

J Hugo Dil

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

100
papers

8,321
citations

38
h-index

91
g-index

105
ext. papers

9,108
ext. citations

7.3
avg, IF

5.42
L-index

#	Paper	IF	Citations
100	Disclosing the response of the surface electronic structure in SrTiO ₃ (001) to strain. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022 , 40, 013213	2.9	2
99	A Real-Time Comparison of Four Particulate Matter Size Fractions in the Personal Breathing Zone of Paris Subway Workers: A Six-Week Prospective Study. <i>Sustainability</i> , 2022 , 14, 5999	3.6	2
98	Triple-Point Fermions in Ferroelectric GeTe. <i>Physical Review Letters</i> , 2021 , 126, 206403	7.4	3
97	Observation of a singular Weyl point surrounded by charged nodal walls in PtGa. <i>Nature Communications</i> , 2021 , 12, 3994	17.4	1
96	Universal Structural Influence on the 2D Electron Gas at SrTiO Surfaces. <i>Advanced Science</i> , 2021 , 8, e2100602	10.2	5
95	Fully spin-polarized bulk states in ferroelectric GeTe. <i>Physical Review Research</i> , 2020 , 2,	3.9	7
94	Unveiling the complete dispersion of the giant Rashba split surface states of ferroelectric GeTe(111) by alkali doping. <i>Physical Review Research</i> , 2020 , 2,	3.9	3
93	Single spin-polarized Fermi surface in SrTiO ₃ thin films. <i>Physical Review Research</i> , 2020 , 2,	3.9	3
92	Spreading Frost Under the Microscope. <i>Physics Magazine</i> , 2020 , 13,	1.1	3
91	Large magnetothermopower and anomalous Nernst effect in HfTe ₅ . <i>Physical Review B</i> , 2019 , 100,	3.3	11
90	Spin- and angle-resolved photoemission on topological materials. <i>Electronic Structure</i> , 2019 , 1, 023001	2.6	15
89	Atomic scale electronic structure and response in attosecond photoemission delays: A case study using non-centrosymmetric BiTeCl. <i>EPJ Web of Conferences</i> , 2019 , 205, 02016	0.3	
88	Ferroelectric Self-Poling in GeTe Films and Crystals. <i>Crystals</i> , 2019 , 9, 335	2.3	9
87	Formation of Sn-Induced Nanowires on Si(557). <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1900153	1.3	1
86	Spin-resolved electronic structure of ferroelectric GeTe and multiferroic Ge _{1-x} Mn _x Te. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 128, 237-244	3.9	7
85	Universal scattering response across the type-II Weyl semimetal phase diagram. <i>Physical Review B</i> , 2018 , 97,	3.3	10
84	Topological surface state of Bi on InSb(001) as studied by photoemission. <i>Physical Review B</i> , 2018 , 97,	3.3	17

