

# J Hugo Dil

## List of Publications by Citations

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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	A tunable topological insulator in the spin helical Dirac transport regime. <i>Nature</i> , <b>2009</b> , 460, 1101-5	50.4	1548
99	Observation of unconventional quantum spin textures in topological insulators. <i>Science</i> , <b>2009</b> , 323, 919-23	33.3	963
98	Observation of time-reversal-protected single-dirac-cone topological-insulator states in Bi <sub>2</sub> Te <sub>3</sub> and Sb <sub>2</sub> Te <sub>3</sub> . <i>Physical Review Letters</i> , <b>2009</b> , 103, 146401	7.4	769
97	Observation of a topological crystalline insulator phase and topological phase transition in Pb(1-x)Sn(x)Te. <i>Nature Communications</i> , <b>2012</b> , 3, 1192	17.4	481
96	Topological phase transition and texture inversion in a tunable topological insulator. <i>Science</i> , <b>2011</b> , 332, 560-4	33.3	358
95	Large tunable Rashba spin splitting of a two-dimensional electron gas in Bi <sub>2</sub> Se <sub>3</sub> . <i>Physical Review Letters</i> , <b>2011</b> , 107, 096802	7.4	351
94	Hedgehog spin texture and Berry phase tuning in a magnetic topological insulator. <i>Nature Physics</i> , <b>2012</b> , 8, 616-622	16.2	308
93	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> , <b>2009</b> , 79,	3.3	171
92	Atom-specific spin mapping and buried topological states in a homologous series of topological insulators. <i>Nature Communications</i> , <b>2012</b> , 3, 635	17.4	168
91	Surface and bulk electronic structure of the strongly correlated system SmB <sub>6</sub> and implications for a topological Kondo insulator. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	156
90	Direct observation of the spin texture in SmB <sub>6</sub> as evidence of the topological Kondo insulator. <i>Nature Communications</i> , <b>2014</b> , 5, 4566	17.4	155
89	Surface trapping of atoms and molecules with dipole rings. <i>Science</i> , <b>2008</b> , 319, 1824-6	33.3	147
88	Quantitative vectorial spin analysis in angle-resolved photoemission: BiAg(111) and PbAg(111). <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	133
87	Disentanglement of surface and bulk Rashba spin splittings in noncentrosymmetric BiTeI. <i>Physical Review Letters</i> , <b>2012</b> , 109, 116403	7.4	128
86	Giant spin splitting of the two-dimensional electron gas at the surface of SrTiO <sub>3</sub> . <i>Nature Materials</i> , <b>2014</b> , 13, 1085-90	27	121
85	Rashba-type spin-orbit splitting of quantum well states in ultrathin Pb films. <i>Physical Review Letters</i> , <b>2008</b> , 101, 266802	7.4	113
84	Band formation from coupled quantum dots formed by a nanoporous network on a copper surface. <i>Science</i> , <b>2009</b> , 325, 300-3	33.3	111

