

## 2. Production scientifique des quatre dernières années

### ACL Articles dans des revues avec comité de lecture

#### Publications 2004

- 1 **Alnama K., Boyé S., Douin S., Innocenti F., O Reilly J., Roche A.-L., Shafizadeh N., Zuin L., and Gauyacq D.**  
*Neutral excited radicals formed by ethylene photodissociation in the 8-24 eV region*  
Physical Chemistry Chemical Physics, 2004, **6**, 2093-2100.
- 2 **Andersen L.H., Bluhme H., Boyé S., Jorgensen T.J.D., Krogh H., Nielsen I.B., Brondsted Nielsen S. and Svendsen A.**  
*Experimental studies of the photophysics of gas-phase fluorescent protein chromophores*  
Physical Chemistry Chemical Physics, 2004, **6**, 2617-2627.
- 3 **Bailly D., Birnbaum G., Buechele A., Flaud P. M. and Hartmann J. M.**  
*Absorption by pure NH<sub>3</sub> and NH<sub>3</sub>-H<sub>2</sub> mixtures in the 5 μm window region*  
Journal of Quantitative Spectroscopy & Radiative Transfer, 2004, **83**, 1-13.
- 4 **Becucci M., Pietrapierza G., Castellucci E. and Bréchnignac Ph.**  
*Dynamics of vibronically excited states of aniline-Neon van der Waals complex : vibrational predissociation versus intramolecular vibrational redistribution*  
Chemical Physics Letters, 2004, **390**, 29-34.
- 5 **Ben Ahmed J., Ben Lakhdar Z., and Taieb G.**  
*Spatio-temporal inhomogeneities of laser induced plasma on surface solutions*  
Laser Phys. Lett. 2004, **1**, 542-547.
- 6 **Ben Haj-Yedder A., Le Bris C., Atabek O., Chelkovski S., Bandrauk A.**  
*Optimal control of attosecond pulse synthesis from high order harmonic generation*  
Physical Review A, 2004, **69**, 041802(R).
- 7 **Bernard R., Huc V., Reiss P., Chandezon F., Jegou P., Palacin S., Dujardin G. and Comtet G.**  
*Ultrahigh vacuum deposition of CdSe nanocrystals on surfaces by pulse injection*  
Journal of Physics-Condensed Matter, 2004, **16**, 7565-7579.
- 8 **Bobrov K., Comtet G., Hellner L. and Dujardin G.**  
*Molecular oxygen adsorption on partially hydrogenated diamond(100) surfaces*  
Applied Physics Letters, 2004, **85**, 296-298.
- 9 **Bouanich J. P., Salem J., Aroui H., Walrand J. and Blanquet G.**  
*H<sub>2</sub>-broadening coefficients in the n<sub>2</sub> and n<sub>4</sub> bands of PH<sub>3</sub>*  
Journal of Quantitative Spectroscopy & Radiative Transfer, 2004, **84**, 195-205.
- 10 **Bouanich J.P., Blanquet G., Walrand J. and Lepère M.**  
*Hydrogen-broadening coefficients in the n<sub>7</sub> band of ethylene at low temperature*  
Journal of Molecular Spectroscopy, 2004, **227**, 172-179.
- 11 **Boulet C.**  
*Collisional effects on spectral line-shapes*  
Comptes rendus – Physique, 2004, **5**, 201-214.
- 12 **Boulet C., Flaud. P. M. and Hartmann J. M.**  
*Infrared line collisional parameters of HCl in Argon beyond the impact approximation :*

*measurements and classical path calculations*

Journal of Chemical Physics, 2004, **120**, 11053-11061.

- 13 Bovensmann H., Eichmann K.-U., Noel S., Flaud J.-M., Orphal J., Monks P. S., Corlett G. K., H. Goede A. P., von Clarmann T., Steck T., Rozanov V., and Burrows J. P.**  
*The GeoStationary Scanning Imaging Absorption Spectrometer (GeoSCIA) as part of the GeoStationary Tropospheric Pollution Explorer (GeoTROPE) mission: requirements, concepts and capabilities.*  
Advances in Space Research, 2004, **34**, 694-699.
- 14 Boyé S. C. A., Fillion J.H., Shafizadeh N. and Gauyacq D.**  
*Spectroscopy of acetylene Rydberg states studied by VUV absorption and (3+1)-resonantly enhanced multiphoton ionisation*  
Comptes-rendus de Physique, 2004, **5**, 239-248.
- 15 Burrows J. P., Bergametti G., Bovensmann H., Flaud J.-M., Orphal J., Noël S., Monks P., Corlett G., Goede A. P., von Clarmann Th., Steck T., Fischer H. and Friedl-Vallon F**  
*The Geostationary Tropospheric Pollution Explorer (GeoTROPE) mission: objectives and requirements*  
Advances in Space Research, 2004, **34**, 682-687.
- 16 Calvo F. and Parneix P.**  
*Statistical evaporation of rotating clusters. III. Molecular clusters*  
Journal of Chemical Physics, 2004, **120**, 2780-2787.
- 17 Ceausu-Velcescu A., Burger H. and Graner G.**  
*High-resolution infrared spectra of HCF<sub>3</sub> in the n<sub>6</sub> (500 cm<sup>-1</sup>) and 2n<sub>6</sub> (1000 cm<sup>-1</sup>) regions: rovibrational analysis and accurate determination of the ground state constants C<sub>0</sub> and D<sub>k</sub><sup>0</sup>*  
Journal of Molecular Spectroscopy, 2004, **223**, 110-110.
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*Influence of electron correlations on strong field ionization of calcium*  
Laser Physics Letters, 2004, **1**, 18.
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- 22 Comtet G., Bobrov K., Hellner L. and Dujardin G.**  
*Observation of a precursor in the adsorption of molecular oxygen on Si(100) 2x1*  
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Journal of Chemical Physics, 2004, **121**, 7148.
- 24 Cossart-Magos C., Launay F. and Parkin J. E.**  
*High resolution absorption spectrum of CO<sub>2</sub> between 1750 and 2000 Å - 2. Rotational analysis of two parallel-type bands assigned to the lowest-electronic transition I<sup>3</sup>B<sub>2g</sub> ← X<sup>1</sup>S<sup>+</sup><sub>g</sub>*

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*Perturbation analysis in the X<sup>4</sup>F<sup>-</sup> - C<sup>4</sup>D rovibronic transitions of <sup>48</sup>Ti<sup>35</sup>Cl at 3 μm*

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Micro-electronic Engineering, 2004, **73-74**, 876-880.

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*New analysis of the Coriolis-interacting n<sub>2</sub> and n<sub>5</sub> bands of CH<sub>3</sub><sup>79</sup>Br and CH<sub>3</sub><sup>81</sup>Br*

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*Statistical evaporation of rotating clusters. IV. Alignment effects in the dissociation of nonspherical clusters*  
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## Publications 2005

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