# JosÃ© Luis RodrÃ-guez-LÃ³pez

List of Publications by Year
in descending order



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|---|---|---|---|
| 40 papers | 1,081 citations | 516710 16 h-index | 395702 33 g-index |
| 41 all docs | 41 docs citations | 41 times ranked | 1766 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Surface Modification of TiO<sub>2</sub> with Ag Nanoparticles and CuO Nanoclusters for Application in Photocatalysis. Journal of Physical Chemistry C, 2016, 120, 5143-5154. | 3.1 | 241 |
| 2 | Structure and magnetism of cobalt clusters. Physical Review B, 2003, 67, . | 3.2 | 128 |
| 3 | Luminescence Concentration Quenching Mechanism in Gd<sub>2</sub>O<sub>3</sub>:Eu<sup>3+</sup>.. Journal of Physical Chemistry A, 2014, 118, 1390-1396. | 2.5 | 99 |
| 4 | Surface Reconstruction and Decahedral Structure of Bimetallic Nanoparticles. Physical Review Letters, 2004, 92, 196102. | 7.8 | 88 |
| 5 | Comparison of two synthesis methods on the preparation of Fe, N-Co-doped TiO2 materials for degradation of pharmaceutical compounds under visible light. Ceramics International, 2017, 43, 5068-5079. | 4.8 | 63 |
| 6 | Molecular dynamics study of bimetallic nanoparticles: the case of AuxCuy alloy clusters. Applied Surface Science, 2003, 219, 56-63. | 6.1 | 56 |
| 7 | Atomic Surface Segregation and Structural Characterization of PdPt Bimetallic Nanoparticles. Materials, 2018, 11, 1882. | 2.9 | 39 |
| 8 | Orbital magnetism at the surfaces of3dtransition metals. Physical Review B, 1998, 57, 1040-1045. | 3.2 | 35 |
| 9 | Luminescence and energy transfer properties of Eu3+ and Gd3+ in ZrO2. Journal of Luminescence, 2014, 146, 398-403. | 3.1 | 33 |
| 10 | Generalizing segregation and chemical ordering in bimetallic nanoclusters through atomistic view points. Physical Review B, 2009, 80, . | 3.2 | 32 |
| 11 | In situ TEM study of mechanical behaviour of twinned nanoparticles. Philosophical Magazine, 2012, 92, 4437-4453. | 1.6 | 24 |
| 12 | The Completion of the Platonic Atomic Polyhedra: The Dodecahedron. Small, 2006, 2, 351-355. | 10.0 | 22 |
| 13 | Inhibition of Fungal Growth Using Modified TiO<sub>2</sub> with Core@Shell Structure of Ag@CuO Clusters. ACS Applied Bio Materials, 2019, 2, 5626-5633. | 4.6 | 21 |
| 14 | Heterojunction of CuO nanoclusters with TiO2 for photo-oxidation of organic compounds and for hydrogen production. Journal of Chemical Physics, 2020, 153, 034705. | 3.0 | 19 |
| 15 | Assessment of isobaric-isothermal (NPT) simulations for finite systems. Computational Materials Science, 2006, 37, 526-536. | 3.0 | 17 |
| 16 | Nucleation and Growth of Stellated Gold Clusters: Experimental Synthesis and Theoretical Study. Journal of Physical Chemistry C, 2010, 114, 21051-21060. | 3.1 | 16 |
| 17 | ComparaciÃ³n de angiografÃa coronaria rotacional de doble eje (XPERSWING) frente a tÃ©cnica convencional en la prÃ¡ctica habitual. Revista Espanola De Cardiologia, 2012, 65, 434-439. | 1.2 | 16 |
| 18 | LOW DIMENSIONAL NON-CRYSTALLOGRAPHIC METALLIC NANOSTRUCTURES: HRTEM SIMULATION, MODELS AND EXPERIMENTAL RESULTS. Modern Physics Letters B, 2006, 20, 725-751. | 1.9 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Magnetic moments of. European Physical Journal D, 1999, 6, 235. | 1.3 | 15 |
| 20 | Reduced graphene oxide decorated with magnetite nanoparticles enhance biomethane enrichment. Journal of Hazardous Materials, 2020, 397, 122760. | 12.4 | 15 |
