

# LISTE DES PUBLICATIONS

## Articles dans des revues internationales avec Comité de Lecture (ACL)

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- ACL 1 Impurity-induced localisation of the 2D surface-state continuum on a metal surface  
J.P. Gauyacq, A.G. Borisov, A.K. Kazansky  
Appl.Phys.A-Matter 78,141,2004
- ACL 2 Double ionization of H<sub>2</sub> by electron impact : a second Born treatment  
A. Mansouri, C. Dal Cappello, S. Houamer, I. Charpentier and A. Lahmam-Bennani  
J.Phys.B-At.Mol.Opt.37,1203,2004
- ACL 3 Coincidence angular correlations between scattered, ejected and Auger electrons in electron impact double ionization  
F. Catoire, A.Lahmam-Bennani, A.Duguet  
Phys.Scripta T110,228,2004
- ACL 4 Effect of incident current and energy on surface charging and electron emission of hydrogenated diamond films induced by low energy electron irradiation.  
A. Hoffman, R. Akhvlediani, A. Laikhtman, A. Lafosse, J.-P. Guillotin, and Azria  
J.Appl.Phys.95,1895,2004
- ACL 5 Interaction of water vapor with bare and hydrogenated diamond film surfaces  
A. Laikhtman, A. Lafosse, Y. Le Coat, and R. Azria, A. Hoffman  
Surf.Sci.551,99,2004
- ACL 6 The triplet state of Cytosine and its derivative : e- impact and quantum chemical study  
R. Abouaf, J. Pommier, H. Dunet, P. Quan, PC Nam, MT Nguyen  
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- ACL 7 Dissociative photoionization of N<sub>2</sub>O in the region of the N<sub>2</sub>O<sup>+</sup>(B<sup>2</sup>I) state, studied by ion-electron velocity vector correlation  
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J.Chem.Phys.120,8226,2004
- ACL 8 Electron transfer from optically prepared states : He<sup>+</sup> + Na(3<sup>2</sup>P) → He(2 <sup>1,3</sup>P) + Na<sup>+</sup> angular differential scattering  
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J.Phys.B-At.Mol.Opt.37,2119,2004
- ACL 9 Photoemission in the molecular frame using the vector correlation approach : from valence to inner-valence shell ionization  
D. Dowek, M. Lebech, J.C. Houver, R.R. Lucchese  
J.Elect.Spectrosc.141, 211,2004

- ACL 10 Photo-induced dissociation of protonated tryptophan: A direct photodissociation channel in the excited state of indole moiety  
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Phys.Chem.Chem.Phys.6,2628,2004
- ACL 11 Comment on " Direct experimental evidence for a negative heat capacity in the liquid-to-gas phase transition in hydrogen cluster ions : backbending of the caloric curve"  
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Phys.Rev.Lett.93,039301,2004
- ACL 12 Fragmentation of highly-excited small neutral carbon clusters  
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Phys.Rev.Lett.93,063401,2004
- ACL 13 Surface Miller index dependence of Auger neutralisation of He<sup>+</sup> ions on Ag surfaces  
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Phys.Rev.Lett.92,17601,2004
- ACL 14 DNA strand breaks induced by low energy heavy ions  
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Phys.Med.Biol.49,N65,2004
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- ACL 16 Quantum dynamics of H<sub>2</sub> formation on a graphite surface through the Langmuir Hinshelwood mechanism  
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- ACL 17 Probing adsorbate state lifetime with low energy ions  
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- ACL 18 Analysis of the population of continuum states in wave packet propagation calculations  
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- ACL 19 Building up the screening below the femtosecond scale  
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- ACL 20 Excited electron transfer between a core-excited  $\text{Ar}^*(2p_{3/2}^{-1} 4s)$  atom and the metal substrate in the Ar/Cu(111) system  
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Comput.Phys.Commun.160,1,2004
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J.Comp.Phys.199,742,2004
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- ACL 25 Localization of the Cu(111) surface state by single Cu adatoms  
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- ACL 27 Predissociation and autoionization of triplet Rydberg states in molecular hydrogen  
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J.Chem.Phys.121,3058,2004
- ACL 28 Dissociative recombination and low-energy inelastic electron collisions of the helium dimer ion  
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Phys.Rev.A72,012712,2004
- ACL 29 Intense-laser-field ionisation of molecular hydrogen in the tunnelling regime and its effect on the vibrational excitation of  $\text{H}_2^+$   
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Phys.Rev.Lett.92 (16),163004,2004
- ACL 30 Abstraction and insertion mechanisms in reactive collisions between  $\text{H}_2^+$  or  $\text{D}_2^+$  and  $\text{O}^-$   
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Eur.Phys.J. D 31,469,2004

