

## Publications in Refereed Journals

**Amakawa, T. - Jeništa, J. - Heberlein, J. - Pfender, E.**

Anode-boundary-layer behaviour in a transferred, high-intensity arc.

*Journal of Physics D - Applied Physics*, **31** [20] 2826-2834 (1998).

[Impact factor: 1.100(96) 1.090(97) 1.100(98) 1.188(99) 1.179(00) 1.260(01) 1,366(02)]

**Hrabovský, M.**

Water-stabilized plasma generators.

*Pure and Applied Chemistry*, **70** [6] 1157-1162 (1998).

Grant: GA ČR(CZ) GA102/95/0592; GA ČR(CZ) GV106/96/K245

Výzkumný záměr: CEZ:AV0Z2043910

[Impact factor: 1.308(91) 1.739(92) 1.323(93) 1.403(94) 1.495(95) 1.630(96) 1.971(97)

1.677(98) 1.141(99) 1.257(00) 1.535(01) 1,750(02)]

## Publications in Proceedings of International Conferences

**Brožek, V. - Hrabovský, M. - Kopecký, V. - Trojan, M.**

Condensed Polyphosphate Pigments Prepared in WSP 500 plasmochemical reactor.

In: *CHISA '98, 13th International Congress of Chemical and Process Engineering*. - Prague, Vysoká škola chemicko-technologická, ČR 1998. - S. P7.28.

[CHISA '98, 13th International Congress of Chemical and Process Engineering.. Prague (CZ), 98.08.23-98.08.28 (WRD)]

Grant: GA ČR(CZ) GA102/98/0813

Výzkumný záměr: CEZ:AV0Z2043910

**Chráška, P. - Brožek, V. - Kolman, B. J. - Ilavský, J. - Neufuss, K. - Dubský, J. - Voleník, K.**

Porosity Control of Thermally Sprayed Ceramic Deposits.

In: *15th International Thermal Spray Conference*. - (Ed. Coddet, Ch.). - Materials Park, OH, ASM International 1998. - S. 1299-1304.

[International Thermal Spray Conference /15./. Nice (FR), 98.05.25-98.05.29]

Grant: GA MŠk(CZ) OC 515.10

**Denoirjean, A. - Lagnoux, O. - Fauchais, P. - Sember, V.**

Oxidation Control in Atmospheric plasma spraying: Comparison between Ar/H<sub>2</sub>/He and Ar/H<sub>2</sub>.

In: *Thermal Spray Meeting the Challenges of the 21st Century*. - (Ed. Coddet, Ch.). - Materials Park, OH, ASM International 1998. - S. 809-814.

[International Thermal Spray Conference /15./. Nice (FR), 98.05.25-98.05.29]

Grant: GA AV ČR(CZ) KSK1043601

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

Mixing and Entrainment of Cold Gas into Thermal Plasma Jet Generated in Water-Stabilized Plasma Torch.

In: *5th European Conference on Thermal Plasma Processes*. - (Ed. Dresvin, S.). - St. Petersburg, University St. Petersburg 1998. - S. 47.

[European Conference on Thermal Plasma Processes /5./. St. Petersburg (RU), 98.07.13-

98.07.16 (EUR)]

Grant: GA ČR(CZ) GA102/98/0813; GA ČR(CZ) GV106/96/K245

Výzkumný záměr: CEZ:AV0Z2043910

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

Investigation of Structure of Turbulent Boundary Layer Between Thermal Plasma Jet and Ambient Air.

In: *TPP-5, 5th European Conference on Thermal Plasma Processes*. - (Ed. Dresvin, S.). - St. Petersburg, University St. Petersburg 1998. - S. 117.

[European Conference on Thermal Plasma Processes /5./. St.Petersburg (RU), 98.07.13-98.07.16 (EUR)]

Grant: GA AV ČR(CZ) IAA1043804; GA ČR(CZ) GV106/96/K245

Výzkumný záměr: CEZ:AV0Z2043910

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

Velocity Field of Particles Injected into Plasma Jet Generated by Torch with Water Stabilization.

