

Moritz Hoesch

List of Publications by Year in descending order

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129
papers

7,894
citations

53794

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51608

86
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131
all docs

131
docs citations

131
times ranked

9160
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Tunable electron-magnon coupling of ferromagnetic surface states in PdCoO ₂ . Npj Quantum Materials, 2022, 7, . | 5.2 | 12 |
| 2 | Soft x-ray imaging spectroscopy with micrometer resolution. Optica, 2021, 8, 156. | 9.3 | 6 |
| 3 | Characterization of the Percival detector with soft X-rays. Journal of Synchrotron Radiation, 2021, 28, 131-145. | 2.4 | 12 |
| 4 | Momentum-space signatures of Berry flux monopoles in the Weyl semimetal TaAs. Nature Communications, 2021, 12, 3650. | 12.8 | 20 |
| 5 | Charge Density Waves in Electron-Doped Molybdenum Disulfide. Nano Letters, 2021, 21, 5516-5521. | 9.1 | 10 |
| 6 | Coupling to zone-center optical phonons in $\sqrt{2} \times \sqrt{2}$ VSe_2 enhanced by charge density waves. Physical Review B, 2021, 104, . | 3.2 | 2 |
| 7 | Non-local effect of impurity states on the exchange coupling mechanism in magnetic topological insulators. Npj Quantum Materials, 2020, 5, . | 5.2 | 8 |
| 8 | Observation of strong two-electron-one-photon transitions in few-electron ions. Physical Review A, 2020, 102, . | 2.5 | 7 |
| 9 | High Resolution Photoexcitation Measurements Exacerbate the Long-Standing Fe XVII Oscillator Strength Problem. Physical Review Letters, 2020, 124, 225001. | 7.8 | 25 |
| 10 | Bulk and Surface Electronic Structure of the Dual-Topology Semimetal $\text{Pt}_2\text{Mn}_2\text{S}_2$. Physical Review Letters, 2020, 124, 106402. | 7.8 | 40 |
| 11 | Role of a higher-dimensional interaction in stabilizing charge density waves in quasi-one-dimensional NbSe_3 revealed by angle-resolved photoemission spectroscopy. Physical Review B, 2020, 101, . | 3.2 | 9 |
| 12 | Emitter-site specificity of hard x-ray photoelectron Kikuchi-diffraction. New Journal of Physics, 2020, 22, 103002. | 2.9 | 12 |
| 13 | Oxide Fermi liquid universality revealed by electron spectroscopy. Physical Review B, 2020, 102, . | 3.2 | 3 |
| 14 | Direct 2D spatial-coherence determination using the Fourier-analysis method: multi-parameter characterization of the P04 beamline at PETRAIII. Optics Express, 2020, 28, 7282. | 3.4 | 9 |
| 15 | Enabling time-resolved 2D spatial-coherence measurements using the Fourier-analysis method with an integrated curved-grating beam monitor. Optics Letters, 2020, 45, 5591. | 3.3 | 1 |
| 16 | Time-reversal symmetry breaking type-II Weyl state in YbMnBi ₂ . Nature Communications, 2019, 10, 3424. | 12.8 | 155 |
| 17 | Probing the reconstructed Fermi surface of antiferromagnetic BaFe ₂ As ₂ in one domain. Npj Quantum Materials, 2019, 4, . | 5.2 | 26 |
| 18 | Surface states and Rashba-type spin polarization in antiferromagnetic $\sqrt{2} \times \sqrt{2}$ MnBi (0001). Physical Review B, 2019, 100, . | 3.2 | 132 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Buried double CuO chains in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ uncovered by nano-ARPES. <i>Physical Review B</i> , 2019, 99, . | 3.2 | 25 |
| 20 | Band Structure and Spin-Orbital Texture of the $(111)\text{TaO}_3$ 2D Electron Gas. <i>Advanced Electronic Materials</i> , 2019, 5, 1800860. | 5.1 | 37 |
| 21 | Orbitally selective breakdown of Fermi liquid quasiparticles in CaMn_2P_2 . <i>Physical Review B</i> , 2019, 99, . | 3.2 | 18 |
| 22 | A weak topological insulator state in quasi-one-dimensional bismuth iodide. <i>Nature</i> , 2019, 566, 518-522. | 27.8 | 119 |
| 23 | Applications for ultimate spatial resolution in LASER based $\frac{1}{4}$ - ARPES: A FeSe case study. <i>AIP Conference Proceedings</i> , 2019, , . | 0.4 | 6 |
| 24 | Tailoring the topological surface state in ultrathin In_2Sn (111) films. <i>Physical Review B</i> , 2019, 100, . | 3.2 | 22 |
| 25 | Disorder Quenching of the Charge Density Wave in ZrTe_3 . <i>Physical Review Letters</i> , 2019, 122, 017601. | 7.8 | 21 |
| 26 | Zone plates for angle-resolved photoelectron spectroscopy providing sub-micrometre resolution in the extreme ultraviolet regime. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 467-472. | 2.4 | 16 |
| 27 | Experimental Determination of the Topological Phase Diagram in Cerium Monopnictides. <i>Physical Review Letters</i> , 2018, 120, 086402. | 7.8 | 50 |
| 28 | Direct observation of orbital hybridisation in a cuprate superconductor. <i>Nature Communications</i> , 2018, 9, 972. | 12.8 | 37 |
| 29 | Local corrugation and persistent charge density wave in ZrTe_3 with Ni intercalation. <i>Physical Review B</i> , 2018, 97, . | 3.2 | 16 |
| 30 | Fermiology and Superconductivity of Topological Surface States in PdTe_2 . <i>Physical Review Letters</i> , 2018, 120, 156401. | 7.8 | 107 |
| 31 | Topological surface state of In_2S_3 on $\text{InSb}(001)$ as studied by photoemission. <i>Physical Review B</i> , 2018, 97, . | 3.2 | 25 |
| 32 | Three-dimensional electronic structure of the nematic and antiferromagnetic phases of NaFeAs from detwinned angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2018, 97, . | 3.2 | 15 |
| 33 | Itinerant ferromagnetism of the Pd-terminated polar surface of PdCoO_2 . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12956-12960. | 7.1 | 45 |
| 34 | In-situ strain tuning of the metal-insulator-transition of Ca_2RuO_4 in angle-resolved photoemission experiments. <i>Nature Communications</i> , 2018, 9, 4535. | 12.8 | 62 |
| 35 | Orbital-selective metal-insulator transition lifting the t_{2g} band hybridization in the Hund metal $\text{Sr}_3(\text{Ru}_{1-x}\text{Mn}_x)_2\text{O}_7$. <i>Physical Review B</i> , 2018, 98, . | 3.2 | 1 |
| 36 | Surface termination and electronic reconstruction in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. <i>Physical Review B</i> , 2018, 98, . | 3.2 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Holstein polaron in a valley-degenerate two-dimensional semiconductor. Nature Materials, 2018, 17, 676-680. | 27.5 | 80 |
| 38 | Boron-Doped Graphene Nanoribbons: Electronic Structure and Raman Fingerprint. ACS Nano, 2018, 12, 7571-7582. | 14.6 | 38 |
| 39 | Lattice dynamics of the cluster chain compounds M_2 | | |