- ACL 31 The vibrational population of  $H_2^+$  after ionisation of  $H_2$  with a Ti : sapphire laser  
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Laser Physics 14, 1,2004
- ACL 32 Storage rings studies on dissociative recombination and internal excitation of helium dimer ions  
H. B. Pedersen, H. Buhr, S. Altevogt, V. Andrianarijaona, H. Kreckel, L. Lammich, N. de Ruelle, E. M. Staicu Casagrande, D. Schwalm, D. Strasser, X. Urbain, D. Zajfman and A. Wolf  
J. Phys.: Conf. Series 4, 168, 2004
- ACL 33 Direct measurement of the single metal cluster optical absorption  
A. Arbouet, D. Christofilos, N. Del Fatti, P. Langot, F. Vallée, J-R. Huntzinger, L. Arnaud, P. Billaud and M. Broyer.  
Phys.Rev.Lett.93,127401,2004
- ACL 34 Functionalization of polyoxometalates: from Lindqvist to Keggin derivatives. 1. Synthesis, solution studies and spectroscopic and ESI mass spectrometry characterization of the rhenium phenyl-imido tungstophosphate [PW11O39{Re(NC6H5)}]4-  
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Inorg.Chem.,43,3514,2004
- ACL 35 Observation of a precursor in the adsorption of molecular oxygen on Si(100)-(2x1)  
G. Comtet, K. Bobrov, L. Hellner and G. Dujardin  
Phys.Rev.B69,155315,2004
- ACL 36 Molecular oxygen adsorption on partially hydrogenated diamond (100) surfaces  
K. Bobrov, G. Comtet, L. Hellner, G. Dujardin and A. Hoffman  
Appl.Phys.Lett.85,296,2004
- 2005**
- ACL 37 Comment on "Appearance and disappearance of the second Born effects in the (e,3e) reaction on He"  
A. Lahmam-Bennani, F. Catoire, A. Duguet and C. Dal Cappello  
Phys.Rev.A71,026701,2005
- ACL 38 Double ionisation of helium by electron impact : angular distributions at low energy  
S. El Azzouzi, C. Dal Cappello, A. Lahmam-Bennani and F. Catoire  
J.Phys.B-At.Mol.Opt.38,1391,2005
- ACL 39 A zero dead-time, high repetition rate, multi-hit, time and position sensitive detector based on micro-channel plates  
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Rev.Sci.Instrum.76,043304,2005
- ACL 40 Photo-induced processes in protonated tryptamine  
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- ACL 42 He<sup>+</sup> scattering on a TiO<sub>2</sub> (110) surface  
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Nucl.Instrum.Meth.B230,311,2005
- ACL 43 Resonant charge transfer in back-scattering of H-atoms from the Cs adsorbates on the Cs/Cu(111) surface  
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- ACL 44 Fast He<sup>2+</sup> ion irradiation of DNA loaded with platinum-containing molecules  
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- ACL 45 Core excited Ar\*(2p<sup>-1</sup><sub>3/2</sub> nl) atoms inside an Ar crystal : Effect of Ar neighbors on the excited state  
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- ACL 46 Inelastic electron scattering by a molecule embedded in a host medium : role of the electronic structure of the medium  
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Eur.Phys.J. D 35, 405,2005
- ACL 53 Control of bond-cleaving reactions of free protonated tryptophan ion by femtosecond laser pulses  
H. Kang, C. Dedonder-Lardeux, C. Juvet, G. Grégoire, C. Desfrancois, J.P. Schermann, M. Barat and J. Fayetteon  
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- ACL 54 Ultrafast deactivation mechanism of protonated aromatic amino acids following UV excitation  
H. Kang, C. Dedonder-Lardeux, C. Juvet, S. Martrenchard, G. Grégoire, C. Desfrancois, J-P. Schermann, M. Barat and J.A. Fayetteon  
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- ACL 56 Electron induced functionalization of diamond by small organic groups  
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Eur.Phys.J. D 35,363,2005
- ACL 57 Life time and yield of metastable  $\text{Ar}_2^+$  ions  
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J.Chem.Phys.123,174307,2005
- ACL 58 Ionization cross of small cationic carbon clusters in high-energy collisions with helium atoms and stability of multiply charged species  
F. Mezdari, K. Wohrer-Béroff, M. Chabot, G. Martinet, S. Della Negrà, P. Désesquelles, H. Hamrita and A. Le Padellec  
Phys.Rev.A72,032707,2005
- ACL 59 Tunneling mechanism of light transmission through metallic films  
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Phys.Rev.Lett.95,067403,2005
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- ACL 61 Reinvestigation of electron impact vibrational excitation mechanisms of  $1\text{H}/\text{Si}(100)-(2\times 1)$  surfaces  
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Phys.Rev.B71,121401,2005
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Nucl.Instrum.Meth.B232,27,2005
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- ACL 81 Determination of simple correlated wave functions for few-electron system using Jastrow factor  
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Phys.Rev.Lett.96,073001,2006



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- ACL 85 Double H atom adsorption on a cluster model of a graphite surface  
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- ACL 88 Scattering of Cu(100) image state electrons from single Cu adatoms and vacancies : a comparative study  
F.E.Olsson, A.G.Borisov and J.P.Gauyacq  
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- ACL 89 Core excited Ne\*(1s-1 nl) atoms inside bulk Ne  
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Chem.Phys.Lett.427, 91,2006
- ACL 91 Electronic excitations in metals and at metal surfaces  
E.V.Chulkov, A.G.Borisov, J.P.Gauyacq, D.Sanchez-Portal, V.M.Silkin, V.P.Zhukov and P.M.Echenique  
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- ACL 92 Charge transfer in atom-surface interactions  
J.P.Gauyacq  
Royal Danish Academy of Sciences and Letters 52, 625,2006

