

- [Quantum Hall states under conditions of vanishing Zeeman energy](#) F. J. Teran, M. Potemski, D. K. Maude, T. Andrearczyk, J. Jaroszynski, T. Wojtowicz, and G. Karczewski *Phys. Rev. B* **82**, 245120 (2010)
- [Carbon Nanotubes, electronic structure and spectroscopy](#) G. Lanzani, L. Lüer, in *Comprehensive Nanoscience & technology*, V. Vardeny (Ed.), Elsevier, 2010. pp. 29-33. ISBN: 978-0-12-374390-9
- [Calorimetric study of a series of designed proteins: modular structure and modular folding](#) A.L. Cortajarena, and L. Regan *Protein Science*. On line article 2010.
- [Laser manipulation of cells, organelles and bio molecules](#) J. Ricardo Arias-González *Revista Española de Física* **24**, 46 (2010)
- [Growth and reductive transformation of a gold shell around pyramidal cadmium selenide nanocrystals](#) Michaela Meyns, Neus G. Bastus, Yuxue Cai, Andreas Kornowski, Beatriz H. Juárez, Horst Weller, Christian Klinken *J. Mater. Chem.*, 2010, **20**, 10602
- [Ferromagnetic proximity effect in a-CoxSi1-x/Nb bilayers: Role of magnetic disorder and interfacetransparency](#) A. Alija, D. Pérez de Lara, E.M. Gonzalez, G.N. Kakazei, J.B. Sousa, J.P. Araujo, A. Hierro-Rodriguez, J.I. Martín, J.M. Alameda, M. Vélez, and J. L. Vicent *Phys. Rev. B* **82**, 184529 (2010)
- **Uniaxial magnetic anisotropy induced by vicinal surfaces in half metallic La_{0.7}Sr_{0.3}MnO₃ thin Films** P. Perna, E. Jiménez, F. J. Teran, L. Mèchin, J. Camarero and R. Miranda *Mater. Res. Soc. Symp. Proc.* **1198-E01-04** (2010)
- [Optical identification of atomically thin dichalcogenide crystals](#) A. Castellanos-Gomez, N. Agrait and G Rubio-Bollinger *Applied Phys. Lett.* **96**, 213116 (2010)
- [Quasi-isotropy of static friction on hexagonal surface lattices](#) E. Gnecco *Euro Phys. Lett.* **91**, 66008 (2010)
- [Angular dependence of static and kinetic friction on alkali halide surfaces](#) P. Steiner, R. Roth, E. Gnecco, A. Baratoff, and E. Meyer *Phys. Rev. B* **82**, 205417 (2010)
- [B. Borca et al reply](#) B. Borca, S. Barja, M. Garnica, D. Sánchez-Portal, V.M. Silkin, E.V. Chulkov, C.F. Hermanns, J.J. Hinarejos, A.L. Vázquez de Parga, A. Arnau, P.M. Echenique and R. Miranda *Phys. Rev. Lett.* **105**, 219702 (2010)
- [Self-organization of electron acceptor molecules on grapheme](#) Sara Barja, Manuela Garnica, Juan Jose Hinarejos, Amadeo L. Vazquez de Parga, Nazario Martin, Rodolfo Miranda, *Chem. Commun.*, 2010, **46**, 8198
- **Lighting porphyrins and phthalocyanines for molecular photovoltaics** Martinez-Diaz MV, de la Torrea G, Torres T. *Chem. Comm.* **46**, 7090 (2010)
- [Electronic and geometric corrugation of periodically rippled, self-nanostructured graphene epitaxially grown on Ru\(0001\)](#) Bogdana Borca, Sara Barja, Manuela Garnica, Marina Minniti, Antonio Politano, Josefa M Rodriguez-García, Juan Jose Hinarejos, Daniel Farías, Amadeo L Vázquez de Parga, and Rodolfo Miranda *New Journal of Physics* **12** (2010) 093018
- [Imaging the magnetization reversal of step-induced uniaxial magnetic anisotropy in vicinal epitaxial La_{0.7}Sr_{0.3}MnO₃ films](#) P. Perna, L. Méchin, M. Saïb, J. Camarero and S. Flament *New J. Phys.* **12** (2010) 103033
- [Conducting interfaces between band insulating oxides: The LaGaO₃/SrTiO₃ heterostructure](#) P. Perna, D. Maccariello, M. Radovic, U. Scotti di Uccio, I. Pallecchi, M. Codda, D. Marré, C. Cantoni, J. Gazquez, M.