| 21 | Magnetic structure of cobalt clusters. Journal of Alloys and Compounds, 2004, 369, 93-96. | 5.5 | 11 |
| 22 | Finite single wall capped carbon nanotubes under hydrostatic pressure. Journal of Physics Condensed Matter, 2006, 18, 9119-9128. | 1.8 | 10 |
| 23 | Enhanced tunneling through nonstationary barriers. Physical Review A, 2007, 76, . | 2.5 | 9 |
| 24 | A Variable-Number Genetic Algorithm for Growth of 1-Dimensional Nanostructures into Their Global Minimum Configuration Under Radial Confinement. Materials and Manufacturing Processes, 2009, 24, 265-273. | 4.7 | 9 |
| 25 | Size Effect and Shape Stability of Nanoparticles. Key Engineering Materials, 0, 444, 47-68. | 0.4 | 9 |
| 26 | Nanostructured complex of reduced graphene oxide adorned with magnetite as an adsorbent for inhibitor compounds in wood hydrolysates. Microporous and Mesoporous Materials, 2021, 310, 110592. | 4.4 | 7 |
| 27 | Enhanced Reduction of p-Nitrophenol by a Methanogenic Consortium Promoted by Metallic Nanoparticles. Water, Air, and Soil Pollution, 2016, 227, 1. | 2.4 | 6 |
| 28 | Response to â€œComment on â€˜Electrum, the Goldâ€“Silver Alloy, from the Bulk Scale to the Nanoscale: Synthesis, Properties, and Segregation Rulesâ€™â€•. ACS Nano, 2016, 10, 10620-10622. | 14.6 | 5 |
| 29 | Effects of the structural deformations on the magnetism of Rh6 and Rh13 clusters. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 318, 473-479. | 2.1 | 4 |
| 30 | Coronary lesions quantification with dual-axis rotational coronary angiography. Cardiovascular Revascularization Medicine, 2013, 14, 37-40. | 0.8 | 4 |
| 31 | The Decmon: a new nanoparticle shape along the truncation path from the icosahedron to the decahedron. Nanotechnology, 2019, 30, 425701. | 2.6 | 3 |
| 32 | TCT-320 Rotational angiography with â€œXperswingâ€•technique: comparative analysis of radiation dose compared to conventional angiography. Journal of the American College of Cardiology, 2012, 60, B90. | 2.8 | 2 |
| 33 | Dynamic Infrared Thermography of Nanoheaters Embedded in Skin-Equivalent Phantoms. Journal of Nanomaterials, 2018, 2018, 1-8. | 2.7 | 2 |
| 34 | Effect of Pluronic P103 Concentration on the Simple Synthesis of Ag and Au Nanoparticles and Their Application in Anatase-TiO2 Decoration for Its Use in Photocatalysis. Molecules, 2022, 27, 127. | 3.8 | 2 |
| 35 | Magnetism in small rhodium clusters under structural deformations. Journal of Alloys and Compounds, 2004, 369, 81-83. | 5.5 | 1 |
| 36 | Competition between the reaction medium and nanostructured ZnO in the photocatalytic degradation of anthracene. Toward an optimal process for polycyclic aromatic hydrocarbons remediation. Quimica Nova, 2016, , . | 0.3 | 1 |

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|---|---|---|---|
| 37 | Multibranched gold nanoparticles coated with serum proteins fit for photothermal tumor ablation. AIP Advances, 2020, 10, . | 1.3 | 1 |
| 38 | Magnetic interactions between small Ni clusters. Solid State Communications, 2000, 116, 309-314. | 1.9 | 0 |
| 39 | TCT-319 Improvement of coronary lesions quantification with rotational angiography â€œXperSwingâ€: Journal of the American College of Cardiology, 2012, 60, B90. | 2.8 | 0 |
| 40 | TCT-321 Rotational angiography with Xperswing: safety and accuracy compared to conventional angiography. Journal of the American College of Cardiology, 2012, 60, B91. | 2.8 | 0 |