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A.G. Borisov, S.V. Shabanov.  
J.Comp.Phys.216,391,2006
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S. Selcuk, K. Woo, D. B. Tanner, A. F. Hebard, A. G. Borisov, and S. V. Shabanov.  
Phys.Rev.Lett.97, 067403 ,2006
- ACL 96 Investigation of the (e,2e) single ionisation of He and Ar at large energy loss and close to minimum momentum transfer  
F. Catoire, E. M. Staicu Casagrande, M. Nekkab, C. Dal Cappello, K. Bartschat and A. Lahmam-Bennani  
J.Phys.B-At.Mol.Opt.39,2827,2006
- ACL 97 Double ionization of argon by electron impact : use of the approximate 6C model  
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J.Phys.B-At.Mol.Opt.39,4961,2006
- ACL 98 Dissociative charge transfer and collision induced dissociation of Ar<sub>2</sub><sup>+</sup> and Ar<sub>3</sub><sup>+</sup> clusters in collisions with argon atoms at keV energies  
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J.Chem.Phys.124,164305,2006
- ACL 99 Rigorous bra-ket formalism and wave-function operator  
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- ACL 100 The Wigner-Weyl transformation and the quantum path Integral  
H. Bergeron  
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- ACL 101 Fragmentation of small neutral carbon clusters  
S. Diaz-Tendero, G. Sanchez, M. Alami, F. Martin, P-A. Hervieux, M. Chabot, G. Martinet, F. Mezdari, K. Wohrer-Béroff, S. Della Negra, P. Désesquelles, H. Hamrita, A. LePadellec, L. Montagnon  
Int.J.Mass spectrom.252,126,2006
- ACL 102 Charge transfer in high velocity C<sub>n</sub><sup>+</sup>-He collisions  
M. Chabot, G. Martinet, F. Mezdari, S. Diaz-Tendero, K. Béroff-Wohrer, P. Désesquelles, S. Della Negra, H. Hamrita, A. Le Padellec, T. Tuna, L. Montagnon, M. Barat, M. Simon, I. Ismail  
J.Phys.B-At.Mol.Opt.39,2593,2006
- ACL 103 Radical Photochemistry in Oxygen Loaded Ices  
S. Lacombe, F. Bournel, C. Laffon, Ph. Parent.  
Angew.Chem.Int.Edit.45, 4040,2006

- ACL 104 Radiation effect in Water Ice : A Near -Edge X -Ray Absorption Fine Structure Study  
C. Laffon, S. Lacombe, F. Bournel and P. Parent  
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- ACL 105 Discharging, Enhancement and Control of Electron Emission of Hydrogen Free Diamond Surfaces by Sub Band Gap Light Illumination  
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- ACL 106 Reactions in nanofilms of trifluoroacetic acid (CF<sub>3</sub>COOH) driven by low energy electrons  
M. Orzol, T. Sedlacko, R. Balog, J. Langer, A. Lafosse, M. Bertin, A. Domaracka, R. Azria, G.P. Karwasz and E. Illenberger  
Int.J.Mass spectrom.254,63,2006
- ACL 107 Reactivity induced at 25 K by low-energy electron irradiation of condensed NH<sub>3</sub>-CH<sub>3</sub>COOD (1:1) mixture  
A. Lafosse, M. Bertin, A. Domaracka, D. Pliszka, E. Illenberger, and R. Azria  
Phys.Chem.Chem.Phys.8, 5564, 2006
- ACL 108 Single metal nanoparticle absorption spectroscopy and optical characterization  
O. Muskens, N. Del Fatti, F. Vallée, J.-R. Huntzinger, P. Billaud and M. Broyer.  
Appl.Phys.Lett.88,063109,2006
- ACL 109 Functionalization of Heteropolyanions - Osmium and Rhenium Nitrido Derivatives of Keggin- and Dawson-Type Polyoxotungstates: Synthesis, Characterization and Multinuclear (183W, 15N) NMR, EPR, IR, and UV/Vis Fingerprints  
C. Dablemont, C. G. Hamaker, R. Thouvenot, Z. Sojka, M. Che, E. A. Maatta, A. Proust  
Chem.Eur.J.,12,9150,2006
- ACL 110 Surface Organometallic Chemistry of Titanium: Synthesis, Characterization, and Reactivity of (Si-O)<sub>n</sub>Ti(CH<sub>2</sub>C(CH<sub>3</sub>)<sub>3</sub>)<sub>4-n</sub> (n = 1, 2) Grafted on Aerosil Silica and MCM-41  
F. Bini, C. Rosier, R. Petroff Saint-Arroman, E. Neumann, C. Dablemont, A. de Mallmann, F. Lefebvre, G. P. Niccolai, J.-M. Basset, M. Crocker, J.-K. Buijink  
Organometallics,25,3743,2006
- ACL 111 Synthèse et caractérisation de nouveaux complexes aryloxy à base de tungstène  
B. Rhers, C. Lucas, M. Taoufik, E. Herdtweck, C. Dablemont, J.-M. Basset, F. Lefebvre  
C.R. Chimie,9,1169,2006
- ACL 112 Aromatic interactions in hydrotris(indazolyl)borate organometallic complexes: control of an alkyne ligand orientation in the crystal  
J. Teichert, P. Oulié, L. Vendier, C. Dablemont, M. Etienne  
New J. Chem.,30,679,2006
- ACL 113 Tantalum hydrides supported on MCM-41 mesoporous silica: activation of methane and thermal evolution of the tantalum-methyl species  
S. Soignier, M. Taoufik, E. Le Roux, G. Saggio, C. Dablemont, A. Baudouin, F. Lefebvre, A. de Mallmann, J. Thivolle-Cazat, J.-M. Basset, G. Sunley, B. M. Maunders  
Organometallics,25,1569,2006