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|----|--|------|-----------|
| 55 | Narrow-band anisotropic electronic structure of ReS_2 . Physical Review B, 2017, 96, . | 8.2 | 119 |
| 56 | Dimensional Crossover in a Charge Density Wave Material Probed by Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2017, 118, 206401. | 7.8 | 22 |
| 57 | Shifts and Splittings of the Hole Bands in the Nematic Phase of FeSe. Journal of the Physical Society of Japan, 2017, 86, 053703. | 1.6 | 23 |
| 58 | Nonadiabatic Kohn Anomaly in Heavily Boron-Doped Diamond. Physical Review Letters, 2017, 119, 017001. | 7.8 | 36 |
| 59 | Experimental realization of type-II Weyl state in noncentrosymmetric TaIrTe_4 . Physical Review B, 2017, 95, . | 10.5 | 105 |
| 60 | The role of spin-orbit coupling in the electronic structure of iron-based superconductors. Physica Status Solidi (B): Basic Research, 2017, 254, 1600550. | 1.5 | 2 |
| 61 | Evidence for unidirectional nematic bond ordering in FeSe. Physical Review B, 2016, 94, . | 3.2 | 94 |
| 62 | Spin-valley locking in the normal state of a transition-metal dichalcogenide superconductor. Nature Communications, 2016, 7, 11711. | 12.8 | 85 |
| 63 | Generation and Evolution of Spin-, Valley-, and Layer-Polarized Excited Carriers in Inversion-Symmetric WSe_2 . Physical Review Letters, 2016, 117, 277201. | 7.8 | 129 |
| 64 | Tailoring the nature and strength of electron-phonon interactions in the $\text{SrTiO}_3(001)$ 2D electron liquid. Nature Materials, 2016, 15, 835-839. | 27.5 | 171 |
| 65 | Observation of non-Fermi liquid behavior in hole-doped $\text{LiFe}_1-x\text{V}_x\text{As}$. Physical Review B, 2016, 94, . | 3.2 | 12 |
| 66 | Fermi Arcs and Their Topological Character in the Candidate Type-II Weyl Semimetal MoTe_2 . Physical Review X, 2016, 6, . | 8.9 | 154 |
| 67 | Observation of large topologically trivial Fermi arcs in the candidate type-II Weyl semimetal WT . Physical Review B, 2016, 94, . | 3.2 | 174 |
| 68 | Electronic structure of YFe_2 by angle-resolved photoemission spectroscopy. Physical Review B, 2016, 93, . | 3.2 | 11 |
| 69 | Structural and magnetic phase transitions in $\text{Ca}_{1-x}\text{Fe}_x\text{As}$ electron-overdoped FeAs layers. Physical Review B, 2016, 93, . | 3.2 | 11 |
| 70 | Publisher's Note: Structural and magnetic phase transitions in $\text{Ca}_{1-x}\text{Fe}_x\text{As}$ electron-overdoped FeAs layers [Phys. Rev. B 93 , 054522 (2016)]. Physical Review B, 2016, 93, . | 3.2 | 11 |
| 71 | Evolution of the charge density wave superstructure in ZrTe_3 under pressure. Physical Review B, 2016, 93, . | 3.2 | 11 |
| 72 | Absence of giant spin splitting in the two-dimensional electron liquid at the surface of SrTiO_3 . Physical Review B, 2016, 93, . | 3.2 | 11 |

