

Publications in Refereed Journals

Kotalík, P. - Voleník, K.

Cooling rates of plasma-sprayed metallic particles in liquid and gaseous nitrogen.

Journal of Physics D. Applied Physics, **34** [4] 567-573 (2001).

Grant: GA ČR(CZ) GA106/99/0298

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Publications in Proceedings of International Conferences

Březina, V. - Hrabovský, M. - Konrád, M. - Kopecký, V. - Sember, V.

New plasma spraying torch with combined gas-liquid stabilization of arc.

In: *Proceedings of 15th International Symposium on Plasma Chemistry*. - (Ed. Bouchoule, A.; Pouvesle, J.M.; Thomann, A.L.; Bauchire, J.M.; Robert, E.). - Orléans, International Union Pure and Applied Chemistry 2001. - S. 1021-1026.

[International Symposium on Plasma Chemistry/15th./ Orléans (FR), 01.07.09-01.07.13 (WRD)]

Grant: GA ČR(CZ) GA202/01/1563

Chumak, O. - Kopecký, V. - Hrabovský, M.

Behaviour of Powder Particles in Thermal Plasma Generated by Hybrid Water-Argon Torch.

In: *Proceedings of Week of Doctoral Students 01, Physics of Plasmas and Ionized Media*. - (Ed. Šafránková, J.). - Prague, Matfyzpress, Praha 2001. - S. 318-322.

[Week of Doctoral Students 01, Physics of Plasmas and Ionized Media.. Prague (CZ), 01.06.12-01.06.15 (EUR)]

Gregor, J. - Hrabovský, M. - Jakobová, I. - Konrád, M. - Mendl, T. - Šenk, J.

Temperature and velocity distribution in the cross-section of free plasma jet.

In: *Proceedings of 15th International Symposium on Plasma Chemistry*. - (Ed. Bouchoule, A.). - Orléans, GREMI/CNRS, France 2001. - S. 1085-1090.

[International Symposium on Plasma Chemistry/15th./ Orléans (FR), 01.07.09-01.07.13 (WRD)]

Grant: GA ČR(CZ) GV106/96/K245

Hrabovský, M.

Thermal plasma jets generated in liquid-stabilized and hybrid dc arc torches.

In: *Proceedings of the XIVth Symposium on Physics of Switching Arc*. - Brno, VUT Brno 2001. - S. 212-221.

[Symposium on Physics of Switching Arc /14./ Brno (CZ), 01.09.10-01.09.14 (EUR)]

Grant: GA ČR(CZ) GA202/01/1563

Hrabovský, M. - Konrád, M. - Kopecký, V. - Macura, P.

Investigation of Rayleigh instability in thermal plasma jet generated by plasma torch with external anode.

In: *15th International Symposium on Plasma Chemistry*. - (Ed. Bouchoule, A.; Pouvesle, J.M.; Thomann, A.L.; Bauchire, J.M.; Robert, E.). - Orléans, Gremi, CNRS University of

Orléans 2001. - S. 861-866.

[International Symposium on Plasma Chemistry/15th./ Orléans (FR), 01.07.09-01.07.13 (WRD)]

Grant: GA ČR(CZ) GA202/01/1563

Hrabovský, M. - Konrád, M. - Kopecký, V.

Effect of addition of gas to water plasma spraying torch on velocity of injected particles.

In: *15th International Symposium on Plasma Chemistry*. - (Ed. Bouchoule, A.; Pouvesle, J.M.; Thomann, A.L.; Bauchire, J.M.; Robert, E.). - Orléans, Gremi, CNRS University of Orléans 2001. - S. 2565-2570.

[International Symposium on Plasma Chemistry/15th./ Orléans (FR), 01.07.09-01.07.13 (EUR)]

Grant: GA ČR(CZ) GA202/01/1563

Hrabovský, M. - Konrád, M. - Kopecký, V.

Effect of radial energy transfer on characteristics of plasma torch with water-stabilized arc.

In: *Proceedings of 28th IEEE Conference on Plasma Science*. - Las Vegas, IEEE, USA 2001. - S. P2F01.

[IEEE Conference on Plasma Science /28./ Las Vegas (US), 01.06.17-01.06.22 (WRD)]

Grant: GA ČR(CZ) GA202/01/1563

Hrabovský, M. - Konrád, M. - Kopecký, V. - Macura, P.

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[Symposium on Physics of Switching Arc /XIV./ Brno (CZ), 01.09.10-01.09.14 (EUR)]

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Hrabovský, M. - Konrád, M. - Kopecký, V.

Velocity of plasma and particles in oxygen-hydrogen thermal plasma jet.

Progress in Plasma Processing of Materials 2001, -, 109-114 (2001).

Grant: GA AV ČR(CZ) IAA1043804; GA ČR(CZ) GA102/98/0813

Hrabovský, M. - Kopecký, V. - Macura, P.

Investigation of propagation of perturbations in thermal DC arc plasma jet.

Progress in Plasma Processing of Materials 2001, -, 223-228 (2001).

Grant: GA ČR(CZ) GA106/96/k245; GA AV ČR(CZ) IAA1043804

Hrabovský, M. - Kopecký, V. - Macura, P.

Development and structure of Rayleigh type instability in thermal plasma jet.

In: *XXV International Conference on Phenomena in Ionized Gases*. - (Ed. Goto, T.). - Nagoya, Nagoya University 2001. - S. 147-148.

[International Conference on Phenomena in Ionized Gases/25./ Nagoya (JP), 01.07.17-01.07.22 (WRD)]

Hrabovský, M. - Matas, R. - Moravec, J.

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[Symposium on Physics of Switching Arc /XIV./. Brno (CZ), 01.09.10-01.09.14 (EUR)]
Grant: GA ČR(CZ) GA202/01/1563

Jeništa, J.

Numerical radial energy transport and parameters of a water-vortex stabilized electric arc with respect to the radial position of a water-vapour phase transition.

In: *Bouchoule, A. - Pouvesle, J.M. - Thomann, A.L. - Bauchire, J.M.: - Robert, E.* - (Ed. Bouchoule, A.; Pouvesle, J.M.; Thomann, A.L.; Bauchire, J.M.; Robert, E.). - Orléans, International Union of Pure and Applied Chemistry 2001. - S. 795-800. - (3).

[International Symposium on Plasma Chemistry/15th./. Orléans (FR), 01.07.09-01.07.13 (WRD)]

Grant: GA ČR(CZ) GA202/01/1563

Kavka, T. - Gregor, J. - Sember, V. - Hrabovský, M.

Investigation of Heat and Mass Fluxes in Thermal Plasma Jet Generated in Water and Water-Argon Plasma Torches.

In: *Proceedings of Week of Doctoral Students 01, Physics of Plasmas and Ionized Media.* - (Ed. Šafránková, J.). - Prague, Matfyzpress, Praha 2001. - S. 312-317.

[Week of Doctoral Students 01, Physics of Plasmas and Ionized Media.. Prague (CZ), 01.06.12-01.06.15 (EUR)]

Kotalík, P. - Nishiyama, H.

Effect of external magnetic field on arc plasma flow.

In: *Proceedings of the 15th International Symposium on Plasma Chemistry.* - (Ed. Bouchoule, A.; Pouvesle, J.M.; Thomann, A.L.; Bauchire, J.M.; Robert, E.). - Orléans, Internationale Union of Pure and Applied Chemistry 2001. - S. 1137-1142. - (3).

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