

## Publications

2008

**Metallic nanoparticle arrays: a common substrate for both surface-enhanced raman scattering and surface-enhanced infrared absorption.**

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**Modeling the properties of carbon nanotubes for sensor-based devices.**

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**Hydration water dynamics in solutions of hydrophilic polymers, biopolymers and other glass forming materials by dielectric spectroscopy.**

Cervený S, Alegria A, and Colmenero J.  
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**Dynamic screening and electron dynamics in non-homogeneous metal systems.**

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**Zr-metal adhesion on graphenic nanostructures.**

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**Quantum beats and fine structure in attosecond chronoscopy of strong-field photoionization of atoms.**

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**Thermal fluctuations of DNA enclosed by glycerol-water glassy matrices: an elastic neutron scattering investigation.**

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**Fermi surface nesting and phonon instabilities in simple cubic calcium.**

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**Time-dependent current-density functional theory for the friction of ions in an interacting electron gas.**

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**Natural orbital functional description of van der Waals interactions.**

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**The role of dimensionality on the quenching of spin-orbit effects in the optics of gold nanostructures.**

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