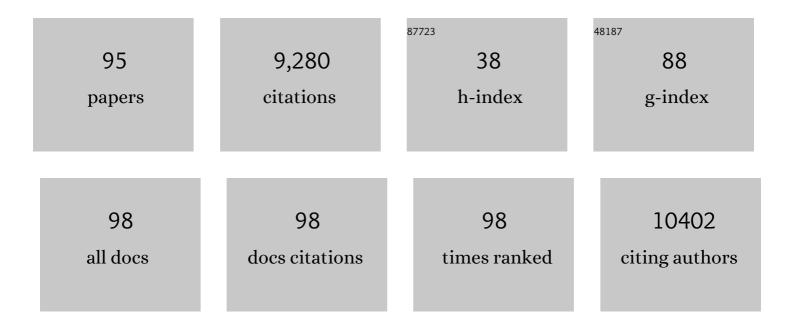
List of Publications by Year in descending order

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LORCE O SOEO

| # | Article | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Inversion domain boundaries in wurtzite GaN. Physical Review B, 2021, 103, . | 1.1 | 1 |
| 2 | Landau level phases in bilayer graphene under pressure at charge neutrality. Physical Review B, 2020, 101, . | 1.1 | 1 |
| 3 | Low-Energy Phases of Bi Monolayer Predicted by Structure Search in Two Dimensions. Journal of Physical Chemistry Letters, 2019, 10, 7324-7332. | 2.1 | 18 |
| 4 | Bending energy of 2D materials: graphene, MoS ₂ and imogolite. RSC Advances, 2018, 8, 4577-4583. | 1.7 | 26 |
| 5 | Bond Polarizability Model for Sum Frequency Generation at the Al ₂ O ₃ (0001)–H ₂ O Interface. Journal of Physical Chemistry A, 2017, 121, 3045-3055. | 1.1 | 16 |
| 6 | Bilayer graphene under pressure: Electron-hole symmetry breaking, valley Hall effect, and Landau levels. Physical Review B, 2016, 93, . | 1.1 | 18 |
| 7 | Effect of Ions on H-Bond Structure and Dynamics at the Quartz(101)–Water Interface. Langmuir, 2016, 32, 11353-11365. | 1.6 | 41 |
| 8 | Heavy Dirac fermions in a graphene/topological insulator hetero-junction. 2D Materials, 2016, 3, 034006. | 2.0 | 18 |
| 9 | New Phases in Mg-Al-Ca System. , 2016, , 427-432. | | 1 |
| 10 | First-principles studies of lattice dynamics and thermal properties of Mg ₂ Si _{1â^`<i>x</i>} Sn _{<i>x</i>} . Journal of Materials Research, 2015, 30, 2578-2584. | 1.2 | 10 |
| 11 | Electrically tunable multiple Dirac cones in thin films of the (LaO)2(SbSe2)2 family of materials. Nature Communications, 2015, 6, 8517. | 5.8 | 25 |
| 12 | Screening of charged impurities as a possible mechanism for conductance change in graphene gas sensing. Physical Review B, 2014, 90, . | 1.1 | 16 |
| 13 | Density functional theory simulation of hydrogen-bonding structure and vibrational densities of states at the quartz (1 0 1)-water interface and its relation to dissolution as a function of solution pH and ionic strength. Journal of Physics Condensed Matter, 2014, 26, 244101. | 0.7 | 20 |
| 14 | Vibrational Density of States of Strongly H-Bonded Interfacial Water: Insights from Inelastic Neutron Scattering and Theory. Journal of Physical Chemistry C, 2014, 118, 10805-10813. | 1.5 | 48 |
| 15 | The Electrical Conductivity of Strontium-Barium Niobate. Journal of Electronic Materials, 2013, 42, 1375-1376. | 1.0 | 7 |
| 16 | Analysis and optimization of carbon nanotubes and graphene sensors based on adsorption-desorption kinetics. Applied Physics Letters, 2013, 103, . | 1.5 | 21 |
| 17 | Development of a ReaxFF Reactive Force Field for Titanium Dioxide/Water Systems. Langmuir, 2013, 29, 7838-7846. | 1.6 | 96 |
| 18 | Broad photoelectron spectrum and lowered electron affinity due to hydrogen in ZnOH: A joint experimental and theoretical study. Journal of Chemical Physics, 2012, 136, 214314. | 1.2 | 6 |

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| # | Article | IF | CITATIONS |
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| 19 | Calculation of the ortho–para conversion of hydrogen in ap–type silicon lattice using a dwell time approach. Journal of Physics: Conference Series, 2012, 397, 012064. | 0.3 | 0 |
| 20 | Comment on "Structure and dynamics of liquid water on rutile TiO2(110)― Physical Review B, 2012, 85, . | 1.1 | 46 |