83	Observation of a two-dimensional electron gas at CaTiO ₃ film surfaces. <i>Applied Surface Science</i> , 2018 , 432, 41-45	6.7	13
82	Influence of ferroelectric order on the surface electronic structure of BaTiO ₃ films studied by photoemission spectroscopy. <i>Physical Review B</i> , 2018 , 98,	3.3	5
81	Operando Imaging of All-Electric Spin Texture Manipulation in Ferroelectric and Multiferroic Rashba Semiconductors. <i>Physical Review X</i> , 2018 , 8,	9.1	19
80	Determination of the time scale of photoemission from the measurement of spin polarization 2018 , 5,		6
79	Evidence of a Coulomb-Interaction-Induced Lifshitz Transition and Robust Hybrid Weyl Semimetal in T _d -MoTe ₂ . <i>Physical Review Letters</i> , 2018 , 121, 136401	7.4	25
78	Spin-Resolved Electronic Response to the Phase Transition in MoTe ₂ . <i>Physical Review Letters</i> , 2018 , 121, 156401	7.4	14
77	Γ ₈ phase on Si(111): Spin texture of a two-dimensional Mott state. <i>Physical Review B</i> , 2018 , 98,	3.3	8
76	Γ ₈ GeTe and (GeMn)Te semiconductors: A new paradigm for spintronics 2018 ,		4
75	Evidence of large spin-orbit coupling effects in quasi-free-standing graphene on Pb/Ir(1 1 1). <i>2D Materials</i> , 2018 , 5, 035029	5.9	18
74	Spin Polarization and Attosecond Time Delay in Photoemission from Spin Degenerate States of Solids. <i>Physical Review Letters</i> , 2017 , 118, 067402	7.4	22
73	Selective Probing of Hidden Spin-Polarized States in Inversion-Symmetric Bulk MoS ₂ . <i>Physical Review Letters</i> , 2017 , 118, 086402	7.4	49
72	Spin-resolved band structure of a densely packed Pb monolayer on Si(111). <i>Physical Review B</i> , 2017 , 96,	3.3	15
71	Clean, cleaved surfaces of the photovoltaic perovskite. <i>Scientific Reports</i> , 2017 , 7, 695	4.9	24
70	Spin polarization in photoemission from the cuprate superconductor Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ <i>Physical Review B</i> , 2017 , 95,	3.3	6
69	Sputtering-induced reemergence of the topological surface state in Bi ₂ Se ₃ . <i>Physical Review B</i> , 2016 , 93,	3.3	11
68	Disentangling bulk and surface Rashba effects in ferroelectric Γ ₈ GeTe. <i>Physical Review B</i> , 2016 , 94,	3.3	51
67	Entanglement and manipulation of the magnetic and spin-orbit order in multiferroic Rashba semiconductors. <i>Nature Communications</i> , 2016 , 7, 13071	17.4	53
66	Spin-resolved photoemission study of epitaxially grown MoSe ₂ and WSe ₂ thin films. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 454001	1.8	22

65	Response of the topological surface state to surface disorder in TlBiSe ₂ . <i>New Journal of Physics</i> , 2015 , 17, 023067	2.9	17
64	Concept of a multichannel spin-resolving electron analyzer based on Mott scattering. <i>Journal of Synchrotron Radiation</i> , 2015 , 22, 708-16	2.4	18
63	Rashba-type spin splitting and spin interference of the Cu(1 1 1) surface state at room temperature. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015 , 201, 42-46	1.7	8
62	Unconventional transformation of spin Dirac phase across a topological quantum phase transition. <i>Nature Communications</i> , 2015 , 6, 6870	17.4	28
61	Surface states in lightly hole-doped sodium cobaltate Na _{1-x} CoO ₂ . <i>Physical Review B</i> , 2015 , 91,	3.3	2
60	Fermi states and anisotropy of Brillouin zone scattering in the decagonal Al-Ni-Co quasicrystal. <i>Nature Communications</i> , 2015 , 6, 8607	17.4	13
59	Observation of correlated spin-orbit order in a strongly anisotropic quantum wire system. <i>Nature Communications</i> , 2015 , 6, 8118	17.4	22
58	Observation of Fermi-Arc Spin Texture in TaAs. <i>Physical Review Letters</i> , 2015 , 115, 217601	7.4	89
57	Direct measurement of the bulk spin structure of noncentrosymmetric BiTeCl. <i>Physical Review B</i> , 2015 , 91,	3.3	11
56	Spin texture of Bi ₂ Se ₃ thin films in the quantum tunneling limit. <i>Physical Review Letters</i> , 2014 , 112, 057601	7.4	56
55	Giant spin splitting of the two-dimensional electron gas at the surface of SrTiO ₃ . <i>Nature Materials</i> , 2014 , 13, 1085-90	27	121
54	Spin-correlated electronic state on the surface of a spin-orbit Mott system. <i>Physical Review B</i> , 2014 , 90,	3.3	11
53	Angle-resolved synchrotron photoemission and density functional theory on the iridium modified Si(1 1 1) surface. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 285501	1.8	3
52	Direct observation of the spin texture in SmB ₆ as evidence of the topological Kondo insulator. <i>Nature Communications</i> , 2014 , 5, 4566	17.4	155
51	Exotic Kondo crossover in a wide temperature region in the topological Kondo insulator SmB ₆ revealed by high-resolution ARPES. <i>Physical Review B</i> , 2014 , 90,	3.3	37
50	Orbit- and atom-resolved spin textures of intrinsic, extrinsic, and hybridized Dirac cone states. <i>Physical Review B</i> , 2014 , 89,	3.3	13
49	Spin-orbital entanglement and the breakdown of singlets and triplets in Sr ₂ RuO ₄ revealed by spin- and angle-resolved photoemission spectroscopy. <i>Physical Review Letters</i> , 2014 , 112, 127002	7.4	95
48	Elemental topological insulator with tunable Fermi level: strained Bi on InSb(001). <i>Physical Review Letters</i> , 2013 , 111, 157205	7.4	110

