

Johannes Lischner

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

2,342
citations

293460

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242451

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docs citations

67
times ranked

3695
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Lifetime effects and satellites in the photoelectron spectrum of tungsten metal. <i>Physical Review B</i> , 2022, 105, . | 1.1 | 8 |
| 2 | Chiral valley phonons and flat phonon bands in moiré materials. <i>Physical Review B</i> , 2022, 105, . | 1.1 | 10 |
| 3 | Unconventional superconductivity in magic-angle twisted trilayer graphene. <i>Npj Quantum Materials</i> , 2022, 7, . | 1.8 | 35 |
| 4 | Predicting core electron binding energies in elements of the first transition series using the \hat{I}^* -self-consistent-field method. <i>Faraday Discussions</i> , 2022, 236, 364-373. | 1.6 | 4 |
| 5 | Electronic structure of monolayer and bilayer black phosphorus with charged defects. <i>Physical Review Materials</i> , 2022, 6, . | 0.9 | 0 |
| 6 | Atomistic Hartree theory of twisted double bilayer graphene near the magic angle. <i>Electronic Structure</i> , 2022, 4, 025001. | 1.0 | 4 |
| 7 | Plasmon-Induced Hot Carriers from Interband and Intraband Transitions in Large Noble Metal Nanoparticles. , 2022, 1, . | | 11 |
| 8 | Dielectric Engineering of Hot-Carrier Generation by Quantized Plasmons in Embedded Silver Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2021, 125, 3081-3087. | 1.5 | 5 |
| 9 | Importance of long-ranged electron-electron interactions for the magnetic phase diagram of twisted bilayer graphene. <i>Physical Review B</i> , 2021, 103, . | 1.1 | 17 |
| 10 | Layer-resolved many-electron interactions in delafossite PdCoO ₂ from standing-wave photoemission spectroscopy. <i>Communications Physics</i> , 2021, 4, . | 2.0 | 7 |
| 11 | Light-Induced Charge Transfer from Transition-Metal-Doped Aluminum Clusters to Carbon Dioxide. <i>Journal of Physical Chemistry A</i> , 2021, 125, 5878-5885. | 1.1 | 2 |
| 12 | Flat band properties of twisted transition metal dichalcogenide homo- and heterobilayers of MoS ₂ , MoSe ₂ , WS ₂ and WSe ₂ . <i>2D Materials</i> , 2021, 8, 045010. | 2.0 | 39 |
| 13 | Flat bands, electron interactions, and magnetic order in magic-angle mono-trilayer graphene. <i>Physical Review Materials</i> , 2021, 5, . | 0.9 | 14 |
| 14 | Optical read-out of Coulomb staircases in a moiré superlattice via trapped interlayer trions. <i>Nature Nanotechnology</i> , 2021, 16, 1237-1243. | 15.6 | 23 |
| 15 | Core Electron Binding Energies in Solids from Periodic All-Electron \hat{I}^* -Self-Consistent-Field Calculations. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9353-9359. | 2.1 | 17 |
| 16 | Substitutional Tin Acceptor States in Black Phosphorus. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22883-22889. | 1.5 | 5 |
| 17 | Imaging Reconfigurable Molecular Concentration on a Graphene Field-Effect Transistor. <i>Nano Letters</i> , 2021, 21, 8770-8776. | 4.5 | 6 |
| 18 | Effect of bilayer stacking on the atomic and electronic structure of twisted double bilayer graphene. <i>Physical Review B</i> , 2020, 102, . | 1.1 | 24 |