- Varela, S. J. Pennycook, and F. Miletto Granozio *Appl. Phys. Lett.* **97**, 152111 (2010)
- [High-resolution elastic and rotationally inelastic diffraction of D2 from NiAl\(110\)](#) Daniel Barredo, Guillaume Laurent, Pablo Nieto, Daniel Farías and Rodolfo Miranda *J. Chem. Phys.* **133** 124702 (2010)
 - [Experimental and theoretical study of rotationally inelastic diffraction of D2 from NiAl\(110\)](#) Guillaume Laurent, Daniel Barredo, Daniel Farías, Rodolfo Miranda Cristina Diaz Paula Rivière, Mark F. Somers and Fernando Martín *Phys. Chem. Chem. Phys.* 2010,**12**, 14501-14507
 - [Controlling the transformation of primary into quaternary structures: towards hierarchically built-up twisted fibers](#) López J.L., Atienza C., Seitz W., Guldi D.M., Martín N. *Angew. Chem. Int. Ed.*, 2010, **49**, 9876
 - [A new exTTF-crown ether platform to associate fullerenes: cooperative n-pi and pi-pi effects](#) Grimm B., Santos J., Illescas B.M., Munoz A., Guldi D.M., Martín N., *J. Am. Chem. Soc.*, 2010 **132**,17387
 - [Modificaciones Químicas en ARN interferente: De la investigación básica a las aplicaciones terapéuticas](#) Álvaro Somoza *An. Quím.* 2010, **106**, 215
 - **Reactive scattering of H-2 from metal surfaces under fast-grazing-incidence conditions** Diaz C., Martin F *Phys. Rev. A* **82**, 012901 (2010)
 - [Enhancement of the spin gap in fully occupied two-dimensional Landau levels](#) J. Kunc, K. Kowalik, F. J. Teran, P. Plochocka1, B. A. Piot, D. K. Maude, M. Potemski, V. Kolkovsky, G. Karczewski, and T. Wojtowicz *Phys. Rev. B* **82** 115438 (2010)
 - [Electronic properties and supramolecular organization of terminal bis-alkylethynyl-substituted benzodithiophenes](#) M. A. M. Leenen, F. Cucinotta, L. Viani, A. Mavrinskiy, W. Pisula, J. Gierschner, J. Cornil, A. Prodi-Schwab, H. Thiem, K. Müllen, L. De Cola, *J. Phys. Chem. B* **114** (2010) 14614.
 - [Effect of environment on ultrafast photoexcitation kinetics in single-wall carbon nanotubes](#) E. A. Obraztsova, L. Lüer, E. D. Obraztsova, A. I. Chernov, D. Brida, D. Polli, G. Lanzani, *Phys. Status Solidi B*, 1 published online (2010)
 - **Magnetic properties of pseudomorphic epitaxial films of Pr_{0.7}Ca_{0.3}MnO₃ under different biaxial tensile stresses** A. Geddo Lehmann, F. Congiu, N. Lampis, F. Miletto Granozio, P. Perna, M. Radovic, and U. Scotti di Uccio *Phys. Rev. B* **82**, 014415 (2010)
 - **Atomic Wires** N. Agraït in *Handbook of Nanophysics*, K. Sattler (Ed.), Florida, Taylor & Francis, 2010
 - [Spectroscopic Signatures of Photogenerated Radical Anions in Polymer-\[C70\] Fullerene Bulk Heterojunctions](#) M. Liedtke, A. Sperlich H. Kraus, C. Deibel, V. Dyakonov, S. Filippone, J.L. Delgado, N. Martin, O.G. Poluektov in *Molecular and Supramolecular Chemistry of Fullerenes and Carbon Nanotubes*, 217th ECS Meeting Vancouver Canada. Meeting Transactions, **28**, 2010, pp. 3-10.