47	Bulk and surface Rashba splitting in single termination BiTeCl. <i>New Journal of Physics</i> , 2013 , 15, 085022	2.9	50
46	Surface and bulk electronic structure of the strongly correlated system SmB ₆ and implications for a topological Kondo insulator. <i>Physical Review B</i> , 2013 , 88,	3.3	156
45	Interband spin-orbit coupling between anti-parallel spin states in Pb quantum well states. <i>New Journal of Physics</i> , 2013 , 15, 125031	2.9	15
44	Separating the bulk and surface n- to p-type transition in the topological insulator GeBi ₄ Sb _x Te ₇ . <i>Physical Review B</i> , 2013 , 88,	3.3	25
43	Excitation of coherent phonons in the one-dimensional Bi(114) surface. <i>Physical Review Letters</i> , 2013 , 110, 136806	7.4	15
42	Tuning of the Rashba effect in Pb quantum well states via a variable Schottky barrier. <i>Scientific Reports</i> , 2013 , 3, 1963	4.9	19
41	Three-dimensional spin rotations at the Fermi surface of a strongly spin-orbit coupled surface system. <i>Physical Review Letters</i> , 2012 , 108, 186801	7.4	50
40	Observation of a topological crystalline insulator phase and topological phase transition in Pb(1-x)Sn(x)Te. <i>Nature Communications</i> , 2012 , 3, 1192	17.4	481
39	Fermi nesting between atomic wires with strong spin-orbit coupling. <i>Physical Review Letters</i> , 2012 , 109, 266401	7.4	25
38	Atom-specific spin mapping and buried topological states in a homologous series of topological insulators. <i>Nature Communications</i> , 2012 , 3, 635	17.4	168
37	Hedgehog spin texture and Berry's phase tuning in a magnetic topological insulator. <i>Nature Physics</i> , 2012 , 8, 616-622	16.2	308
36	Spin-orbit-induced photoelectron spin polarization in angle-resolved photoemission from both atomic and condensed matter targets. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 173001	1.8	85
35	Disentanglement of surface and bulk Rashba spin splittings in noncentrosymmetric BiTeI. <i>Physical Review Letters</i> , 2012 , 109, 116403	7.4	128
34	Large tunable Rashba spin splitting of a two-dimensional electron gas in Bi ₂ Se ₃ . <i>Physical Review Letters</i> , 2011 , 107, 096802	7.4	351
33	Topological phase transition and texture inversion in a tunable topological insulator. <i>Science</i> , 2011 , 332, 560-4	33.3	358
32	Interference of spin states in photoemission from Sb/Ag(111) surface alloys. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 072207	1.8	17
31	Strongly enhanced electron-phonon coupling in the Rashba-split state of the Bi/Ag(111) surface alloy. <i>Physical Review B</i> , 2011 , 83,	3.3	8
30	Controlling the effective mass of quantum well states in Pb/Si(111) by interface engineering. <i>Physical Review B</i> , 2011 , 83,	3.3	16