| 21 | Impurity State and Variable Range Hopping Conduction in Graphene. Physical Review Letters, 2012, 109, 256601. | 2.9 | 19 |
| 22 | A New Hypothesis for the Dissolution Mechanism of Silicates. Journal of Physical Chemistry C, 2012, 116, 17479-17491. | 1.5 | 52 |
| 23 | Novel substrates for Helium adsorption: Graphane and Graphene—Fluoride. Journal of Physics: Conference Series, 2012, 400, 012010. | 0.3 | 10 |
| 24 | Metal-substituted Ti8C12 metallocarbohedrynes: toward less reactive clusters as building blocks of cluster-assembled materials. Physical Chemistry Chemical Physics, 2012, 14, 9642. | 1.3 | 21 |
| 25 | Magnetic structure of hydrogen-induced defects on graphene. Physical Review B, 2012, 85, . | 1.1 | 46 |
| 26 | Adsorption of Zn ²⁺ on the (110) Surface of TiO ₂ (Rutile): A Density Functional Molecular Dynamics Study. Journal of Physical Chemistry C, 2011, 115, 9608-9614. | 1.5 | 12 |
| 27 | Gate-Voltage Control of Oxygen Diffusion on Graphene. Physical Review Letters, 2011, 106, 146802. | 2.9 | 99 |
| 28 | Dispersion of edge states and quantum confinement of electrons in graphene channels drawn on graphene fluoride. Physical Review B, 2011, 83, . | 1.1 | 14 |
| 29 | Periodic Density Functional Theory Study of Water Adsorption on the α-Quartz (101) Surface. Journal of Physical Chemistry C, 2011, 115, 5756-5766. | 1.5 | 73 |
| 30 | Faster proton transfer dynamics of water on SnO2 compared to TiO2. Journal of Chemical Physics, 2011, 134, 044706. | 1.2 | 34 |
| 31 | Electrical control of the chemical bonding of fluorine on graphene. Physical Review B, 2011, 83, . | 1.1 | 76 |
| 32 | Oxygen migration on the graphene surface. 2. Thermochemistry of basal-plane diffusion (hopping). Carbon, 2011, 49, 4226-4238. | 5.4 | 78 |
| 33 | Multiple isomers in the photoelectron spectra of small mono-niobium carbide clusters. Journal of Chemical Physics, 2011, 134, 184310. | 1.2 | 4 |
| 34 | Peter Clay Eklund: a scientific biography. Journal of Physics Condensed Matter, 2010, 22, 330301. | 0.7 | 0 |
| 35 | Ortho-para conversion of H2 in crystalline silicon. , 2010, , . | | 2 |
| 36 | Reversible fluorination of graphene: Evidence of a two-dimensional wide bandgap semiconductor. Physical Review B, 2010, 81, . | 1.1 | 365 |

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| 37 | Photoluminescence from nanocrystalline graphite monofluoride. Applied Physics Letters, 2010, 97, . | 1.5 | 31 |
| 38 | Structural, electronic, optical and vibrational properties of nanoscale carbons and nanowires: a colloquial review. Journal of Physics Condensed Matter, 2010, 22, 334201. | 0.7 | 10 |
| 39 | Hydrogen Bonds and Vibrations of Water on (110) Rutile. Journal of Physical Chemistry C, 2009, 113, 13732-13740. | 1.5 | 74 |
| 40 | n-Type Behavior of Graphene Supported on Si/SiO ₂ Substrates. ACS Nano, 2008, 2, 2037-2044. | 7.3 | 241 |
| 41 | Surface Protonation at the Rutile (110) Interface: Explicit Incorporation of Solvation Structure within the Refined MUSIC Model Framework. Langmuir, 2008, 24, 12331-12339. | 1.6 | 88 |
| 42 | Comparisons of Multilayer H ₂ O Adsorption onto the (110) Surfaces of α-TiO ₂ and SnO ₂ as Calculated with Density Functional Theory. Journal of Physical Chemistry B, 2008, 112, 11616-11624. | 1.2 | 81 |
| 43 | Analysis of periodic Schrödinger operators: Regularity and approximation of eigenfunctions. Journal of Mathematical Physics, 2008, 49, 083501. | 0.5 | 12 |
| 44 | Theory of genus reduction in alkali-induced graphitization of nanoporous carbon. Physical Review B, 2007, 76, . | 1.1 | 14 |