ACL 114 Interaction of D<sub>2</sub> with H<sub>2</sub>O amorphous ice studied by temperature programmed desorption experiments

L. Amiaud, J.H. Fillion, S. Baouche, F. Dulieu, A. Momeni, J.L. Lemaire  
J.Chem.Phys.124,94702,2006

## 2007

ACL 115 On the formation of OH ordered layers by dissociation of H<sub>2</sub>O on an oxygen covered Ag(110) surface : an STM investigation

L. Guillemot, K. Bobrov  
Surf.Sci.601,871,2007

ACL 116 Nanostructure formation by reaction of H<sub>2</sub>O with pre-adsorbed O on a Ag(110) surface

K. Bobrov and L. Guillemot  
Surf.Sci.601,3268,2007

ACL 117 Core-excited Ne\*(1s<sup>-1</sup>nl) states on a Ne surface

Gauyacq J.P.  
Chem.Phys.333,194,2007

ACL 118 Ultrafast excited state dynamics in protonated GWG and GYG tripeptides

G. Grégoire, C. Dedonder-Lardeux, C. Jouvét, C. Desfrancois, J.A. Fayeton  
Phys.Chem.Chem.Phys.9 (1),78,2007

ACL 119 Decay and dephasing of image-state electrons induced by Cs adsorbates on Cu(100) at intermediate coverage

A.K.Kazansky, V.M. Silkin, E.V. Chulkov, A.G. Borisov and J.P. Gauyacq  
Phys.Rev.B75,235412,2007

ACL 120 Hybridization effects on the Auger neutralization rate of He<sup>+</sup> on an Ag(110) surface

D. Valdes, R.C. Monreal and V.A. Esaulov  
Nucl.Instrum.Meth.B256,6,2007

ACL 121 Li ion neutralisation on Ag layers grown on Cu(111)

M. Wiatrowski, L. Lavagnino and V.A. Esaulov  
Surf.Sci.601,L39,2007

ACL 122 Effect of oxygen adsorption on the energy losses in grazing scattering of hydrogen ions on Ag(110)

J.E. Valdés, P. Vargas, L. Guillemot and V. A. Esaulov  
Nucl.Instrum.Meth.B256,81,2007

ACL 123 Azimuth-dependent Auger neutralization of He<sup>+</sup> on Ag(111) and (110) surfaces

D. Valdes, J. M. Blanco, V. A. Esaulov and R. C. Monreal  
Phys.Rev.B75,165404,2007

ACL 124 Eley-Rideal formation of H<sub>2</sub> involving one of two para-chemisorbed H atoms on a graphite surface

D. Bachelier, M. Sizun, D. Teillet-Billy, N. Rougeau et V. Sidis  
Chem.Phys.Lett.448,223,2007

- ACL 125 Excited states in the alkali/noble metal surface systems : a model system for the study of charge transfer dynamics at surfaces  
J.P.Gauyacq, A.G.Borisov and M.Bauer  
Prog. Surf. Sci.82,244,2007
- ACL 126 Modelling of interferometric multiphoton photoemission  
J.P.Gauyacq et A.K.Kazansky  
Appl.Phys.A-Matter 89,517,2007
- ACL 127 Laser-induced vibrational excitation and desorption in the Cs/Cu(111) and Na/Cu(111) systems  
J.P.Gauyacq et A.K.Kazansky  
Surf.Sci.601,5473,2007
- ACL 128 Different quantization behaviors of electrons confined in nanostructures at surfaces  
S.Diaz-Tendero, F.Olsson, A.G.Borisov and J.P.Gauyacq  
Phys.Rev.B76,155428,2007
- ACL 129 Time-dependent density functional calculation of the stopping power for protons and antiprotons in metals  
M. Quijada, A.G. Borisov, I. Nagy, R. Diez Muino, P. M. Echenique.  
Phys.Rev.A75,042902 2007
- ACL 130 Excited states of Na nanoislands on the Cu(111) surface  
T. Hakala, M.J. Puska, A.G. Borisov, V.M. Silkin, N. Zabala, E.V. Chulkov.  
Phys.Rev.B75, 165419,2007
- ACL 131 Dynamic screening and electron dynamics in low-dimensional metal systems  
V.M. Silkin, M. Quijada, M.G. Vergniory, M. Alducin, A.G. Borisov, R. Diez Muino, J.I. Juaristi, D. Sanchez-Portal, E.V. Chulkov, P.M. Echenique.  
Nucl.Instrum.Meth.B258, 72,2007
- ACL 132 Second Harmonic Generation from arrays of sub-wavelength cylinders  
D.C. Marinica, A.G. Borisov and S.V. Shabanov  
Phys.Rev.B76, 085311,2007
- ACL 133 Image potential states of supported metallic nanoislands  
A.G. Borisov, T. Hakala, M.J. Puska, V.M. Silkin, N. Zabala, E.V. Chulkov, P.M. Echenique.  
Phys.Rev.B76, 121402,2007
- ACL 134 New developments for an electron impact (e,2e)/(e,3e) spectrometer with multi-angle collection and multicoincidence detection  
F. Catoire, E.M. Staicu Casagrande, A. Lahmam-Bennani, A. Duguet, A. Naja, X.G. Ren, B. Lohman and L. Avaldi  
Rev.Sci.Instrum.78,013108,2007
- ACL 135 Application of the J-matrix method to Fadeev-Merkuriev equation : beyond pseudo states  
S.A. Zaytsev, V. A. Knyr, Yu. V. Popov and A. Lahmam-Bennani  
Phys.Rev.A75 ,022718,2007