 - [New Concepts and Applications in the Macromolecular Chemistry of Fullerenes](#) Francesco Giacalone and Nazario Martín *Adv. Mater.* 2010 **22**, 4220
 - [The endocytic penetration mechanism of iron oxide magnetic nanoparticles with positively charged cover: A morphological approach](#) Magdalena Cañete, Jorge Soriano, Angeles Villanueva, Alejandro G. Roca, Sabino Veintemillas, Carlos J. Serna, Rodolfo Miranda and Maria Del Puerto Morales *International Journal of Molecular Medicine.* **26** 533, 2010

- **Multi-Stimuli Two-Color Luminescence Switching via Different Slip-Stacking of Highly Fluorescent Molecular Sheets** S.-J. Yoon, J. W. Chung, J. Gierschner, K. S. Kim, M.-G. Choi, D. Kim, S. Y. Park, *J. Am. Chem. Soc.* **132** (2010) 13675
Acknowledgment in JACS SELECT Issue 11: *Surface Patterning: More Than Just Scratching the Surface*. <http://pubs.acs.org/JACSBeta/jvi/issue11.html>
Selected as JACS
CHALLENGE: <http://pubs.acs.org/JACSBeta/challenge/challenge126.html>
- **Scrutinizing the Chemical Nature and Photophysics of an Expanded Hemiporphyrine: The Special Case of [30]Trithia 2,3,5,10,12,13,15,20,22,23,25,30-dodecaazahexaphyrin** Trukhina ON, Rodriguez-Morgade MS, Wolfrum S, Caballero E, Snejko N, Danilova EA, Gutierrez-Puebla E, Islyaiyin MK, Guldi DM, Torres *TJ. Am. Chem. Soc.* **132**, 12991 (2010)
- **pH Responsive Surfaces with Nanoscale Topography** Antoine Bousquet Emmanuel Ibarboure Francisco J. Teran, Leire Ruiz, María Teresa Garay, José Manuel Laza, José Luis Vilas, Eric Papon, Juan Rodríguez-Hernández *Journal of Polymer Science: Part A: Polymer Chemistry*, **48** 2982 (2010)
- **Threefold exTTF-based buckycatcher** S. G. Radakrishnan, D. M. Guldi, E. M. Pérez, I. Pérez, M. Bietti and N. Martín, *J. Coord. Chem.* 2010 **63** 2939 **Efficient Utilization of Higher-Lying Excited States to Trigger Charge-Transfer Events** Pierre-Antoine Bouit, Fabian Spänig, Gregory Kuzmanich, Evangelos Krokos, Christian Oelsner, Miguel A. Garcia-Garibay, Juan Luis Delgado, Nazario Martín, and Dirk M. Guldi *Chem. Eur. J.* 2010, **16**, 9638
- **Ultra-thin PbS sheets by two-dimensional oriented attachment**, Constanze Schliehe, Beatriz H. Juárez, Marie Pelletier, Sebastian Jander, Denis Greshnykh, Mona Nagel, Andreas Meyer, Stephan Foerster, Andreas Kornowski, Christian Klinke, Horst Weller, *Science*. **329**, 550 (2010) DOI: [10.1126/science.1188035](https://doi.org/10.1126/science.1188035)
- **Potential Energy Landscape for Hot Electrons in Periodically Nanostructured Graphene** B. Borca, S. Barja,1,2 M. Garnica, D. Sánchez-Portal, V. M. Silkin, E.V. Chulkov, C. F. Hermanns, J. J. Hinarejos, A. L. Vázquez de Parga, A. Arnau, P. M. Echenique, and R. Miranda *PhysRevLett* **105**, 036804 (2010)
- **Alignment and Relaxation Dynamics of Dye Molecules in Host-Guest Inclusion Compounds as Probed by Dielectric Spectroscopy** J. Tsuwi, R. Berger, G. Labat, G. Couderc, N.-R. Behrnd, P. Ottiger, F. Cucinotta, K. Schürmann, M. Bertoni, L. Viani, J. Gierschner, J. Cornil, A. Prodi-Schwab, L. De Cola, M. Wübbenhorst, J. Hulliger, *J. Phys. Chem. A* **114** (2010) 6956.
- **Influence of the Intermediate Density-of-States Occupancy on Open-Circuit Voltage of Bulk Heterojunction Solar Cells with Different Fullerene Acceptors** Garcia-Belmonte G, Boix PP, Bisquert J, Lenes M, Bolink HJ, La Rosa A, Filippone S, Martin N *J. Phys. Chem. Lett.* **1**, 2566 (2010)
- **Ultrafast excited state relaxation in long-chain polyenes** M. R. Antognazza, L. Lüer, D. Polli, R. L. Christensen, R. R. Schrocke, G. Lanzani, G. Cerullo, *Chemical Physics* **373** (2010) 115
- **Ultrafast Excitation Energy Transfer in Small Semiconducting Carbon Nanotube Aggregates** Larry Lüer, Jared Crochet, Tobias Hertel, Giulio Cerullo, and Guglielmo Lanzani, *ACS Nano* **4**, 4265 (2010), published on-line

