

PUBLICATIONS OF DOMENICO GIORDANO

31 archival journal publications

59 conference papers

Archival journal publications (last 10 years)

(Total JCR Impact factor 17,624)

BRUNO, D., CAPITELLI, M., CATALFAMO, C., AND GIORDANO, D.

Transport Properties of High-Temperature Air in a Magnetic Field. *Physics of Plasma*, Vol. 18, No. 012308, January 2011, pp. 1–10.

(JCR Impact Factor 2,147)

KUSTOVA, E., AND GIORDANO, D.

Cross-Coupling Effects in Chemically Non-Equilibrium Viscous Compressible Flows. *Chemical Physics* 379 (2011) 83-91.

(JCR Impact Factor 1,896)

CAPITELLI, M. AND GIORDANO, D.

Energy levels of atomic hydrogen in a closed box: a natural cutoff criterion of the electronic partition function. *Physical Review A*, vol. 80, 032113, 2009.

(JCR Impact Factor 2,878)

LARICCHIUTA, A., BRUNO, D., CAPITELLI, M., CATALFAMO, C., CELIBERTO, R., COLONNA, G., DIOMEDE, P., GIORDANO, D., GORSE, C., LONGO, S., PAGANO, D., AND PIRANI, F.

High temperature Mars atmosphere. Part I: transport cross sections. *European Physical Journal D*, vol. 54, no. 3, 2009, pp. 607–617.

(JCR Impact Factor 1,476)

GULHAN, A., ESSER, B., KOCH, U., SIEBE, F., RIEHMER J., GIORDANO, D., AND KONIG
Journal of Spacecraft and Rockets ORSKI, D.

Experimental Verification of Heat-Flux Mitigation by Electromagnetic Fields in Partially Ionized-Argon Flows. *Journal of Spacecraft and Rockets*, Vol. 46, No. 2, 2009, pp. 274–283.

(JCR Impact Factor 0,557)

CAPITELLI, M., GIORDANO, D., AND COLONNA, G.

The Role of Debye-Hückel Electronic Energy Levels on the Thermodynamic Properties of Hydrogen Plasmas including Isentropic Coefficients. *Physics of Plasmas*, Vol. 15, 2008, pp. 082115 1-9.

(JCR Impact Factor 2,147)

PAGANO, D., CASAVOLA, A., PIETANZA, L., COLONNA, G., GIORDANO, D., AND
CAPITELLI, M.

Thermodynamic Properties of High-Temperature Jupiter-Atmosphere Components. *Journal of Thermophysics and Heat Transfer*, Vol. 22, No. 3, 2008, pp. 434–441.

(JCR Impact Factor 0,739)

BRUNO, D., LARICCHIUTA, A., CAPITELLI, M., CATALFAMO, C., AND GIORDANO, D.

Transport Properties of Partially Ionized Argon in a Magnetic Field. *Journal of Thermophysics and*

Heat Transfer, Vol. 22, No. 3, 2008, pp.424–433.
(JCR Impact Factor 0,739)

GIORDANO, D.

Impact of the Born-Oppenheimer Approximation on Aerothermodynamics. Journal of Thermophysics and Heat Transfer, Vol. 21, No. 3, 2007, pp. 284–302.
(JCR Impact Factor 0,739)

BRUNO, D., CATALFAMO, C., LARICCHIUTA, A., GIORDANO, D., AND CAPITELLI, M.

Convergence of Chapman-Enskog Calculation of Transport Coefficients of Magnetized Argon Plasma. Physics of Plasma, Vol. 13, No. 072307, July 2006, pp. 1–9.
(JCR Impact Factor 2,147)

CAPITELLI, M., LONGO, S., PETRELLA, G., AND GIORDANO, D.

Equivalent Potential Functions to Calculate Thermodynamic Equilibria. Plasma Chemistry and Plasma Processing, Vol. 25, No. 6, December 2005, pp. 659–675.
(JCR Impact Factor 1,602)

CAPITELLI, M., COLONNA, G., GIORDANO, D., MARRAFA, L., ET ALII

High-Temperature Thermodynamic Properties of Mars-Atmosphere Components. Journal of Spacecraft and Rockets, Vol. 42, No. 6, November-December 2005, pp. 980–989.
(JCR Impact Factor 0,557)

Contribution to books

GIORDANO, D.

Thermodynamic Equilibrium of Multi-Temperature Gas Mixtures. Proc. NATO-ASI on Molecular Physics and Hypersonic Flows, 22 May -2 June 1995, Maratea (Italy).

CAPITELLI, M., COLONNA, G., GORSE, C., AND GIORDANO, D.

Thermodynamic Properties of High-Temperature Air Components. Proc. NATO-ASI on Molecular Physics and Hypersonic Flows, 22 May -2 June 1995, Maratea (Italy).

CAPITELLI, M., CELIBERTO, R., GORSE, C., AND GIORDANO, D.

Old and New Problems Related to High Temperature Transport Properties. Proc. NATO-ASI on Molecular Physics and Hypersonic Flows, 22 May -2 June 1995, Maratea (Italy).

BELLUCCI, V., GIORDANO, D., COLONNA, G., CAPITELLI, M., ARMENISE, I., AND BRUNO, C.

Vibrational Kinetics for Numerical Simulation of Thermal Non-Equilibrium Flows. Proc. NATO-ASI on Molecular Physics and Hypersonic Flows, 22 May -2 June 1995, Maratea (Italy).