- ACL 136 New coplanar (e,2e) experiments for the ionisation of He and Ar atoms  
E.M. Staicu Casagrande, F. Catoire, A. Naja, X.G. Ren, A. Lahmam-Bennani, M. Nekkab, C. Dal Cappello, K. Bartschat and C.T. Whelan  
J.Elect.Spectrosc.161 ,27,2007
- ACL 137 Inner shell ionisation and relaxation of CO molecule studied by coincidence spectroscopies  
P. Bolognesi, V. Feyer, A. Lahmam-Bennani, E.M. Staicu Casagrande, L. Avaldi, S.K. Semenov, V. V. Kuznetsov and N.A. Cherepkov  
J.Elect.Spectrosc.161 ,90,2007
- ACL 138 Angular distribution of molecular Auger electrons : the case of C 1s emission in CO  
S. K. Semenov, V.V. Kuznetsov, N.A. Cherepkov, P. Bolognesi, V. Feyer, A. Lahmam-Bennani, E.M. Staicu Casagrande and L. Avaldi  
Phys.Rev.A75,032707; erratum 059906(E),2007
- ACL 139 An (e,2e)-(e,3e) investigation of argon : Competition between inner shell single ionisation and direct double ionisation processes  
A. Naja, E.M. Staicu Casagrande, X.G. Ren, F. Catoire, A. Lahmam-Bennani, C. Dal Cappello and C.T. Whelan  
J.Phys.B-At.Mol.Opt.40,2871,2007
- ACL 140 Triply differential (e,2e) cross sections for ionisation of the nitrogen molecule at large energy transfer  
A. Naja, E.M. Staicu Casagrande, A. Lahmam-Bennani, M. Nekkab, F. Mezdari, B. Joulakian, O. Chuluunbaatar and D. H. Madison  
J.Phys.B-At.Mol.Opt.40 ,3775,2007
- ACL 141 Coincidence angular correlation in electron impact single or double ionisation of atoms and molecules  
E.M. Staicu Casagrande, A. Naja, X.G. Ren, M. Nekkab, F. Catoire, F. Mezdari, A. Lahmam-Bennani, D. H. Madison, O. Chuluunbaatar and B. Joulakian  
J. Phys.: Conf. Series88,012010,2007
- ACL 142 Characterization of neutral fragments issued from the photodissociation of protoned tryptophane  
V. Lepère, B. Lucas, M. Barat, J.A. Fayeton, Y.J. Picard, C. Juvet, P. Carcabal, I. Nielsen, C. Dedonder-Lardeux, G. Grégoire, A. Fujii  
Phys.Chem.Chem.Phys.9, 5330,2007
- ACL 143 Comprehensive characterization of the photodissociation pathways of protonated Tryptophan  
V. Lepère, B. Lucas, M. Barat, J.A. Fayeton, Y.J. Picard, C. Juvet, P. Carcabal, I. Nielsen, C. Dedonder-Lardeux, G. Grégoire, A. Fujii  
J.Chem.Phys.127,134313, 2007
- ACL 144 Planar study of  $\text{H}_2\text{O} + \text{Cl}_2 \rightarrow \text{HO} + \text{HCl}$  reactions  
N. Rougeau  
Phys.Chem.Chem.Phys.9,2113,2007