In: *TPP-5, 5th European Conference on Thermal Plasma Processes*. - (Ed. Dresvin, S.). - St. Petersburg, University St. Petersburg 1998. - S. 130.

[European Conference on Thermal Plasma Processes /5./. St. Petersburg (RU), 98.07.13-98.07.16 (EUR)]

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

Výzkumný záměr: CEZ:AV0Z2043910

**Jeništa, J.**

The Effect of Evaporation Mass Flow Rate on the Properties of Water-Swirl Electric arc.

In: *13th Symposium on Physics of Switching arc*. - Brno, - 1998. - S. 374-377.

[Symposium on Physics of Switching arc /13./. Brno (CZ), 98.09.07-98.09.11]

Grant: GA ČR(CZ) GV106/96/K245; GA ČR(CZ) GA102/98/0813; GA AV ČR (CZ) KSK1043601

**Jeništa, J.**

Parametric Study of a Water-Swirl Stabilized Electric Arc.

In: *Proceedings of the 1998 ICPP & 25th EPS Conference on Plasma Physics and Controlled Fusion*. - (Ed. Pavlo, P.; Pick, R.M.; Mulhouse, G.T.). - Prague, European Physical Society 1998. - S. 218. - (ECA. P3).

[International Congress on Plasma Physics combined with 25th EPS Conference on Controlled Fusion and Plasma Physics /25./. Prague (CZ) , 98.06.29-98.07.03]

Grant: GA ČR(CZ) GV106/96/K245; GA ČR(CZ) GA102/98/0813; GA AV ČR (CZ) IAC1043601

**Kopecký, V.**

Electric probes investigation of turbulence in the interaction zone of the plasma jet with the ambient air.

In: *Proceedings of the 1998 ICPP & 25th EPS Conference on Plasma Physics and Controlled Fusion*. - (Ed. Pavlo, P.; Pick, R.M.; Mulhouse, G.T.). - Praha, EPS 1998. - S. 2643-2646. - (ECA.; 22C. 22C ).

[International Congress on Plasma Physics combined with 25th EPS Conference on Controlled Fusion and Plasma Physics /25./. Praha (CZ), 98.06.29-98.07.03]

Grant: GA AV ČR(CZ) IAA1043804

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

Investigation of Structure of Mixing Zone of Thermal Plasma Jet by Electric Probes.

In: *ESCAMPING 98, Proceedings of 14th European Conference on the Atomic and Molecular Physics of ionised Gases.* - Dublin, University Dublin 1998. - S. 392-393.

[ESCAMPING, European Conference on the Atomic and Molecular Physics of ionised Gases /14./. Dublin (GB), 98.08.26-98.08.29 (EUR)]

Grant: GA ČR(CZ) GA102/98/0813

Výzkumný záměr: CEZ:AV0Z2043910

**Kotalík, P.**

Two-phase flow of a plasma jet and powder particles.

In: *Proceedings of the 1998 International Congress on Plasma Physics combined with the 25th European Physical Society Conference on Controlled Fusion and Plasma Physics, Contributed Papers.* - (Ed. Pavlo, P.; Pick, R.M.; Mulhouse, G.T.). - Praha, European Physical Society 1998. - S. 2710-2713. - (Europhysics Conference Abstracts, ECA.; 22C.).

[International Congress on Plasma Physics combined with the 25th European Physical Society Conference on Controlled Fusion and Plasma Physics /25./. Praha (CZ), 98.06.29-98.07.03]

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

**Sember, V.**

A Spectroscopic Study of Excitation Nonequilibrium in the Thermal Water Plasma Jet.

In: *Europhysics Conference Abstracts.* - (Ed. Riley, D.; Mahony, C.M.O.; Graham, W.G.). - Belfast, European Physical Society 1998. - S. 420-421. - (Europhysics Conference Abstracts.).

[European Conference on the Atomic and Molecular Physics of Ionised Gases /14./. Malahide, Dublin (IE), 98.08.26-98.08.29]

Grant: GA AV ČR(CZ) KSK1043601