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|----|--|------|-----------|
| 19 | Frontier orbitals and quasiparticle energy levels in ionic liquids. <i>Npj Computational Materials</i> , 2020, 6, . | 3.5 | 3 |
| 20 | Generation of plasmonic hot carriers from d-bands in metallic nanoparticles. <i>Journal of Chemical Physics</i> , 2020, 152, 104111. | 1.2 | 14 |
| 21 | Resonant and bound states of charged defects in two-dimensional semiconductors. <i>Physical Review B</i> , 2020, 101, . | 1.1 | 23 |
| 22 | Untying the insulating and superconducting orders in magic-angle graphene. <i>Nature</i> , 2020, 583, 375-378. | 13.7 | 323 |
| 23 | Critical role of device geometry for the phase diagram of twisted bilayer graphene. <i>Physical Review B</i> , 2020, 101, . | 1.1 | 22 |
| 24 | Gate-Tunable Reversible Rashba-Edelstein Effect in a Few-Layer Graphene/2H-TaS ₂ Heterostructure at Room Temperature. <i>ACS Nano</i> , 2020, 14, 5251-5259. | 7.3 | 50 |
| 25 | A molecular shift register made using tunable charge patterns in one-dimensional molecular arrays on graphene. <i>Nature Electronics</i> , 2020, 3, 598-603. | 13.1 | 12 |
| 26 | Hartree theory calculations of quasiparticle properties in twisted bilayer graphene. <i>Electronic Structure</i> , 2020, 2, 034001. | 1.0 | 39 |
| 27 | Twist-angle sensitivity of electron correlations in moiré graphene bilayers. <i>Physical Review B</i> , 2019, 100, . | 1.1 | 38 |
| 28 | Multiscale modelling of charged impurities in two-dimensional materials. <i>Computational Materials Science</i> , 2019, 160, 368-373. | 1.4 | 5 |
| 29 | Single plasmon hot carrier generation in metallic nanoparticles. <i>Communications Physics</i> , 2019, 2, . | 2.0 | 28 |
| 30 | Coexistence of Different Charge-Transfer Mechanisms in the Hot-Carrier Dynamics of Hybrid Plasmonic Nanomaterials. <i>Nano Letters</i> , 2019, 19, 3187-3193. | 4.5 | 34 |
| 31 | Attractive electron-electron interactions from internal screening in magic-angle twisted bilayer graphene. <i>Physical Review B</i> , 2019, 100, . | 1.1 | 35 |
| 32 | Insights into the electronic structure of OsO ₂ using soft and hard x-ray photoelectron spectroscopy in combination with density functional theory. <i>Physical Review Materials</i> , 2019, 3, . | 0.9 | 9 |
| 33 | Accurate absolute core-electron binding energies of molecules, solids, and surfaces from first-principles calculations. <i>Physical Review Materials</i> , 2019, 3, . | 0.9 | 35 |
| 34 | Electron-phonon coupling and hot electron thermalization in titanium nitride. <i>Physical Review Materials</i> , 2019, 3, . | 0.9 | 21 |
| 35 | Universal Scaling of Intrinsic Resistivity in Two-Dimensional Metallic Borophene. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4585-4589. | 7.2 | 25 |
| 36 | Universal Scaling of Intrinsic Resistivity in Two-Dimensional Metallic Borophene. <i>Angewandte Chemie</i> , 2018, 130, 4675-4679. | 1.6 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Material, Size, and Environment Dependence of Plasmon-Induced Hot Carriers in Metallic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8517-8527. | 1.5 | 66 |
| 38 | Core electron binding energies of adsorbates on Cu(111) from first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 30403-30411. | 1.3 | 23 |
| 39 | Strong correlations and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{d} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mi} \text{mathvariant="italic"} \rangle \text{id} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ superconductivity in twisted bilayer graphene. <i>Physical Review B</i> , 2018, 98, . | 1.1 | 174 |
| 40 | Microscopy of hydrogen and hydrogen-vacancy defect structures on graphene devices. <i>Physical Review B</i> , 2018, 98, . | 1.1 | 5 |
| 41 | Tuning electronic properties of transition-metal dichalcogenides via defect charge. <i>Scientific Reports</i> , 2018, 8, 13611. | 1.6 | 17 |
| 42 | Computational design of bimetallic core-shell nanoparticles for hot-carrier photocatalysis. <i>Npj Computational Materials</i> , 2018, 4, . | 3.5 | 21 |
| 43 | Impact of complex adatom-induced interactions on quantum spin Hall phases. <i>Physical Review B</i> , 2018, 98, . | 1.1 | 17 |
| 44 | New Pathway for Hot Electron Relaxation in Two-Dimensional Heterostructures. <i>Nano Letters</i> , 2018, 18, 6057-6063. | 4.5 | 49 |
| 45 | Microwave Study of Field-Effect Devices Based on Graphene/Aluminum Nitride/Graphene Structures. <i>Scientific Reports</i> , 2017, 7, 44202. | 1.6 | 4 |
| 46 | First-principles multiscale modelling of charged adsorbates on doped graphene. <i>2D Materials</i> , 2017, 4, 025070. | 2.0 | 11 |
| 47 | Energy level alignment at semiconductor-water interfaces from atomistic and continuum solvation models. <i>RSC Advances</i> , 2017, 7, 43660-43670. | 1.7 | 16 |
| 48 | Spatially resolving density-dependent screening around a single charged atom in graphene. <i>Physical Review B</i> , 2017, 95, . | 1.1 | 16 |
| 49 | Accurate determination of the valence band edge in hard x-ray photoemission spectra using GW theory. <i>Journal of Applied Physics</i> , 2016, 119, . | 1.1 | 5 |
| 50 | Tuning charge and correlation effects for a single molecule on a graphene device. <i>Nature Communications</i> , 2016, 7, 13553. | 5.8 | 82 |
| 51 | Dispersion and line shape of plasmon satellites in one, two, and three dimensions. <i>Physical Review B</i> , 2016, 93, . | 1.1 | 15 |
| 52 | Spectral functions of the uniform electron gas via coupled-cluster theory and comparison to the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{G} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{W} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ related approximations. <i>Physical Review B</i> , 2016, 93, . | 1.1 | 70 |
| 53 | Numerical integration for ab initio many-electron self energy calculations within the GW approximation. <i>Journal of Computational Physics</i> , 2015, 286, 1-13. | 1.9 | 15 |
| 54 | First-principles theory of electron-spin fluctuation coupling and superconducting instabilities in iron selenide. <i>Physical Review B</i> , 2015, 91, . | 1.1 | 13 |