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| 91 | Emergence of the nematic electronic state in FeSe. <i>Physical Review B</i> , 2015, 91, . | 3.2 | 302 |
| 92 | Hierarchical spin-orbital polarization of a giant Rashba system. <i>Science Advances</i> , 2015, 1, e1500495. | 10.3 | 38 |
| 93 | Negative electronic compressibility and tunable spin splitting in WSe ₂ . <i>Nature Nanotechnology</i> , 2015, 10, 1043-1047. | 31.5 | 85 |
| 94 | Coherent Quasiparticles with a Small Fermi Surface in Lightly Doped SrTiO_3 . <i>Physical Review Letters</i> , 2014, 113, 256402. | 7.8 | 101 |
| 95 | Short-Range Correlations in Magnetite above the Verwey Temperature. <i>Physical Review X</i> , 2014, 4, . | 8.9 | 36 |
| 96 | A stable three-dimensional topological Dirac semimetal Cd ₃ As ₂ . <i>Nature Materials</i> , 2014, 13, 677-681. | 27.5 | 1,242 |
| 97 | Control of a Two-Dimensional Electron Gas on SrTiO_3 . <i>Physical Review Letters</i> , 2014, 113, 177601. | 7.8 | 101 |
| 98 | Direct observation of spin-polarized bulk bands in an inversion-symmetric semiconductor. <i>Nature Physics</i> , 2014, 10, 835-839. | 16.7 | 271 |
| 99 | Suppression of thermal conductivity by rattling modes in thermoelectric sodium cobaltate. <i>Nature Materials</i> , 2013, 12, 1028-1032. | 27.5 | 163 |
| 100 | Anharmonicity due to Electron-Phonon Coupling in Magnetite. <i>Physical Review Letters</i> , 2013, 110, 207204. | 7.8 | 42 |
| 101 | Phonon anomalies and lattice dynamics in the superconducting oxychlorides $\text{Ca}_{2-x}\text{CuO}_2\text{Cl}_2$. <i>Physical Review B</i> , 2013, 88, . | 3.2 | 13 |
| 102 | Surface structure of Bi ₂ Se ₃ determined by low-energy electron diffraction and surface x-ray diffraction. <i>Physical Review B</i> , 2013, 88, . | 3.2 | 37 |
| 103 | Spin Crossover in Ferropiclate at High Pressure: A Seismologically Transparent Transition?. <i>Science</i> , 2011, 331, 64-67. | 12.6 | 118 |
| 104 | Understanding the Complex Phase Diagram of Uranium: The Role of Electron-Phonon Coupling. <i>Physical Review Letters</i> , 2011, 107, 136401. | 7.8 | 47 |
| 105 | Evaluation of the coupling parameters of many-body interactions in Fe(110). <i>Physical Review B</i> , 2010, 82, . | 3.2 | 16 |
| 106 | Measurement of strong phonon softening in Cr with and without Fermi-surface nesting by inelastic x-ray scattering. <i>Physical Review B</i> , 2010, 82, . | 3.2 | 25 |
| 107 | Phonon dispersion and low-energy anomaly in CaC_6 determined by inelastic neutron and x-ray scattering experiments. <i>Physical Review B</i> , 2010, 81, . | 3.2 | 12 |
| 108 | Two- and three-dimensional band structure of ultrathin Ni on Cu(001). <i>Physical Review B</i> , 2009, 79, . | 3.2 | 7 |

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| 127 | THE FERMI SURFACE IN A MAGNETIC METAL-INSULATOR INTERFACE. Surface Review and Letters, 2002, 09, 1243-1250. | 1.1 | 22 |
| 128 | Spin-polarized Fermi surface mapping. Journal of Electron Spectroscopy and Related Phenomena, 2002, 124, 263-279. | 1.7 | 133 |
| 129 | Determining adsorbate structures from substrate emission X-ray photoelectron diffraction. Surface Science, 2001, 472, 125-132. | 1.9 | 56 |