Study of fast gas heating in a capillary nanosecond discharge in air. TALIF O atoms measurements and kinetic modeling,

A.V. Klochko, J. Lemainque, N.A. Popov, J.-P. Booth, and S.M. Starikovskaia

Proc. of 51st AIAA Aerospace Sciences Meeting, 7-10 January 2013, Grapevine, Texas, AIAA 2013-0574

74. Time-resolved electric field measurements in nanosecond surfacedielectric discharge. Comparison of different polarities. Ignition of combustible mixtures by surface discharge in rapid compression machine,

S. A. Stepanyan, M. A. Boumehdi, G. Vanhove, P. Desgroux, S.M. Starikovskaia

Proc. of 51st AIAA Aerospace Sciences Meeting, 7-10 January 2013, Grapevine, Texas, AIAA 2013-1053

75. Application of nanosecond surface dielectric barrier discharge for ignition of combustible mixtures at elevated pressures,

S. A. Stepanyan, M. A. Boumehdi, G. Vanhove, P. Desgroux, S.M. Starikovskaia

International Conference on Phenomena in Ionized Gases (ICPIG), July 14-19 2013, Granada, Spain

76. Visualization of the nanosecond surface dielectric barrier discharge in air and argon,

S. Stepanyan, S. Starikovskaia

International Conference on Phenomena in Ionized Gases (ICPIG), July 14-19 2013, Granada, Spain

77. Experimental measurements of atomic oxygen concentrations in a capillary nanosecond discharge,

A.V. Klochko, A. Salmon, N.A. Popov, S.M. Starikovskaia
31st International Conference on Phenomena in Ionized Gases (ICPIG), July 14-19 2013, Granada, Spain

78. Plasma assisted ignition inside a Rapid Compression Machine,

M. A. Boumehdi, S. Stepanyan, S. Starikovskaia, P. Desgroux, G. Vanhove
Proc. of European Combustion Meeting, 25-28 June 2013, Lund, Sweden

79. Study of a fast gas heating in a capillary nanosecond discharge. Discharge parameters and temperature increase in the afterglow,

A.V. Klochko, N.A. Popov, S.M. Starikovskaia
Proc. of 50th AIAA Aerospace Sciences Meeting Including the New Horizons Forum and Aerospace Exposition, 9–12 Jan 2012

80. Shadowgraphic and optical emission spectroscopy investigation of nanosecond discharge in water,

I.L. Marinov, O. Guaitella, A. Rousseau, S. Starikovskaia
Proc. of 50th AIAA Aerospace Sciences Meeting Including the New Horizons Forum and Aerospace Exposition, 9–12 Jan 2012

81. Time-resolved electric field measurements in 1–5 atm nanosecond surface dielectric discharge. Ignition of combustible mixtures by surface discharge,

I.N. Kosarev, P.N. Sagulenko, V.I. Khorunzhenko, N.A. Popov, S.M. Starikovskaia
Proc. of 50th AIAA Aerospace Sciences Meeting Including the New Horizons Forum and Aerospace Exposition, 9–12 Jan 2012

82. Experimental study of fast gas heating in a capillary nanosecond discharge,

A.V. Klochko, J. Lemainque, S.M. Starikovskaia
Proc. of XXI European Sectional Conference on Atomic and Molecular Physics of Ionized Gases (ESCAMPIG), Viana do Castelo, Portugal, 10-14 July 2012

83. Electric field evolution in surface nanosecond discharge,

S. Stepanyan, I. Kosarev, S. Starikovskaia
Proc. of XXI European Sectional Conference on Atomic and Molecular Physics of Ionized Gases (ESCAMPIG), Viana do Castelo, Portugal, 10–14 July 2012

84. Shadowgraphic and spectroscopic diagnostics of the nanosecond underwater discharges,

I. Marinov, O. Guaitella, A. Rousseau, S. Starikovskaia
IX Workshop on Frontiers in Low Temperature Plasma Diagnostics (FLTPD), 2011 Zinnowitz, Germany, May 8–12

85. Apoptosis induced by nanosecond dielectric barrier discharge plasma,

I. Marinov, A. Duval, O. Guaitella, A. Rousseau, A. Janin, S. Starikovskaia
International Conference on Plasma Medicine, Orleans, 17-21 Juin 2012

86. Development of nanosecond discharge in water,

I. Marinov, O. Guaitella, A. Rousseau, S. Starikovskaia
European Conference for Aero-Space Science (EUCAS), 2011, St-Petersburg, Russia, July 4–8

87. On observation of two modes in nanosecond discharge in water,

I. Marinov, O. Guaitella, A. Rousseau, S. Starikovskaia
XXX International Conference on Phenomena in Ionized Gases (ICPIG), 2011, Belfast,

Northern Ireland, Aug 28— Sep 2

88. Capillary nanosecond discharge as a tool for study of energy relaxation,

A. Klochko, S. Starikovskaia

XXX International Conference on Phenomena in Ionized Gases (ICPIG), 2011, Belfast, Northern Ireland, Aug 28—Sep 2

89. Surface discharges: possible applications for plasma-assisted ignition and electric field measurements,

K. Allegraud, O. Guaitella, I.N. Kosarev, E.I. Mintusov, S.J. Pendleton, N.A. Popov, P.N. Sagulenko, A. Rousseau, S.M. Starikovskaia

AIAA-2010-1587, 48th AIAA Aerospace Sciences Meeting Including The New Horizons Forum and Aerospace Exposition, 4 - 7 Jan 2010, Orlando, Florida, USA.

