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BIOGRAPHIE SCIENTIFIQUE

2007	I. Yadroitsev, Ph. Bertrand, I. Smurov, Application of laser assisted technologies for fabrication of functionally graded coatings and 3D objects for ITER and DEMO components, accepted for publication in Journal of Nuclear Materials.
2007	I. Yadroitsev, Ph. Bertrand, I. Smurov, Parametric analysis of selective laser melting technology, accepted for publication in Applied Surface Science
2006	M. Doubenskaia, Ph. Bertrand, I. Smurov, Pyrometry in Laser Surface Treatment, Surface & Coatings Technology, 201 (2006) 1955-1961.
2006	Ph Teulet, L Girard, M Razafinimanana, A Gleizes, Ph Bertrand, F Camy-Peyret, E Baillet and F Richard, Experimental Study of an Oxygen Plasma Cutting Torch. Part II. Arc-Material I, Interaction, Energy Transfer and Anode Attachment, J. Phys. D. Appl. Phys. 39, n°8, pp 1557-1573 (April 2006).
2004	A. Yakovlev, Ph. Bertrand, I. Smurov, Wear-resistant Coatings with Engineered Structure by Laser Cladding, Tribology Letters, Vol 17, N° 4, November 2004, pp 705-708.
2004	O. Smorygo, S. Voronin, Ph. Bertrand, I. Smurov, Thick molybdenum Disulphide Coatings by Thermal Diffusion Synthesis, Tribology Letters, Vol. 17, No. 4, November 2004, pp 723-726.
2003	S. Voronin, O. Smorygo, P. Bertrand, I. Smurov, N. Smirnov, Y. Makarov, Thermal-Diffusion Synthesis of Thick Disulphide Coating on Steel Substrate, Surface & Coatings Technology, Volume Issue 180-181C pp. 112-116, 2003.
2003	M. Doubenskaia, Ph. Bertrand, I. Smurov, Optical monitoring of ND: YAG laser cladding, Thin Solid Films, Volume Issue 453-454C pp. 477-485, 2003.
2003	A. Yakovlev, Ph. Bertrand, I. Smurov, Laser cladding of wear resistant metal matrix composite coatings, Thin Solid Films, Volume Issue 453-454C pp. 133-138, 2003
2001	Ph. Bertrand, G. Flamant, B. Granier, P. Pasquini, M. Harfmann, Temperature Monitoring in pilot fly ashes vitrification plasma furnaces, High Temperature Material Processes, volume 5, issue 4, 2001, pp. 465-475.
2001	M. Skrzypczak, Ph. Bertrand, L. Pawlowski, J. Zdanowski, Modeling of temperature fields in the graphite target at pulsed laser deposition of CNx films, Surface and Coatings Technology, vol.138/1, 2001, pp. 39-47.
2001	Badie J.M., Bertrand Ph., Flamant G., Temperature distribution in a pilot plasma tundish. Comparison between Plasma Torch and Graphite Electrode

	Systems, Plasma Chemistry and Plasma Processing, vol21, N°2, 2001, pp 279-299.
2000	Ph Bertrand, I. Smurov, and D. Grevey, "Application of near infrared pyrometry for continuous Nd:YAG laser welding of stainless steel and titanium plates", Applied Surface Science, Vol 168 (2000) pp 182-185.
2000	J.M. Badie, Ph. Bertrand, G. Flamant, Complete temperature monitoring in a pilot transferred arc plasma furnace, Journal of Technical Physics, 41, 1, 239-255, 2000.
2000	Ph. Bertrand, M. Ignatiev, G. Flamant and I. Smurov, "Pyrometry application in thermal plasma processing", Vacuum 56 (2000) 71-76.