| 45 | Anion Photoelectron Spectroscopy and Density Functional Investigation of Diniobiumâ [~] 'Carbon Clusters. ACS Nano, 2007, 1, 319-326. | 7.3 | 14 |
| 46 | Van der Waals Dispersion Forces between Dielectric Nanoclusters. Langmuir, 2007, 23, 1735-1740. | 1.6 | 73 |
| 47 | Graphane: A two-dimensional hydrocarbon. Physical Review B, 2007, 75, . | 1.1 | 1,744 |
| 48 | van der Waals forces between nanoclusters: Importance of many-body effects. Journal of Chemical Physics, 2006, 124, 074504. | 1.2 | 57 |
| 49 | Derivation of Force Field Parameters for SnO2â [~] 'H2O Surface Systems from Plane-Wave Density Functional Theory Calculations. Journal of Physical Chemistry B, 2006, 110, 8386-8397. | 1.2 | 53 |
| 50 | Anion Photoelectron Spectroscopy and Density Functional Investigation of Vanadium Carbide Clusters. Journal of Physical Chemistry A, 2006, 110, 12814-12821. | 1.1 | 22 |
| 51 | Structure of hydrated Zn2+ at the rutile TiO2 (110)-aqueous solution interface: Comparison of X-ray standing wave, X-ray absorption spectroscopy, and density functional theory results. Geochimica Et Cosmochimica Acta, 2006, 70, 4039-4056. | 1.6 | 52 |
| 52 | Thermodynamics modeling of the Mg–Sr and Ca–Mg–Sr systems. Journal of Alloys and Compounds, 2006, 421, 172-178. | 2.8 | 41 |
| 53 | Contribution of first-principles energetics to the Ca–Mg thermodynamic modeling. Journal of Alloys and Compounds, 2006, 420, 98-106. | 2.8 | 36 |
| 54 | Linear optical properties of solids within the full-potential linearized augmented planewave method. Computer Physics Communications, 2006, 175, 1-14. | 3.0 | 1,215 |

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| 55 | How do insertions affect green fluorescent protein?. Chemical Physics Letters, 2006, 419, 48-54. | 1.2 | 6 |
| 56 | Fully retarded van der Waals interaction between dielectric nanoclusters. Journal of Chemical Physics, 2006, 125, 174303. | 1.2 | 7 |
| 57 | Electronic structure calculations of physisorption and chemisorption on oxide glass surfaces. Physical Review B, 2005, 72, . | 1.1 | 44 |
| 58 | Linking first-principles energetics to CALPHAD: An application to thermodynamic modeling of the Al-Ca binary system. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2005, 36, 5-13. | 1.1 | 41 |
| 59 | First-Principles Investigation of Laves Phases in Mg-Al-Ca System. Materials Science Forum, 2005, 488-489, 169-176. | 0.3 | 13 |
| 60 | A density-functional study of the structural, electronic, magnetic, and vibrational properties of Ti8C12 metallocarbohedrynes. Journal of Chemical Physics, 2005, 123, 154106. | 1.2 | 23 |
| 61 | Static polarizabilities of dielectric nanoclusters. Physical Review A, 2005, 72, . | 1.0 | 46 |
| 62 | An integrated framework for multi-scale materials simulation and design. Journal of Computer-Aided Materials Design, 2004, 11, 183-199. | 0.7 | 46 |
| 63 | First-principles study of binary bcc alloys using special quasirandom structures. Physical Review B, 2004, 69, . | 1.1 | 266 |
| 64 | Scanning Tunneling Microscopy Chemical Signature of Point Defects on theMoS2(0001)Surface. Physical Review Letters, 2004, 92, 026802. | 2.9 | 105 |
| 65 | Improved thermoelectric devices using bismuth alloys. Applied Physics Letters, 2004, 85, 588-590. | 1.5 | 32 |
| 66 | Protein simulations in confined environments. , 2004, , . | | 0 |
| 67 | Stress-induced defects inSb2Te3. Physical Review B, 2003, 68, . | 1.1 | 77 |