- ACL 145 Influence of functional groups on the site selective dissociation of adenine upon low energy electron attachment  
S. Denifl, P. Sulzer, D. Huber, F. Zappa, M. Probst, T.D. Märk, P. Scheier, N. Injan, J. Limtrakul, R. Abouaf, H. Dunet  
Angew.Chem.Int.Edit.46,5238,2007
- ACL 146 Irradiation of DNA Loaded with Platinum Containing Molecules by Fast Atomic Ions  $C^{6+}$  and  $Fe^{26+}$   
N. Usami, Y. Furusawa, K. Kobayashi, H. Frohlich, S. Lacombe and C. Le Sech  
Int.J.Rad.Biol.83,369,2007
- ACL 147 Novel apparatus to measure Hyperthermal Heavy Ion Damage to DNA :strand breaks, base loss, and fragmentation  
L. Sellami, S. Lacombe, D. Hunting, R. Wagner and M. A. Huels.  
Rev.Sci.Instrum.78, 1,085111,2007
- ACL 148 Quantum scattering of fast atoms and molecules on surfaces  
P. Rousseau, H. Khemliche, A.G. Borisov, P. Roncin  
Phys.Rev.Lett.98,016104,2007
- ACL 149 Molecular frame and recoil frame photoelectron angular distributions from dissociative photoionization of  $NO_2$   
D. Toffoli, R.R. Lucchese, M. Lebech, J.C. Houver and D. Doweck  
J.Chem.Phys.126,054307,2007
- ACL 150 Photoemission in the molecular frame induced by soft X-ray elliptically polarized light  
W.B. Li, J.C. Houver, A. Haouas, F. Catoire, C. Elkharrat, R. Guillemin, L. Journal, R. Montuoro, R.R. Lucchese, M. Simon and D. Doweck  
J.Elect.Spectrosc.30,156,2007
- ACL 151 Photoemission in the NO molecular frame induced by soft X-ray elliptically polarized light above the N 1s and O 1s ionisation thresholds  
W.B. Li, R. Montuoro, J.C. Houver, A. Haouas, L. Journal, M. Simon, R.R. Lucchese and D. Doweck  
Phys.Rev.A75, 052718, 2007
- ACL 152 Circular dichroism in molecular frame photoemission  
D. Doweck, M. Lebech, J.C. Houver, R.R. Lucchese  
Mol.Phys.105, 1757,2007
- ACL 153 Electron angular distribution in dissociative photoionization of fixed-in-space D2 molecules induced by circularly polarized light  
D. Doweck, J. Fernandez, M. Lebech, J.C. Houver and F. Martin  
J. Phys.: Conf. Series88,012009,2007
- ACL 154 Electron stimulated Desorption of H- ions from condensed acetic acid  
M. Bertin, D. Cáceres, M.P. Davis, R. Balog, A. Lafosse, N.J. Mason, E. Illenberger, and R. Azria  
Chem.Phys.Lett.433, 292, 2007
- ACL 155 Vibrational study of hydrogen bonding to ion irradiated diamond surfaces  
M. Bertin, A. Lafosse, R. Azria, S. Michaelson, O. Tarniak, and A. Hoffman  
Appl.Phys.Lett.90,061918, 2007

- ACL 156 Effect of hydrogenation, low energy ions irradiation and annealing on hydrogen bonding to polycrystalline diamond surface studied by high resolution electron energy loss spectroscopy  
Sh. Michaelson, O. Tarniak, R. Akhvlediani, A. Lafosse, M. Bertin, R. Azria, and A. Hoffman  
Phys.Status Solidi A204, 2909, 2007
- ACL 157 Surface photo-voltage effect of hydrogenated diamond subjected to low energy electron irradiation  
A. Hoffman, A. Lafosse, R. Akhvlediani and R. Azria  
Diam.Relat.Matter 16,851,2007
- ACL 158 Auger rates NaCl(001), effect of the final state and modelling via an effective length  
P. Rousseau, H. Khemliche, P. Roncin  
Nucl.Instrum.Meth.B258, 13, 2007
- ACL 159 Optical extinction spectroscopy of single silver nanoparticles  
P. Billaud, J.-R. Huntzinger, E. Cottancin, J. Lermé, M. Pellarin, L. Arnaud, M. Broyer, N. Del Fatti and F. Vallée  
Eur.Phys.J. D43 (1-3),271,2007
- ACL 160 3-D structure of nanosized catalysts by high-energy X-ray diffraction and reverse Monte Carlo simulations: Study of Ru  
N. Beford, C. Dablemont, G. Viau, P. Chupas, V. Petkov  
J.Phys.Chem.C, 111,18214,2007
- ACL 161 Reactivity of Silica-Supported Hafnium Tris-neopentyl with Dihydrogen: Formation and Characterization of Silica Surface Hafnium Hydrides and Alkyl Hydride  
G. Tosin, C. C. Santini, A. Baudouin, A. De Mallman, S. Fiddy, C. Dablemont, J.-M. Basset  
Organometallics,26,4118,2007
- ACL 162 Grafted 2D Assembly of Colloidal Metal Nanoparticles for Application as a Variable Capacitor  
N. Lidgi-Guigui, C. Dablemont, D. Veautier, G. Viau, P. Seneor, F. Nguyen Van Dau, C. Mangeney, A. Vaurès, C. Deranlot, A. Friederich  
Adv.Mater.,19,1729,2007
- ACL 163 Interaction of atomic and molecular deuterium with a non porous amorphous water ice surface between 8 and 30 K  
L. Amiaud, F. Dulieu, J.-H. Fillion, A. Momeni, J. L. Lemaire  
J.Chem.Phys.127,144709,2007
- ACL 164 Hydrogen concentration and bonding configuration in polycrystalline diamond films : From micro-to nanometric grain size  
Sh. Michaelson, O. Ternyak, R. Akhvlediani, A. Hoffman, A. Lafosse, R. Azria, O.A. Williams, D.M. Gruen  
J.Appl.Phys.102,112516,2007