83	Elemental topological insulator with tunable Fermi level: strained $\text{Bi}_2\text{Se}_3$ on $\text{InSb}(001)$ . <i>Physical Review Letters</i> , <b>2013</b> , 111, 157205	7.4	110
82	Spin and angle resolved photoemission on non-magnetic low-dimensional systems. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 403001	1.8	107
81	Spin-orbital entanglement and the breakdown of singlets and triplets in $\text{Sr}_2\text{RuO}_4$ revealed by spin- and angle-resolved photoemission spectroscopy. <i>Physical Review Letters</i> , <b>2014</b> , 112, 127002	7.4	95
80	Observation of Fermi-Arc Spin Texture in TaAs. <i>Physical Review Letters</i> , <b>2015</b> , 115, 217601	7.4	89
79	Spin-orbit-induced photoelectron spin polarization in angle-resolved photoemission from both atomic and condensed matter targets. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 173001	1.8	85
78	Quantum electronic stability and spectroscopy of ultrathin Pb films on $\text{Si}(111)7\times 7$ . <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	77
77	Structural influence on the Rashba-type spin splitting in surface alloys. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	60
76	Nondegenerate metallic States on $\text{Bi}(114)$ : a one-dimensional topological metal. <i>Physical Review Letters</i> , <b>2009</b> , 102, 096802	7.4	58
75	Spin texture of $\text{Bi}_2\text{Se}_3$ thin films in the quantum tunneling limit. <i>Physical Review Letters</i> , <b>2014</b> , 112, 057601	7.4	56
74	Entanglement and manipulation of the magnetic and spin-orbit order in multiferroic Rashba semiconductors. <i>Nature Communications</i> , <b>2016</b> , 7, 13071	17.4	53
73	Electron localization in metallic quantum wells: Pb versus In on $\text{Si}(111)$ . <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	53
72	Disentangling bulk and surface Rashba effects in ferroelectric $\text{Bi}_2\text{Te}_3$ . <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	51
71	Bulk and surface Rashba splitting in single termination $\text{BiTeCl}$ . <i>New Journal of Physics</i> , <b>2013</b> , 15, 085022	2.9	50
70	Three-dimensional spin rotations at the Fermi surface of a strongly spin-orbit coupled surface system. <i>Physical Review Letters</i> , <b>2012</b> , 108, 186801	7.4	50
69	Selective Probing of Hidden Spin-Polarized States in Inversion-Symmetric Bulk $\text{MoS}_2$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 086402	7.4	49
68	Self-organization of Pb thin films on $\text{Cu}(111)$ induced by quantum size effects. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	49
67	Coupled pb chains on $\text{Si}(557)$ : origin of one-dimensional conductance. <i>Physical Review Letters</i> , <b>2008</b> , 100, 076802	7.4	45
66	Quantum size effects in quasi-free-standing Pb layers. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	44

65	Measuring spin polarization vectors in angle-resolved photoemission spectroscopy. <i>New Journal of Physics</i> , <b>2009</b> , 11, 125008	2.9	42
64	Atom-specific identification of adsorbed chiral molecules by photoemission. <i>Physical Review Letters</i> , <b>2005</b> , 95, 107601	7.4	42
63	Quantum size effects in PbBi(111) investigated by laser-induced photoemission. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	40
62	Exotic Kondo crossover in a wide temperature region in the topological Kondo insulator SmB6 revealed by high-resolution ARPES. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	37
61	Unconventional Fermi surface spin textures in the Bi <sub>2</sub> Pb <sub>1-x</sub> Ag <sub>x</sub> (111) surface alloy. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	35
60	Coexistence of racemic and homochiral two-dimensional lattices formed by a prochiral molecule: dicarboxystilbene on Cu(110). <i>Nano Letters</i> , <b>2008</b> , 8, 4162-7	11.5	32
59	Unconventional transformation of spin Dirac phase across a topological quantum phase transition. <i>Nature Communications</i> , <b>2015</b> , 6, 6870	17.4	28
58	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> , <b>2010</b> , 12, 125001	2.9	26
57	Adsorption of 2,3-butanediol on Si(1 0 0). <i>Surface Science</i> , <b>2004</b> , 559, 179-185	1.8	26
56	Fermi nesting between atomic wires with strong spin-orbit coupling. <i>Physical Review Letters</i> , <b>2012</b> , 109, 266401	7.4	25
55	Separating the bulk and surface n- to p-type transition in the topological insulator GeBi <sub>4-x</sub> Sb <sub>x</sub> Te <sub>7</sub> . <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	25
54	Evidence of a Coulomb-Interaction-Induced Lifshitz Transition and Robust Hybrid Weyl Semimetal in T <sub>d</sub> -MoTe <sub>2</sub> . <i>Physical Review Letters</i> , <b>2018</b> , 121, 136401	7.4	25
53	Clean, cleaved surfaces of the photovoltaic perovskite. <i>Scientific Reports</i> , <b>2017</b> , 7, 695	4.9	24
52	Spin Polarization and Attosecond Time Delay in Photoemission from Spin Degenerate States of Solids. <i>Physical Review Letters</i> , <b>2017</b> , 118, 067402	7.4	22
51	Observation of correlated spin-orbit order in a strongly anisotropic quantum wire system. <i>Nature Communications</i> , <b>2015</b> , 6, 8118	17.4	22
50	Spin-resolved photoemission study of epitaxially grown MoSe <sub>2</sub> and WSe <sub>2</sub> thin films. <i>Journal of Physics Condensed Matter</i> , <b>2016</b> , 28, 454001	1.8	22
49	Operando Imaging of All-Electric Spin Texture Manipulation in Ferroelectric and Multiferroic Rashba Semiconductors. <i>Physical Review X</i> , <b>2018</b> , 8,	9.1	19
48	Tuning of the Rashba effect in Pb quantum well states via a variable Schottky barrier. <i>Scientific Reports</i> , <b>2013</b> , 3, 1963	4.9	19