| 68 | Thermoelectric properties ofSb2Te3under pressure and uniaxial stress. Physical Review B, 2003, 68, . | 1.1 | 175 |
| 69 | Transport coefficients from first-principles calculations. Physical Review B, 2003, 68, . | 1.1 | 663 |
| 70 | Hydrogen movement in cubicMg2NiH4. Physical Review B, 2002, 65, . | 1.1 | 5 |
| 71 | Electronic structure of the pyrochlore metalsCd2Os2O7andCd2Re2O7. Physical Review B, 2002, 65, . | 1.1 | 81 |
| 72 | Photoemission study of the skutterudite compounds CoSb3and RhSb3. Journal of the Physical Society of Japan, 2002, 71, 2271-2275. | 0.7 | 12 |

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| 73 | Coverage dependence study of the adsorption of Pd on MoS2(). Surface Science, 2002, 506, 161-171. | 0.8 | 5 |
| 74 | Metal-insulator transition in the double perovskites. Physical Review B, 2001, 64, . | 1.1 | 28 |
| 75 | Diffusion and transport coefficients in synthetic opals. Physical Review B, 2000, 62, 2780-2785. | 1.1 | 12 |
| 76 | Calculation of the electronic and structural properties of cubicMg2NiH4. Physical Review B, 1999, 59, 11746-11754. | 1.1 | 63 |
| 77 | Adsorption of Pd onMoS2(1000):Ab initioelectronic-structure calculations. Physical Review B, 1999, 60, 8343-8347. | 1.1 | 32 |
| 78 | Electronic structure ofCoSb3:A narrow-band-gap semiconductor. Physical Review B, 1998, 58, 15620-15623. | 1.1 | 179 |
| 79 | Multilayer thermionic refrigerator and generator. Journal of Applied Physics, 1998, 83, 4683-4689. | 1.1 | 148 |
| 80 | The best thermoelectric Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 7436-7439. | 3.3 | 1,385 |
| 81 | Thermoelectric figure of merit ofnâ€Hg1â^'xCdxSe. Journal of Applied Physics, 1995, 77, 1561-1563. | 1.1 | 3 |
| 82 | Transport coefficients and thermoelectric figure of merit ofnâ€Hg1â^'xCdxTe. Journal of Applied Physics, 1994, 76, 2249-2254. | 1.1 | 14 |
| 83 | Optimum band gap of a thermoelectric material. Physical Review B, 1994, 49, 4565-4570. | 1.1 | 221 |
| 84 | Thermoelectric figure of merit of superlattices. Applied Physics Letters, 1994, 65, 2690-2692. | 1.5 | 167 |
| 85 | Resistivity and superconductivity from anharmonic phonons. Physical Review B, 1993, 47, 8050-8055. | 1.1 | 33 |
| 86 | Thermodynamic properties of a two-dimensional electron gas with attractive interactions. Physical Review B, 1992, 45, 8197-8200. | 1.1 | 18 |
| 87 | Slave-boson mean-field theory for the negative-UHubbard model. Physical Review B, 1992, 45, 377-382. | 1.1 | 18 |
| 88 | Ground state of the attractive-UHubbard model. Physical Review Letters, 1992, 68, 896-896. | 2.9 | 4 |
| 89 | Collective excitations in superconductors: From Bardeen-Cooper-Schrieffer theory to Bose condensation. Physical Review B, 1992, 45, 9860-9864. | 1.1 | 26 |
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| 91 | One-particle excitations in strong-coupling superconductors: A new realization of thet-Jmodel. Physical Review B, 1990, 42, 10241-10244. | 1.1 | 14 |
| 92 | Electronic structure ofBaPb1â^'xBixO3. Physical Review B, 1989, 39, 9701-9703. | 1.1 | 15 |
| 93 | Effect of the local charge disproportionation on the electronic structure ofBaPb1â^'xBixO3. Physical Review B, 1989, 40, 6955-6962. | 1.1 | 15 |
| 94 | Charge distribution in GaAsâ€Ga1â^'xAlxAs heterostructures under an external magnetic field. Applied Physics Letters, 1988, 53, 282-284. | 1.5 | 0 |
| 95 | Critical behavior of Young's modulus for two-dimensional randomly holed metallized Mylar. Physical Review B, 1987, 36, 3960-3962. | 1.1 | 9 |