## 2008

- ACL 165 Diffraction of fast atoms and molecules from surfaces  
J.R. Manson, H. Khemliche, P. Roncin  
soumis,2008
- ACL 166 Energy losses of hydrogen ions in grazing scattering on a Ag(110) surface at low keV energies  
J.E. Valdés, P. Vargas, E. Sanchez, L. Guillemot and V. A. Esaulov  
Phys.Rev.A sous presse,2008
- ACL 167 Interaction of Li<sup>+</sup> with a Au(100) surface  
Hamoudi H., C.Dablemont and V.A. Esaulov  
Surf.Sci. sous presse,2008
- ACL 168 Assembly kinetics and thermal stability of thin EP-PTCDI layers on Ag(111)  
L. N. Serkovic Loli, E. A. Sánchez, J. E. Gayone, Oscar Grizzi and V.A. Esaulov  
J.Am.Chem.Soc. soumis,2008
- ACL 169 Low energy electron impact on gas phase 5-nitrouracil  
R. Abouaf, S. Ptasinska, D. Teillet-Billy  
Chem.Phys.Lett.455,169,2008
- ACL 170 Theoretical study of electron confinement in Cu corrals on a Cu(111) surface  
S.Diaz-Tendero, F.Olsson, A.G.Borisov and J.P.Gauyacq  
Phys.Rev.B77,205403,2008
- ACL 171 Electron propagation along Cu nanowires supported on a Cu(111) surface.  
S.Diaz-Tendero, S.Fölsch, F.Olsson, A.G.Borisov and J.P.Gauyacq  
Phys.Rev.B77,205403,2008
- ACL 172 (e,2e) ionisation of helium and hydrogen molecule : evidence for two-center interference effects  
E.M. Staicu Casagrande, A. Naja, F. Mezdari, A. Lahmam-Bennani, P. Bolognesi, B. Joulakian, O. Chuluunbaatar, D. H. Madison and I. Bray  
J.Phys.B-At.Mol.Opt.41,025204,2008
- ACL 173 (e,2e) triple differential cross sections for ionisation beyond helium : the neon case at large energy transfer  
A. Naja, E.M. Staicu Casagrande, A. Lahmam-Bennani, M. Stevenson, B. Lohmann, C. Dal Cappello, K. Bartschat, A. Kheifets, I. Bray and D.V. Fursa  
J.Phys.B-At.Mol.Opt.41,085205,2008
- ACL 174 Statistical versus non-statistical photo-fragmentation of protonated GWG tri-peptide induced by UV excitation  
B. Lucas, M.Barat, J.A.Fayeton, C. Jouvét, P. Carcabal, , G. Grégoire  
Chem.Phys.347,324,2008
- ACL 175 Mechanisms of photoinduced Ca Cb bond breakage in protonated aromatic amino acids  
B. Lucas, M.Barat, J.A.Fayeton, M. Perot, C. Jouvét, G. Grégoire, S. Brondsted Nielsen  
J.Chem.Phys.128,164302,2008

- ACL 176 Fragmentation branching ratios of highly excited hydrocarbon molecules  $C_nH$  and their cations  $C_nH^+$  ( $n \leq 4$ )  
 T. Tuna, M. Chabot, T. Pino, P. Désesquelles, A. Le Padellec, G. Martinet, M. Barat, B. Lucas, E. Mezdari, L. Montagnon, N.T. Van-Oanh, L. Lavergne, A. Lachaize, Y. Carpentier and K. Béroff  
 J.Chem.Phys.128,124312,2008
- ACL 177 Low energy electron impact in gas phase glycine, alanine and propanoic acid: electronic, vibrational excitations and negative ions  
 R. Abouaf  
 Chem.Phys.Lett.451,25,2008
- ACL 178 Negative ion formation by low energy electron attachment to gas-phase 5-nitouracil  
 S.Ptasinska, E. Alizadeh, P.Sulzer, R. Abouaf, N.J. Mason, T. D. Märk and P. Scheier  
 Int.J.Mass spectrom. sous presse,2008
- ACL 179 Low energy collisions in  $H_2S$  and  $H_2Se$ : structures in dissociative attachment cross sections  
 R. Abouaf and D. Teillet-Billy  
 Int.J.Mass spectrom. sous presse,2008
- ACL 180 Mammalian cells loaded with Platinum-containing molecules are sensitized to fast atomic ions  
 N. Usami, Y. Furusawa, K. Kobayashi, S. Lacombe, A Reynaud-Angelin, E. Sage, Ting-Di Wu, A. Croisy, J-L. Guerquin-Kern and C. Le Sech  
 Int.J.Rad.Biol. accepté,2008
- ACL 181 Radiation chemistry in molecular films :Role of the ROS in CO oxidation.  
 S. Lacombe, F. Bournel, C. Laffon, Ph. Parent  
 Int.J.Mass spectrom. soumis,2008
- ACL 182 Resonant double Auger decay in Carbon K-shell excitation of CO  
 L. Journal, R. Guillemin, A. Haouas, P. Lablanquie, F. Penent, J. Palaudoux, L. Andric, M. Simon, D. Ceolin, T. Kaneyasu, J. Viehhaus, M. Braune, W.B. Li, C. Elkharrat, F. Catoire, J.C. Houver and D. Doweck  
 Phys.Rev.A 77,042710,2008
- ACL 183 Measurement of the Adsorption Energy Difference between Ortho- and Para-D2 on an Amorphous Ice Surface  
 L. Amiaud, E. Matar, F. Dulieu, J-H. Fillion, A. Momeni, J. L. Lemaire  
 Phys.Rev.Lett.100,056101,2008
- ACL 184 Dithiol self assembly studied by RAIRS, SFG and spectroscopic ellipsometry  
H. Hamoudi, Z. Guo, M. Prato, C. Dablemont, B. Bourguignon, M. Canepa, V. Esaulov  
 Phys.Chem.Chem.Phys. soumis,2008
- ACL 185 On the chain length dependence of  $CH_3$  vibrational mode relative intensities in sum frequency generation spectra of self assembled alkanethiols  
 Z. Guo, W. Zheng, H. Hamoudi, C. Dablemont, V. A. Esaulov, B. Bourguignon  
 Surf.Sci. soumis,2008