29	Manipulating the Rashba-type spin splitting and spin texture of Pb quantum well states. <i>Physical Review B</i> , 2011 , 84,	3.3	17
28	Tuning the spin texture in binary and ternary surface alloys on Ag(111). <i>Physical Review B</i> , 2011 , 83,	3.3	13
27	Influence of the substrate lattice structure on the formation of quantum well states in thin In and Pb films on silicon. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 135008	1.8	3
26	Direct observation of spin-polarized surface states in the parent compound of a topological insulator using spin- and angle-resolved photoemission spectroscopy in a Mott-polarimetry mode. <i>New Journal of Physics</i> , 2010 , 12, 125001	2.9	26
25	Robust spin polarization and spin textures on stepped Au(111) surfaces. <i>Physical Review Letters</i> , 2010 , 104, 187602	7.4	12
24	Structural influence on the Rashba-type spin splitting in surface alloys. <i>Physical Review B</i> , 2010 , 81,	3.3	60
23	Nondegenerate metallic States on Bi(114): a one-dimensional topological metal. <i>Physical Review Letters</i> , 2009 , 102, 096802	7.4	58
22	Unconventional Fermi surface spin textures in the Bi ₂ Pb/Ag(111) surface alloy. <i>Physical Review B</i> , 2009 , 79,	3.3	35
21	Measuring spin polarization vectors in angle-resolved photoemission spectroscopy. <i>New Journal of Physics</i> , 2009 , 11, 125008	2.9	42
20	A tunable topological insulator in the spin helical Dirac transport regime. <i>Nature</i> , 2009 , 460, 1101-5	50.4	1548
19	Observation of unconventional quantum spin textures in topological insulators. <i>Science</i> , 2009 , 323, 919-23	33.3	963
18	Observation of time-reversal-protected single-dirac-cone topological-insulator states in Bi ₂ Te ₃ and Sb ₂ Te ₃ . <i>Physical Review Letters</i> , 2009 , 103, 146401	7.4	769
17	Band formation from coupled quantum dots formed by a nanoporous network on a copper surface. <i>Science</i> , 2009 , 325, 300-3	33.3	111
16	Spin and angle resolved photoemission on non-magnetic low-dimensional systems. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 403001	1.8	107
15	Comparison of electronic structure and template function of single-layer graphene and a hexagonal boron nitride nanomesh on Ru(0001). <i>Physical Review B</i> , 2009 , 79,	3.3	171
14	Surface trapping of atoms and molecules with dipole rings. <i>Science</i> , 2008 , 319, 1824-6	33.3	147
13	Quantitative vectorial spin analysis in angle-resolved photoemission: Bi/Ag(111) and Pb/Ag(111). <i>Physical Review B</i> , 2008 , 77,	3.3	133
12	Rashba-type spin-orbit splitting of quantum well states in ultrathin Pb films. <i>Physical Review Letters</i> , 2008 , 101, 266802	7.4	113

11	Coupled pb chains on si(557): origin of one-dimensional conductance. <i>Physical Review Letters</i> , 2008 , 100, 076802	7.4	45
10	Coexistence of racemic and homochiral two-dimensional lattices formed by a prochiral molecule: dicarboxystilbene on Cu(110). <i>Nano Letters</i> , 2008 , 8, 4162-7	11.5	32
9	Conformational isomers of stilbene on Si(100). <i>Surface Science</i> , 2007 , 601, 1775-1780	1.8	11
8	Quantum size effects in quasi-free-standing Pb layers. <i>Physical Review B</i> , 2007 , 75,	3.3	44
7	Quantum size effects in PbSi(111) investigated by laser-induced photoemission. <i>Physical Review B</i> , 2007 , 76,	3.3	40
6	Electron localization in metallic quantum wells: Pb versus In on Si(111). <i>Physical Review B</i> , 2006 , 73,	3.3	53
5	Surface relaxations in quantum-confined Pb. <i>Physical Review B</i> , 2005 , 72,	3.3	18
4	Atom-specific identification of adsorbed chiral molecules by photoemission. <i>Physical Review Letters</i> , 2005 , 95, 107601	7.4	42
3	Self-organization of Pb thin films on Cu(111) induced by quantum size effects. <i>Physical Review B</i> , 2004 , 70,	3.3	49
2	Adsorption of 2,3-butanediol on Si(1 0 0). <i>Surface Science</i> , 2004 , 559, 179-185	1.8	26
1	Quantum electronic stability and spectroscopy of ultrathin Pb films on Si(111)7 \times 7. <i>Physical Review B</i> , 2002 , 66,	3.3	77