

Publications in Refereed Journals

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

Processes and Properties of Electric arc Stabilized by Water Vortex.

IEEE Transactions on Plasma Science, **25** [5] 833-839 (1997).

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

[Impact factor:0.918(91) 1.317(92) 1.078(93) 0.969(94) 1.085(95) 1.300(96) 1.183(97)

1.072(98) 1.085(99) 1.227(00) 0.892(01) 1,170(02)]

Hrabovský, M. - Konrád, M. - Kopecký, V. - Hlína, J. - Beneš, J. - Veselý, E.

Motion of Anode Attachment and Fluctuation of Plasma Jet in DC Arc Plasma Torch.

Journal of High Temperature Material Processes, **1** [2] 167-178 (1997).

Grant: GA ČR(CZ) GA102/95/0592; GA ČR(CZ) GA104/94/0417

[Impact factor: 0.076(99) 0.151(00) 0.342(01) 0,225(02)]

Jeništa, J. - Heberlein, J. V. R. - Pfender, E.

Numerical Model of the Anode Region of High-Current Electric Arcs.

IEEE Transaction on Plasma Science, **25** [5] 883-890 (1997).

Grant: NSF(US) EEC:8721545

[Impact factor:0.918(91) 1.317(92) 1.078(93) 0.969(94) 1.085(95) 1.300(96) 1.183(97)

1.072(98) 1.085(99) 1.227(00) 0.892(01) 1,170(02)]

Klíma, R. - Kotalík, P.

On cavities in thermally spheroidized powder particles.

Journal of Thermal Spray Technology, **6** [3] 305-308 (1997).

Grant: GA ČR(CZ) GA106/93/0638

[Impact factor: 0.800(97) 0.707(99) 0.816(00) 0.862(01) 0,591(02)]

Publications in Proceedings of International Conferences

Boháč, P. - Brožek, V. - Glauckler, L. - Chráska, P. - Neufuss, K. - Paul, W.

Kombinované keramické substráty pro supravodiče, připravené technologií APS/ Ceramic

Substrates for Superconductors Produced by APS Technology. Brno, - 1997. - 5 s.

[Symposium "Silichem" /9./. Brno (CZ), 97.10.09-97.10.10]

Grant: OE16a/EU1543

Brožek, V. - Chráska, P. - Trojan, M.

Cel-x Prx O2 Fluorite Type Pigments Prepared in Water Plasma Conditions. Paris, - 1997. -

436 s.

[International Conference on f-Elements ICFE 3. Paris (FR), 97.09.14-97.09.18]

Grant: GA104/96/1236

Brožek, V. - Dufek, V. - Chráska, P.

Utilisation of Low Temperature Plasma and Focused Microwave Field for Chemical

Processes and New Materials Preparation. Kočovce, - 1997. - 12 s.

[Joint Seminar"Development of Materials Science in Research and Education" /7./. Kočovce (SK), 97.06.09-97.06.11]

Brožek, V. - Dufek, V. - Dubský, J. - Chráska, P.

Free Surface Ceramometallic Parts Prepared by Water Stabilized Plasma Treatment. Munich, - 1997. - 35 s.

[European Conference on Advances in Structural PM Component Production. Munich (DE), 97.10.15-97.10.17]

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

Study of thermal plasma decomposition of polyhalogenide hydrocarbons. (Ed. Wu, C. K.). - Peking, Peking University Press 1997. - 1735+4 s.

[International Symposium on Plasma Chemistry /13./. Peking (CN), 97.08.18-97.08.22]

Grant: GA ČR(CZ) GA102/95/0592KSK1043601

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

Destruction of Liquid Organic Compounds in Hydrogen-Oxygen Thermal Plasma Jet. (Ed. Fauchais, P.). - New York/Wallingford, Begell House, Inc. 1997. - 439+7 s.

[International Thermal Plasma Processes Conference /4./. Atheny (GR) , 96.07.15-96.07.18]

Grant: GA ČR(CZ) GA104/94/0417

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

Probe measurements of influence of the anode position on parameters of plasma Jet generated by water stabilized plasma. (Ed. Píchal, J.). - Prague, Czech Technical University 1997. - 234+2 s.