- ACL 186 Optical response of single spherical particles in tightly focused beams: application to the Spatial Modulation Spectroscopy technique  
J. Lermé, G. Bachelier, P. Billaud, C. Bonnet, M. Broyer, E. Cottancin, S. Marhaba and M. Pellarin  
J.Opt.Soc.Am.A 25 (2),493,2008
- ACL 187 Effects of atmospheric turbulence on remote quantum control experiments  
J. Extermann, P. Béjot, L. Bonacina, P. Billaud, J. Kasparian and J.-P. Wolf.  
Appl.Phys.Lett.92,041103,2008
- ACL 188 Correlation between the extinction spectrum of a single metal nanoparticle and its electron microscopy image  
P. Billaud, L. Arnaud, G. Bachelier, C. Bonnet, E. Cottancin, N. Del Fatti, J. Lermé, S. Marhaba, F. Vallée, J.-L. Vialle, M. Broyer and M. Pellarin  
J.Phys.Chem.C112,9782008
- ACL 189 FTIR and XPS Study of Pt Nanoparticle Functionalization and Interaction with Alumina  
C. Dablemont, P. Lang, C. Mangeney, J.-Y. Piquemal, V. Petkov, F. Herbst, G. Viau  
Langmuir,24,5832,2008
- ACL 190 DWA-G calculations of electron impact ionization of noble gas atoms  
A.S. Kheifets, A. Naja, E.M. Staicu Casagrande and A. Lahmam-Bennani  
J.Phys.B-At.Mol.Opt. accepté,2008
- ACL 191 High-resolution vibrational electron-energy-loss spectroscopy of gaseous and solid glycine  
E. Burean, R. Abouaf, A. Lafosse, R. Azria and P. Swiderek  
J.Phys.Chem.C sous presse,2008
- ACL 192 Electronic density corrugation and crystal azimuthal orientation effects on the energy losses of hydrogen ions in grazing scattering on a Ag(110) surface  
J.E. Valdès, P. Vargas, C. Celedon, E. Sanchez, L. Guillemot, V.A. Esaulov  
Phys.Rev.A soumis,2008
- ACL 193 Interplay between adsorbate induced reconstruction and local strain : Formation of phase on the Cu(110)-(2x1):O surface  
K. Bobrov and L. Guillemot  
Phys.Rev.B (R) soumis,2008
- ACL 194 Electron transfer processes between sputtered O atoms and Ag(110)-(nx1)O surfaces  
L. Guillemot, Y. Bandurin, K. Bobrov, V.A. Esaulov  
J.Phys.:Condensed Matter soumis,2008
- ACL 195 Stability and Magnetism of hydrogen dimers on graphene  
Y. Ferro, D. Teillet-Billy, N. Rougeau, V. Sidis, S. Morisset et A. Allouche  
Phys.Rev.B sous presse,2008
- ACL 196 OH formation on a graphite surface through the Langmuir-Hinshelwood mechanism : a quasi classical approach  
H. Bergeron, N. Rougeau, V. Sidis, M. Sizun, D. Teillet-Billy et F. Aguilon  
J.Phys.Chem.A soumis,2008

- ACL 197 Effects of a non-rigid graphen surface on the LH associative desorption of H atoms and on the de-excitation of nascent H<sub>2</sub> molecules colliding with model walls of carbonaceous porous material.  
D. Bachellerie, M. Sizun, F. Aguilon and V. Sidis  
J.Chem.Phys. soumis,2008
- ACL 198 Bound states in the continuum in photonics  
D.C. Marinica, A.G. Borisov, S.V. Shabanov  
Phys.Rev.Lett.100,183902,2008
- ACL 199 Omnidirectional absorption in nanostructured metal surfaces  
T.V. Teperik, F.J. Garcia de Abajo, A.G. Borisov, M. Abdelsalam, P.N. Bartlett, Y. Sugawara and J.J. Baumberg  
Nature Photonics 2,299,2008
- ACL 200 Time-dependent density functional calculation of the energy loss of antoprotons colliding with metallic nanoshells  
M. Quijada, A.G. Borisov and R. Diez Muino  
Phys.Status Solidi A sous presse,2008
- ACL 201 Fragmentation of small carbon clusters, a review  
K. Béroff, M. Chabot, F. Mezdari, G. Martinet, T. Tuna, P. Désesquelles, A. Le Padellec, L. Montagnon  
Nucl.Instrum.Meth. soumis,2008
- ACL 202 High-resolution vibrational electron-energy-loss spectroscopy of gaseous and solid glycine  
E. Burean, R. Abouaf, A. Lafosse, R. Azria and P. Swiderek  
J.Phys.Chem. sous presse,2008
- ACL 203 scattering of F atoms and nions on a TiO<sub>2</sub>(110) surface  
A. R. Canario, L. Guillemot, O. Grizzi, Y. Bandurin and V. A. Esaulov  
Surf.Sci. soumis,2008
- ACL 204 Electron transfer and energy losses in fluorine scattering on oxygen covered Ag(110) - crystal azimuthal dependence  
A. R. Canario, L. Guillemot, J. Valdes, P. Vargas and V. A. Esaulov  
Surf.Sci. soumis,2008