

## Publications in Refereed Journals

Ctibor P., Hrabovský M.: **Plasma sprayed TiO<sub>2</sub>: The influence of power of an electric supply on particle parameters in the flight and character of sprayed coating.** *Journal of the European Ceramic Society* **30** [15] (2010) 3131-3136.

Hirka I., Hrabovský M.: **Three-dimensional modeling of mixing of steam plasma jet with nitrogen in thermal plasma reactor.** *High Temperature Materials and Processes* **14** [1-2] (2010) 1-9.

Hlína M., Domlátil J., Brožek V., Hrabovský M.: **Azo-dye Orange II degradation in plasma torch with Gerdien Arc.** *High Temperature Materials and Processes* **14** [1-2] (2010) 89-94. [European High Temperature Plasma Processes (HTPP)/10th./ Patras (Patras University), 07.07.2008-11.07.2008]

Jeništa J., Hrabovský M., Nishiyama H., Takana H., Bartlová M., Aubrecht V.: **Parametric Study of Hybrid Argon-Water Stabilized Electric Arc under Subsonic and Supersonic Regimes.** *High Temperature Materials and Processes* **14** [1] (2010) 55-69.

Křenek P., Hrabovský M.: **Influence of non-equilibrium effects on plasma property functions in hybrid water-argon plasma torch.** *High Temperature Materials and Processes* **14** [1-2] (2010) 95-100. [European High Temperature Plasma Processes (HTPP)/10th./ Patras (Patras University), 07.07.2008-11.07.2008]

## Publications in Proceedings of International Conferences

Hlína M., Hrabovský M., Konrád M., Kopecký V., Kavka T., Lorcet H.: **Properties of synthetic gas produced by plasma gasification of biomass.** Proceedings of the XVIII International Conference on Gas Discharges and Their Applications. Greifswald : INP Greifswald, 2010. S. 452-455. ISBN 0-9539105-4-7. [International Conference on Gas Discharges and Their Applications (GD 2010)/18th./ Greifswald (DE), 05.09.2010-10.09.2010]

Hrabovský M.: **Steam Plasma Flows Generated in Gerdien Arc: Environment for Energy Gas Production from Organics and for Surface Coatings.** Proceedings of Seventh International Conference on Flow Dynamics. Sendai : Tohoku University, 2010 - (Maruyama, S.) S. 708-709. ISBN N. [Seventh International Conference on Flow Dynamics(ICFD2010). Sendai (JP), 01.11.2010-03.11.2010]

Hrabovský M., Konrád M., Kopecký V., Hlína M., Kavka T., Chumak O., Mašláni A., Van Oost G.: **Plasma Aided Gasification of Biomass and Plastics using CO<sub>2</sub> as Oxidizer.** International Symposium on Non-Thermal/Thermal Plasma Pollution Control Technology & Sustainable Energy. St. John's, Newfoundland : IEEE, 2010. S. 1-4. ISBN N.

[International Symposium on Non-Thermal/Thermal Plasma Pollution Control Technology & Sustainable Energy, ISNTP 7. St. John's, Newfoundland (CA), 21.06.2010-25.06.2010]

Jeništa J., Hrabovský M., Nishiyama H., Takana H.: **Investigation of Supersonic Hybrid-Stabilized Argon-Water Arc for Biomass Gasification: A Comparative Numerical Study.**

Proceedings of the tenth international symposium on advanced fluid information. Sendai:

Tohoku University, 2010. S. 54-55. ISSN 1344-2236.

[International symposium on advanced fluid information and transdisciplinary fluid integration (AFI/TFI 2010)/10th./. Sendai (JP), 01.11.2010-03.11.2010]

Jeništa J., Takana H., Nishiyama H., Bartlová M., Aubrecht V., Křenek P., Sember V., Mašláni A.: **A comparative numerical study of hybrid-stabilized argon-water electric arc.** CCP 2010 Abstracts.

[Conference on Computational Physics (CCP), Trondheim, Norwegian University of Science and Technology (NTNU), (editor Alex Hansen) pp. 350-351, 23.06.2010-26.06.2010]

Mašláni A., Sember V.: **Characterization of the thermal plasma water-argon arcjet by optical emission spectroscopy.** Proceedings of the XVIII International Conference on Gas Discharges and Their Applications. Greifswald : INP Greifswald, 2010. S. 194-197. ISBN 0-9539105-4-7.

[GD 2010:18th International Conference on Gas Discharges and Their Applications. Greifswald (DE), 05.09.2010-10.09.2010]

## Monographs or Chapters in Monographs

Jeništa J., Takana H., Nishiyama H., Bartlová M., Aubrecht V., Křenek P., Hrabovský M., Kavka T., Sember V., Mašláni A.: **Integrated parametric study of hybrid-stabilized argon-water arc under subsonic and supersonic regimes.** MetaCentrum Yearbook 2009. Prague : CESNET, 2010 - (Křenková, I.; Antoš, D.; Matyska, L.) S. 53-60. ISBN 978-80-904173-7-3