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|----|--|-----|-----------|
| 55 | Satellite band structure in silicon caused by electron-plasmon coupling. <i>Physical Review B</i> , 2015, 91, . | 1.1 | 43 |
| 56 | <i>GW</i> 100: Benchmarking G_0W_0 for Molecular Systems. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 5665-5687. | 2.3 | 280 |
| 57 | Satellite structures in the spectral functions of the two-dimensional electron gas in semiconductor quantum wells: A cumulant study. <i>Physical Review B</i> , 2014, 89, . | 1.1 | 21 |
| 58 | Effect of spin fluctuations on quasiparticle excitations: First-principles theory and application to sodium and lithium. <i>Physical Review B</i> , 2014, 89, . | 1.1 | 11 |
| 59 | Boron Doped diamond films as electron donors in photovoltaics: An X-ray absorption and hard X-ray photoemission study. <i>Journal of Applied Physics</i> , 2014, 116, . | 1.1 | 7 |
| 60 | Effects of self-consistency and plasmon-pole models on G_0W_0 for closed-shell molecules. <i>Physical Review B</i> , 2014, 90, . | 1.1 | 24 |
| 61 | <i>Ab Initio</i> Study of Hot Carriers in the First Picosecond after Sunlight Absorption in Silicon. <i>Physical Review Letters</i> , 2014, 112, 257402. | 2.9 | 203 |
| 62 | Physical Origin of Satellites in Photoemission of Doped Graphene: An <i>Ab Initio GW</i> Plus Cumulant Study. <i>Physical Review Letters</i> , 2013, 110, 146801. | 2.9 | 97 |
| 63 | First-Principles Calculations of Quasiparticle Excitations of Open-Shell Condensed Matter Systems. <i>Physical Review Letters</i> , 2012, 109, 036406. | 2.9 | 29 |
| 64 | Joint time-dependent density-functional theory for excited states of electronic systems in solution. <i>Physical Review B</i> , 2011, 84, . | 1.1 | 1 |
| 65 | Material limitations of carbon-nanotube inertial balances: Possibility of intrinsic yoctogram mass resolution at room temperature. <i>Physical Review B</i> , 2010, 81, . | 1.1 | 14 |
| 66 | Classical Density-Functional Theory of Inhomogeneous Water Including Explicit Molecular Structure and Nonlinear Dielectric Response. <i>Journal of Physical Chemistry B</i> , 2010, 114, 1946-1953. | 1.2 | 26 |
| 67 | Kohn-Sham-Like Approach toward a Classical Density-Functional Theory of Inhomogeneous Polar Molecular Liquids: An Application to Liquid Hydrogen Chloride. <i>Physical Review Letters</i> , 2008, 101, 216401. | 2.9 | 16 |