90. Fast ionization wave experiments on fast gas heating,

E. Mintusov, D.A. Lacoste, S.J. Pendleton, N.A. Popov, G.D. Stancu, C.O. Laux, S.M. Starikovskaia

XIeme Congres de la Division Plasmas de la SFP, Bordeaux, France, 10—12 Mai 2010

91. Time-resolved electric field measurements in nanosecond surface dielectric barrier discharge,

P.N. Sagulenko, E. Mintusov, S.M. Starikovskaia

XIeme Congres de la Division Plasmas de la SFP, Bordeaux, France, 10—12 Mai 2010

92. Analysis of energetic efficiency and kinetics of intermediates in the problem of plasma assisted ignition,

N.L. Aleksandrov, S.V. Kindusheva, I.N. Kosarev, S.M. Starikovskaia, A. Yu. Starikovskii

AIAA-2009-692, 47th AIAA Aerospace Sciences Meeting Including The New Horizons Forum and Aerospace Exposition, 5—8 Jan 2009, Orlando, Florida, USA

93. Laser Flash-photolysis and gas discharge in N₂O-containing mixture: kinetic mechanism,

S.M. Starikovskaia, I.N. Kosarev, N.A. Popov, A. Yu. Starikovskii

40th AIAA Plasmadynamics and Lasers Conference, June 22—25, 2009, Grand Hyatt Hotel, San Antonio, TX, USA

94. On electric field measurements in surface DBD discharge with nanosecond triggering,

K. Allegraud, O. Guaitella, S.M. Starikovskaia, A. Rousseau

Frontiers in Low Temperature Plasma Diagnostics 8, 19—23 April 2009, Blansko, Czech Republic, Book of abstracts, p.30

95. Numerical simulation of plasma-assisted ignition in CH₄:air mixtures,

N.L. Aleksandrov, S.V. Kindysheva, E.N. Kukaev, S.M. Starikovskaia, A. Yu. Starikovskii
Proc. of 19 International Symposium on Plasma Chemistry, 27—31 July 2009, Bochum, Germany, P3.12.5

96. Development of surface dielectric barrier discharge: electric field measurements,

K. Allegraud, O. Guaitella, S.M. Starikovskaia, A. Rousseau

Proc. of 19 International Symposium on Plasma Chemistry, 27—31 July 2009, Bochum, Germany

97. Nanosecond surface discharge at high pressures,

I. Kosarev, P. Sagulenko, V. Khorunzhenko, S. Starikovskaia

Proc. of 19 International Symposium on Plasma Chemistry, 27—31 July 2009, Bochum,

Germany, P3.12.5

98. Ignition of hydrocarbon-containing mixtures by nonequilibrium plasma. Experiment and numerical modelling,

N.L.Aleksandrov, S.V. Kindusheva, I.N. Kosarev, S.M. Starikovskaia, A.Yu. Starikovskii, XXVIII International Conference on Phenomena in Ionized Gases, 2007, Prague, Czech Republic, July 15—20, paper 3P10—16

99. Plasma decay in N₂, CO₂ and H₂O excited by high-voltage nanosecond discharge,

N.L.Aleksandrov, S.V. Kindusheva, A.A. Kirpichnikov, I.N. Kosarev, S.M. Starikovskaia, A.Yu. Starikovskii, XXVIII International Conference on Phenomena in Ionized Gases, 2007, Prague, Czech Republic, July 15—20, paper 5P08—09

100. Flash-photolysis of N₂O-containing mixtures as a tool for kinetic analysis of artificial ignition,

I.N. Kosarev, N.A. Popov, S.M. Starikovskaia, A.Yu. Starikovskii, II European Conference for Aerospace Science, 2007, Brussels, Belgium, July 1—6, paper 5SP65

101. Kinetics in gas mixtures for problem of plasma assisted ignition,

I.N. Kosarev, S.V. Kindusheva, N.L.Aleksandrov, S.M. Starikovskaia, A.Yu. Starikovskii, 45-th AIAA Aerospace Sciences Meeting and Exhibit, 2007, Reno, Nevada, USA, 3—7 January, paper AIAA-2007-1386

102. Ignition of hydrocarbon-containing mixtures by nanosecond discharge: experiment and numerical modeling,

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