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List of Publications by Year in descending order

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33
papers

12,873
citations

411340

20
h-index

445137

33
g-index

33
all docs

33
docs citations

33
times ranked

13125
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies. Chemical Reviews, 2022, 122, 6117-6321. | 23.0 | 195 |
| 2 | A combined helium atom scattering and density-functional theory study of the Nb(100) surface oxide reconstruction: Phonon band structures and vibrational dynamics. Journal of Chemical Physics, 2022, 156, 124702. | 1.2 | 2 |
| 3 | Single-Crystal Alkali Antimonide Photocathodes: High Efficiency in the Ultrathin Limit. Physical Review Letters, 2022, 128, 114801. | 2.9 | 20 |
| 4 | Analysis of magnetic vortex dissipation in Sn-segregated boundaries in Nb_3Sn superconducting RF cavities. Physical Review B, 2021, 103, . | 1.1 | 10 |
| 5 | Effect of the density of states at the Fermi level on defect free energies and superconductivity: A case study of Nb_3Sn . Physical Review B, 2021, 103, . | 1.1 | 10 |
| 6 | Micrometer-sized electrically programmable shape-memory actuators for low-power microrobotics. Science Robotics, 2021, 6, . | 9.9 | 62 |
| 7 | Importance of bulk excitations and coherent electron-photon-phonon scattering in photoemission from PbTe(111): <i>Ab initio</i> theory with experimental comparisons. Physical Review B, 2021, 104, . | 1.1 | 4 |
| 8 | <i>Ab initio</i> theory of the impact of grain boundaries and substitutional defects on superconducting Nb_3Sn . Superconductor Science and Technology, 2021, 34, 015015. | 1.8 | 9 |
| 9 | Ultracold Electrons via Near-Threshold Photoemission from Single-Crystal Cu(100). Physical Review Letters, 2020, 125, 054801. | 2.9 | 35 |
| 10 | Suppression of nano-hydride growth on Nb(100) due to nitrogen doping. Journal of Chemical Physics, 2020, 152, 214703. | 1.2 | 9 |
| 11 | <i>Ab Initio</i> Mismatched Interface Theory of Graphene on RuCl_2 : Doping and Magnetism. Physical Review Letters, 2020, 124, 106804. | 2.9 | 39 |
| 12 | Low energy photoemission from (100) $\text{Ba}_{1-x}\text{La}_x\text{SnO}_3$ thin films for photocathode applications. European Physical Journal: Special Topics, 2019, 228, 713-718. | 1.2 | 2 |
| 13 | Direct visualization of sulfur cathodes: new insights into Li-S batteries via operando X-ray based methods. Energy and Environmental Science, 2018, 11, 202-210. | 15.6 | 96 |
| 14 | Density-functional fluctuation theory of crowds. Nature Communications, 2018, 9, 3538. | 5.8 | 20 |
| 15 | Grand canonical electronic density-functional theory: Algorithms and applications to electrochemistry. Journal of Chemical Physics, 2017, 146, 114104. | 1.2 | 211 |
| 16 | Designing solid-liquid interphases for sodium batteries. Nature Communications, 2017, 8, 898. | 5.8 | 303 |
| 17 | JDFTx: Software for joint density-functional theory. SoftwareX, 2017, 6, 278-284. | 1.2 | 238 |
| 18 | Structure of the Photo-catalytically Active Surface of SrTiO_3 . Journal of the American Chemical Society, 2016, 138, 7816-7819. | 6.6 | 64 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Spicing up continuum solvation models with SaLSA: The spherically averaged liquid susceptibility ϵ^* ansatz. <i>Journal of Chemical Physics</i> , 2015, 142, 054102. | 1.2 | 48 |
| 20 | Computationally efficient dielectric calculations of molecular crystals. <i>Journal of Chemical Physics</i> , 2015, 142, 214101. | 1.2 | 2 |
| 21 | A recipe for free-energy functionals of polarizable molecular fluids. <i>Journal of Chemical Physics</i> , 2014, 140, 144504. | 1.2 | 24 |
| 22 | Implicit solvation model for density-functional study of nanocrystal surfaces and reaction pathways. <i>Journal of Chemical Physics</i> , 2014, 140, 084106. | 1.2 | 1,676 |
| 23 | Weighted-density functionals for cavity formation and dispersion energies in continuum solvation models. <i>Journal of Chemical Physics</i> , 2014, 141, 134105. | 1.2 | 26 |
| 24 | Nanoscale Imaging of Lithium Ion Distribution During In Situ Operation of a Battery Electrode and Electrolyte. <i>Microscopy and Microanalysis</i> , 2014, 20, 1524-1525. | 0.2 | 2 |
| 25 | Elastic effects of vacancies in strontium titanate: Short- and long-range strain fields, elastic dipole tensors, and chemical strain. <i>Physical Review B</i> , 2009, 80, . | 1.1 | 117 |
| 26 | Three-Dimensional Imaging of Carbon Nanotubes Deformed by Metal Islands. <i>Nano Letters</i> , 2007, 7, 3770-3773. | 4.5 | 31 |
| 27 | Electron-Phonon Scattering in Metallic Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2004, 4, 517-520. | 4.5 | 676 |
| 28 | Improved tensor-product expansions for the two-particle density matrix. <i>Physical Review A</i> , 2002, 65, . | 1.0 | 59 |
| 29 | Multiresolution analysis for efficient, high precision all-electron density-functional calculations. <i>Physical Review B</i> , 2002, 65, . | 1.1 | 20 |
| 30 | Accurate calculations of the Peierls stress in small periodic cells. <i>Journal of Computer-Aided Materials Design</i> , 2001, 8, 161-172. | 0.7 | 11 |
| 31 | Atomic-level physics of grain boundaries in bcc molybdenum. <i>Physical Review B</i> , 2001, 64, . | 1.1 | 22 |
| 32 | Ab Initio Study of Screw Dislocations in Mo and Ta: A New Picture of Plasticity in bcc Transition Metals. <i>Physical Review Letters</i> , 2000, 84, 1499-1502. | 2.9 | 185 |
| 33 | Iterative minimization techniques for ab initio total-energy calculations: molecular dynamics and conjugate gradients. <i>Reviews of Modern Physics</i> , 1992, 64, 1045-1097. | 16.4 | 8,643 |