- [**Influence of nanoscale phase separation on geminate versus bimolecular recombination in P3HT:fullerene blend films**](#), Safa Shoaee, Mattias P. Eng, Eva Espýldora, Juan Luis Delgado, Bert Campo, Nazario Martýn, Dirk Vanderzande and James R. Durrant *Energy Environ. Sci.*, 2010, **3**, 971
- [**Modified siRNAs for the study of the PAZ domain**](#) Álvaro Somoza, Montserrat Terrazas, Ramón Eritja, *Chem. Commun.*, 2010, **46**, 4270
- [**Organic Photovoltaics: A Chemical Approach**](#) Juan Luis Delgado, Pierre-Antoine Bouit, Maria Angeles Herranz, Salvatore Filipone and Nazario Martín *Chem Commun*, 2010, **46**, 4853 DOI: [10.1039/c003088k](https://doi.org/10.1039/c003088k)
- [**Ceramide: from lateral segregation to mechanical stress**](#) Iván López-Montero, Francisco Monroy, Marisela Vélez, and Philippe F. Devaux *BBA Biomembranes* 1798 (2010) 1348
- [**Electron donor-acceptor interactions in regioselectively synthesized exTTF2–C70\(CF3\)10 Dyads**](#) Yuta Takano, M.Ángeles Herranz, Nazario Martín, Gustavo de Miguel Rojas, Dirk M. Guldi, Ivan E. Kareev, Steven H. Strauss, Olga V. Boltalina, Takahiro Tsuchiya, Takeshi Akasaka *Chem Eur. J.* **16**, 5343 (2010)
- [**Charge-Transfer-Induced Structural Rearrangements at Both Sides of Organic/Metal Interfaces**](#) Tzu-Chun Tseng, Christian Urban, Yang Wang, Roberto Otero, Steven L. Tait, Manuel Alcamí, David Écija, Marta Trelka, José María Gallego, Nian Lin, Mitsuharu Konuma, Ulrich Starke, Alexei Nefedov, Alexander Langner, Christof Woll, María Ángeles Herranz, Fernando Martín, Nazario Martín, Klaus Kern and Rodolfo Miranda *Nature Chemistry* **2**, 374 (2010) Published online: 28 March 2010
- [**Donor-acceptor conjugates of lanthanum endohedral metallofullerene and pi-extended tetrathiafulvalene**](#) Takano Y., Herranz M.A., Martín N., Radhakrishnan S.G., Guldi D.M., Tsuchiya T., Nagase S., Akasaka T., *J. Am. Chem. Soc.* 2010**132**, 8048
- [**Growth and Structure of Self-assembled Monolayers of a TTF Derivative on Au\(111\)**](#) Christian Urban, David Écija, Yang Wang, Marta Trelka, Iulian Preda, Antje Vollmer, Nicolás Lorente, Andrés Arnau, Manuel Alcamí, Leonardo Soriano, Nazario Martín, Fernando Martín, Roberto Otero, José M. Gallego, and Rodolfo Miranda *J. Phys. Chem. C* **114**, 6503 (2010)
- [**Tripodal exTTF-CTV hosts for fullerenes**](#) E Huerta, H Isla, E M Pérez, C Bo, N Martín and J de Mendoza *J. Am. Chem. Soc.* 2010 **132**, 5351
- [**Understanding biology by stretching proteins: recent progress**](#) Galera-Prat A, Gomez-Sicilia A, Oberhauser AF, Cieplak M, Carrion-Vazquez M *Current Opinion In Structural Biology* **20**, 63 (2010)
- [**Dynamical screening of the exciton resonance in conjugated polymers/carbon nanotubes composite**](#) L. Lüer, S. Hoseinkhani, M. Meneghetti, G. Lanzani, *Physical Review B* **81** (2010) 155411
- [**Efficient Electron Transfer and Sensitizer Regeneration in Stable p-Extended Tetrathiafulvalene-Sensitized Solar Cells**](#) Sophie Wenger, Pierre-Antoine Bouit, Qianli Chen, Joel Teuscher, Davide Di Censo, Robin Humphry-Baker, Jaques-E. Moser, Juan Luis Delgado, Nazario Martín, Shaik M. Zakeeruddin and Michael Gratzel *J. Am. Chem. Soc.* 2010 **132**, 5164
- [**Carbon fibre tips for scanning probe microscopy based on quartz tuning fork force sensors**](#) Castellanos-Gomez A, Agrait N, Rubio-Bollinger G, *Nanotechnology* **21**, 145702(2010)

- [Molecular tweezers for fullerenes](#)
Perez EM, Martin N, *Pure and Applied Chemistry* **82**, 523(2010)
- [Jean-Pierre Sauvage: The Lord of the Rings](#)
Martin N *European Journal of Organic Chemistry* 1407 (2010)