[Symposium on Plasma Physics and Technology /18./. Prague (CZ), 97.06.17-97.06.20]

Grant: GA102/95/0059KSK1043601

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

Statial Distribution of High Frequency Fluctuations in Thermal Plasma Jet Generated in Water-Stabilized Torch. (Ed. Píchal, J.). - Prague, Czech Technical University 1997. - 237+2 s.

[Symposium on Plasma Physics and Technology /18./. Prague (CZ), 97.06.17-97.06.20]

Grant: GA102/95/0592GA106/96/K245

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

Investigation of mass and energy transport in electric arc stabilized by watervortex. (Ed. Babucke, G.). - Greifswald, Local Organising Committee of GD`97 1997. - 610+3 s.

[International Conference on Gas Discharges and Their Applications /12./. Greifswald (DE), 97.09.08-97.09.12]

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

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

Energy and mass transfer in electric arc stabilized by water vortex. (Ed. Burakov, V. S.). - Minsk, Institut molekularnoj i atomnoj fiziki 1997. - 104+3 s.

[Fizika plazmy i plazmennye technologii-2. Minsk (BY), 97.09.15-97.09.19]

Grant: GA ČR(CZ) GV106/96/K245KSK1043601

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

Investigation of Anode Phenomena in DC Arc Plasma Torch. (Ed. Fauchais, P.). - New York/Walkingford, Begell House, Inc. 1997. - 1+7 s.

[International Thermal Plasma Processes Conference /4./. Atheny (GR) , 96.07.15-96.07.18]
Grant: GA ČR(CZ) GA102/95/0592; GA ČR(CZ) GA102/95/0059

Jeništa, J.

Model for heat transfer and discharge characteristics of a water-vortex stabilized electric Arc. (Ed. Píchal, J.). - Prague, Czech Technical University 1997. - 240+2 s.
[Symposium on Plasma Physics and Technology /18./. Prague (CZ), 97.06.17-97.06.20]
Grant: GA102/95/0592

Jeništa, J.

Numerical Model of a Water-swirl Stabilized Electric Arc. (Ed. Babucke, G.). - Greifswald, - 1997. - 50+3 s.
[International Conference on Gas Discharges and Their Applications /12./. Greifswald (DE), 97.09.08-97.09.12]
Grant: GA ČR(CZ) GA102/95/0592

Jeništa, J. - Heberlein, J. V. R. - Pfender, E.

Model for Anode Heat Transfer from an Electric Arc. (Ed. Fauchais, P.). - New York, Begell House, Inc. 1997. - 805+8 s.
[International Thermal Plasma Processes Conference /4./. Atheny (GR) , 96.07.15-96.07.18]
Grant: GA ČR(CZ) GA102/95/0592

Jeništa, J. - Hrabovský, M.

Numerical model of an electric Arc stabilized by water vortex. (Ed. Wu, C. K.). - Beijing, - 1997. - 332+5 s.
[International Symposium on Plasma Chemistry /13./. Beijing (CN), 97.08.18-97.08.22]
Grant: GA ČR(CZ) GA102/95/0592

Koláček, K. - Boháček, V. - Schmidt, J. - Šunka, P. - Ullschmied, J. - Řípa, M. - Kotalík, P.

Optimisation of a driver for fast capillary discharge. (Ed. Píchal, J.). - Prague, Czech Technical University 1997. - 86+2 s.
[Symposium on Plasma Physics and Technology /18./. Prague (CZ), 97.06.17-97.06.20]
Grant: KSK1043501

Koláček, K. - Boháček, V. - Schmidt, J. - Šunka, P. - Ullschmied, J. - Řípa, M. - Kotalík, P.

Modelling of a Driver for Fast Capillary Discharge. (Ed. Sadowski, M.; Rothkaehl, H.). - Warszawa, Zespol Wydawniczy Centrum Badan Kosmicznych PAN 1997. - 69+3 s.
[International Symposium on Plasma Research and Application PLASMA `97. Jarnoltowek near Opole (PL), 97.06.10-97.06.12]
Grant: KSK1043601

Sember, V.

A spectroscopic method for investigation of excitation nonequilibrium in thermal water. (Ed. Píchal, J.). - Prague, Czech Technical University 1997. - 245+2 s.
[Symposium on Plasma Physics and Technology /18./. Prague (CZ), 97.06.17-97.06.20]
Grant: GA102/95/0059GA102/95/0592