PUBLICATIONS

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Thèmes des publications

Traitement d'effluents gazeux, dépollution, conversion des COV et des hydrocarbures
(depuis 2000)

Physique des décharges impulsionnelles à haute pression
(depuis 1990)

Lasers de puissance UV (XeCl*) et IR (HF/DF)
(1990-2004)

Sections efficaces d'ionisation des COV et des hydrocarbures
(2003-2010)

Elargissement de raies atomiques à haute pression
(1993)

Décharges micro-ondes et propagation d'ondes
(1988-1992)
Effect of oxygen on the conversion of acetaldehyde in homogeneous plasmas of N$_2$/O$_2$/CH$_3$CHO mixtures
W. Faider, S. Pasquiers, N. Blin-Simiand, L. Magne

Kinetics of organic molecules in pulsed plasmas of nitrogen or N$_2$/O$_2$ mixtures at near atmospheric pressure
S. Pasquiers, N. Blin-Simiand, L. Magne

Role of quenching of metastable states in acetaldehyde decomposition by a non-equilibrium nitrogen plasma at sub-atmospheric pressure
W. Faider, S. Pasquiers, N. Blin-Simiand, L. Magne

Towards a kinetic understanding of the ignition of air-propane mixture by a non-equilibrium discharge: the decomposition mechanisms of propane
Special Issue on: "Plasmas for Aerodynamics and Combustion".

Effect of oxygen percentage on the removal of acetaldehyde by dielectric barrier discharge
O. Koeta, N. Blin-Simiand, S. Pasquiers, F. Jorand, A. Bary

Décharges hors-équilibre à pression atmosphérique dans les milieux confinés ou alvéolaires
P. Tardiveau, S. Pasquiers

Ethanol/Acetone mixtures conversion in air Dielectric Barrier Discharges
S. Lovascio, N. Blin-Simiand, F. Jorand, P. Jeanney, S. Pasquiers

Comparative study of air-propane and air-heptane mixtures ignition by nanosecond pulsed discharges
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Role of nitrogen metastable states in non-thermal plasma conversion of Volatile Organic Compounds
S. Pasquiers, W. Faider, N. Blin-Simiand, L. Magne, P. Jeanney, F. Jorand

Decomposition of acetaldehyde in atmospheric pressure filamentary nitrogen plasma
O. Koeta, N. Blin-Simiand, W. Faider, S. Pasquiers, A. Bary, F. Jorand

Experimental and numerical study of the propagation of a discharge in a capillary tube in air at atmospheric pressure
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Propagation of an air discharge at atmospheric pressure in a capillary glass tube: influence of the tube radius on the discharge structure
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Filamentation of a nanosecond pulse corona discharge in air-propane mixtures at atmospheric pressure
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Electron impact ionization cross-sections of n-heptane
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