- [The experimental determination of the conductance of single molecules](#) Nichols RJ, Haiss W, Higgins SJ, Leary E, Martin S, Bethell D *Physical Chemistry Chemical Physics* **12**, 2801 (2010)
- [Characterization of single-molecule pentanedithiol junctions by inelastic electron tunneling spectroscopy and first-principles calculations](#)
Arroyo CR, Frederiksen T, Rubio-Bollinger G, Velez M, Arnau A, Sanchez-Portal D, Agrait N *Physical Review B* **81**, 075405 (2010)
- [Theoretical Characterization of Charge Transport in One-dimensional Collinear Arrays of Organic Conjugated Molecules](#) L. Viani, Y. Olivier, S. Athanasopoulos, D. A. de Silva Filho, J. Hulliger, J.-L. Brédas, J. Gierschner, J. Cornil, *ChemPhysChem* **11**,(2010)1602
- **Weak Forces at Work in Dye-Loaded Zeolite Materials: Spectroscopic Investigation on Cation-Sulfur Interactions** G. Macchi, C. Botta, G. Calzaferri, M. Catti, J. Cornil, J. Gierschner, F. Meinardi, R. Tubino, *Phys. Chem. Chem. Phys.* **12**, (2010)2599 DOI: [10.1039/b919880f](https://doi.org/10.1039/b919880f)
- [An ellipsoidal mirror for focusing neutral atomic and molecular beams](#) Fladischer, H Reingruber, T Reisinger, V Mayrhofer, W E Ernst, A E Ross, , D A MacLaren, W Allison, D Litwin, J Galas, S Sitarek, P Nieto, D Barredo, D Farías, R Miranda, B Surma, A Miros, B Piatkowski, E Søndergård and B Holst *New Journal of Physics* **12**, (2010) 033018 doi:[10.1088/1367-2630/12/3/033018](https://doi.org/10.1088/1367-2630/12/3/033018)
- [Imaging and quantifying perpendicular exchange biased systems by soft x-ray holography and spectroscopy](#) C. Tieg E. Jiménez, J. Camarero, _ J. Vogel, C. Arm, B. Rodmacq, E. Gautier, S. Auffret, B. Delaup, G. Gaudin, B. Dieny, and R. Miranda *Applied Physics Letters* **96**, 072503 (2010)
- [A bis-exTTF macrocyclic receptor that associates C60 with micromolar affinity](#) H. Isla, M. Gallego, E. M. Pérez, R. Viruela, E. Ortí and N. Martín, *J. Am. Chem. Soc.* 2010 **132**, 1772
- [A high-reflectivity atom-focusing mirror stable at room temperature](#) D. Barredo, G. Laurent, F. Calleja, P. Nieto, J. J. Hinarejos, A. L. Vázquez de Parga, D. Farías, and R. Miranda, *Applied Physics Letters* **96**, 081901 (2010)
- [Sputtering-induced modification of the electronic properties of Ag/Cu\(111\)](#) A. Politano and G Chiarello, *J. Phys. D: Appl. Phys.* **43**, (2010) 085302
- [Alkali-promoted stabilization of subsurface oxygen on Cu\(111\)](#) (249 KB) A. Politano A.R. Marino, G. Chiarello, *Chemical Physics* **367**, (2010) 148
- [Periodically modulated geometric and electronic structure of graphene on Ru\(0001\)](#) B Borca, S Barja, M Garnica, J J Hinarejos, A L Vázquez de Parga, R Miranda and F Guinea *Semicond, Sci. Technol.* **25**, (2010), 034001
- [CO-promoted formation of the alkali-oxygen bond on Ni\(111\)](#) (1.575 KB) A. Politano, A. R. Marino, G. Chiarello, *Journal of Chemical Physics* **132**, 044706 (2010)
- [CdSe/CdS Nanoparticles Immobilized on pNIPAM-Based Microspheres](#) A.Salcher, M. Nikolik, S. Casado, M. Vélez, H. Weller and B. H. Juárez, *J. Mater. Chem.*,2010, **20**, 1367

- [Ultrafast optical gain switch in organic photonic devices](#) T. Virgili, J. Clark, J. Cabanillas-Gonzalez, L. Bazzana, K. C. Vishnubhatla, R. Osellame, R. Ramponi and G. Lanzani, *J. Mater. Chem.*, 2010, **20**, 519
- [Plasmonic modes confined in nanoscale thin silver films deposited onto metallic substrates](#) Politano, V. Formoso and G. Chiarello, *Journal of Nanoscience and Nanotechnology*, 2010, **10**, 1313
- [Lipid Domains and Mechanical Plasticity of Escherichia coli Lipid Monolayers](#) Ivan Lopez-Montero, Laura R Arriaga; German Rivas; Marisela Velez; Francisco Monroy *Chemistry and Physics*, 163, 2010, 56
- **The folding of repeat proteins** A.L. Cortajarena and L. Regan *Comprehensive Biophysics. Elsevier Ed.* In press, 2010