Lenart Dudy

List of Publications by Year
in descending order

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39 papers	1,636 citations	471509 17 h-index	330143 37 g-index
39 all docs	39 docs citations	39 times ranked	2896 citing authors

#	Article	IF	Citations
1	Bismuthene on a SiC substrate: A candidate for a high-temperature quantum spin Hall material. Science, 2017, 357, 287-290.	12.6	803
2	Elemental Topological Insulator with Tunable Fermi Level: Strained<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi></mml:math>-Sn on InSb(001). Physical Review Letters, 2013, 111, 157205.	7.8	130
3	Dimensionality-Driven Metal-Insulator Transition in Spin-Orbit-Coupled <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>SrIrO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2017, 119, 256404.	7.8	81
4	1Tâ^'TiSe2: Semimetal or Semiconductor?. Physical Review Letters, 2008, 101, 237602.	7.8	71
5	In Situ Control of Separate Electronic Phases on SrTiO₃ Surfaces by Oxygen Dosing. Advanced Materials, 2016, 28, 7443-7449.	21.0	69
6	HgTe Nanocrystals for SWIR Detection and Their Integration up to the Focal Plane Array. ACS Applied Materials & Interfaces, 2019, 11, 33116-33123.	8.0	53
7	Understanding Battery Interfaces by Combined Characterization and Simulation Approaches: Challenges and Perspectives. Advanced Energy Materials, 2022, 12, .	19.5	46
8	Tailoring Materials for Mottronics: Excess Oxygen Doping of a Prototypical Mott Insulator. Advanced Materials, 2018, 30, e1706708.	21.0	45
9	Disentangling specific versus generic doping mechanisms in oxide heterointerfaces. Physical Review B, 2017, 95, .	3.2	35
10	Microscopic origin of the mobility enhancement at a spinel/perovskite oxide heterointerface revealed by photoemission spectroscopy. Physical Review B, 2017, 96, .	3.2	32
11	Photoemission spectroscopy and the unusually robust one-dimensional physics of lithium purple bronze. Journal of Physics Condensed Matter, 2013, 25, 014007.	1.8	28
12	Yb valence change in Ce1â^'xYbxCoIn5from spectroscopy and bulk properties. Physical Review B, 2013, 88, .	3.2	25
13	Double band inversion in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math> -Sn: Appearance of topological surface states and the role of orbital composition. Physical Review B, 2017, 95, .	3.2	24
14	Topological surface state of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mo>â^'</mml:mo><mml:mi>Sn</mml:mi></mml:mrow></mml:math> on InSb(001) as studied by photoemission. Physical Review B, 2018, 97, .	3.2	23
15	Tailoring the topological surface state in ultrathin <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math> -Sn(111) films. Physical Review B, 2019, 100, .	3.2	22
16	Atomic-Scale Mapping of Layer-by-Layer Hydrogen Etching and Passivation of SiC(0001) Substrates. Journal of Physical Chemistry C, 2016, 120, 10361-10367.	3.1	20
17	Pushing Absorption of Perovskite Nanocrystals into the Infrared. Nano Letters, 2020, 20, 3999-4006.	9.1	18
18	One-dimensional quantum matter: gold-induced nanowires on semiconductor surfaces. Journal of Physics Condensed Matter, 2017, 29, 433001.	1.8	16

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19	Valence band and core-level photoemission of Au/Ge(001): Band mapping and bonding sites. Physical Review B, 2014, 90, .	3.2	13
20	Testing the Cabreraâ€“Mott Oxidation Model for Aluminum under Realistic Conditions with Near-Ambient Pressure Photoemission. Journal of Physical Chemistry C, 2022, 126, 2517-2530.	3.1	11
21	A new UV and VUV beamline for angular resolved photoemission with high resolution and at low energy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 693, 160-165.	1.6	10
22	Fermi Surface and Superconducting Gap of Triple-Layered Bi2Sr2Ca2Cu3O10 + Î´. Journal of Superconductivity and Novel Magnetism, 2002, 15, 147-152.	0.5	8
23	Unusual electronic ground state of a prototype cuprate: Band splitting of single CuO 2 -plane Bi 2 Sr 2 â^' x La x CuO 6 + Î´. Europhysics Letters, 2002, 60, 615-621.	2.0	6
24	Hole doping in the CuO₂-plane of Bi-cuprates studied by XAS: polycrystals and single crystals. Journal of Physics: Conference Series, 2009, 150, 052084.	0.4	6
25	Theory-restricted resonant x-ray reflectometry of quantum materials. Physical Review B, 2018, 97, .	3.2	6
26	Existence of two types of perfect Bi2Sr2â^'x La x CuO6+Î´ single crystals. JETP Letters, 2007, 85, 292-296.	1.4	5
27	Bulk spin polarization of magnetite from spin-resolved hard x-ray photoelectron spectroscopy. Physical Review B, 2021, 104, .	3.2	5
28	Toward Functionalized Ultrathin Oxide Films: The Impact of Surface Apical Oxygen. Advanced Electronic Materials, 2022, 8, .	5.1	5
29	Global perspectives of the bulk electronic structure of URu₂Si₂ from angle-resolved photoemission. Electronic Structure, 2022, 4, 013001.	2.8	4
30	Evolution of the Electronic Structure of Y-Bi-2212 from the Antiferromagnetic to the Superconducting Regime. Journal of Superconductivity and Novel Magnetism, 2004, 17, 49-52.	0.5	2
31	One-dimensional electronic structure effects of single-layer cuprates Bi-2201 and Bi(Pb)-2201. Physica C: Superconductivity and Its Applications, 2004, 408-410, 780-782.	1.2	2
32	Charge modulation driven Fermi surface of Pbâ€“Bi2201. Solid State Communications, 2007, 143, 442-445.	1.9	2
33	Structure, Superstructure and Charge Order in Bi-Cuprates. Journal of Superconductivity and Novel Magnetism, 2009, 22, 51-55.	1.8	2
34	Structural behavior ofPbyBi1.95â^'ySr1.49La0.4Cu1.15O6+Î´for0<y<0.53. Physical Review B, 2010, 81, .	3.2	2
35	Publisherâ€™s Note: Elemental Topological Insulator with Tunable Fermi Level: Strained<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î±</mml:mi><mml:mtext>â^'</mml:mtext><mml:mi>Sn</mml:mi></mml:mrow></mml:math>on InSb(001) [Phys. Rev. Lett. 111, 157205 (2013)]. Physical Review Letters, 2014, 112, .	7.8	2
36	Progress in the understanding of the normal state of the cuprates. Applied Physics A: Materials Science and Processing, 2003, 76, 673-679.	2.3	1

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37	Comment on â€œSuperconducting Coherence Peak in the Electronic Excitations of a Single-Layer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Sr</mml:mi><mml:mn Superconductorâ€•. Physical Review Letters, 2009, 103, 109701; author reply 109702.	7.8	1
38	Partial gap in two-leg ladders with Rashba effect and its experimental signatures in Si(553)-Au. Physical Review B, 2021, 104, .	3.2	1
39	Photon energy dependence of ARPES-spectra of single layer Bi2Sr2â^'xLaxCuO6+Î´. Physica B: Condensed Matter, 2002, 312-313, 91-93.	2.7	0