47	Concept of a multichannel spin-resolving electron analyzer based on Mott scattering. <i>Journal of Synchrotron Radiation</i> , <b>2015</b> , 22, 708-16	2.4	18
46	Surface relaxations in quantum-confined Pb. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	18
45	Evidence of large spin-orbit coupling effects in quasi-free-standing graphene on Pb/Ir(1 1 1). <i>2D Materials</i> , <b>2018</b> , 5, 035029	5.9	18
44	Response of the topological surface state to surface disorder in TlBiSe <sub>2</sub> . <i>New Journal of Physics</i> , <b>2015</b> , 17, 023067	2.9	17
43	Topological surface state of Sn on InSb(001) as studied by photoemission. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	17
42	Interference of spin states in photoemission from Sb/Ag(111) surface alloys. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 072207	1.8	17
41	Manipulating the Rashba-type spin splitting and spin texture of Pb quantum well states. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	17
40	Controlling the effective mass of quantum well states in Pb/Si(111) by interface engineering. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	16
39	Spin- and angle-resolved photoemission on topological materials. <i>Electronic Structure</i> , <b>2019</b> , 1, 023001	2.6	15
38	Spin-resolved band structure of a densely packed Pb monolayer on Si(111). <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	15
37	Interband spin-orbit coupling between anti-parallel spin states in Pb quantum well states. <i>New Journal of Physics</i> , <b>2013</b> , 15, 125031	2.9	15
36	Excitation of coherent phonons in the one-dimensional Bi(114) surface. <i>Physical Review Letters</i> , <b>2013</b> , 110, 136806	7.4	15
35	Spin-Resolved Electronic Response to the Phase Transition in MoTe <sub>2</sub> . <i>Physical Review Letters</i> , <b>2018</b> , 121, 156401	7.4	14
34	Fermi states and anisotropy of Brillouin zone scattering in the decagonal Al-Ni-Co quasicrystal. <i>Nature Communications</i> , <b>2015</b> , 6, 8607	17.4	13
33	Observation of a two-dimensional electron gas at CaTiO <sub>3</sub> film surfaces. <i>Applied Surface Science</i> , <b>2018</b> , 432, 41-45	6.7	13
32	Orbit- and atom-resolved spin textures of intrinsic, extrinsic, and hybridized Dirac cone states. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	13
31	Tuning the spin texture in binary and ternary surface alloys on Ag(111). <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	13
30	Robust spin polarization and spin textures on stepped Au(111) surfaces. <i>Physical Review Letters</i> , <b>2010</b> , 104, 187602	7.4	12

29	Large magnetothermopower and anomalous Nernst effect in HfTe5. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	11
28	Sputtering-induced reemergence of the topological surface state in Bi2Se3. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	11
27	Spin-correlated electronic state on the surface of a spin-orbit Mott system. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	11
26	Direct measurement of the bulk spin structure of noncentrosymmetric BiTeCl. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	11
25	Conformational isomers of stilbene on Si(100). <i>Surface Science</i> , <b>2007</b> , 601, 1775-1780	1.8	11
24	Universal scattering response across the type-II Weyl semimetal phase diagram. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	10
23	Ferroelectric Self-Poling in GeTe Films and Crystals. <i>Crystals</i> , <b>2019</b> , 9, 335	2.3	9
22	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> , <b>2015</b> , 201, 42-46	1.7	8
21	Strongly enhanced electron-phonon coupling in the Rashba-split state of the Bi/Ag(111) surface alloy. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	8
20	2D phase on Si(111): Spin texture of a two-dimensional Mott state. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	8
19	Fully spin-polarized bulk states in ferroelectric GeTe. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	7
18	Spin-resolved electronic structure of ferroelectric $\sqrt{2}\sqrt{2}$ GeTe and multiferroic Ge $_{1-x}$ Mn $_x$ Te. <i>Journal of Physics and Chemistry of Solids</i> , <b>2019</b> , 128, 237-244	3.9	7
17	Spin polarization in photoemission from the cuprate superconductor Bi2Sr2CaCu2O8+ $\delta$ . <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	6
16	Determination of the time scale of photoemission from the measurement of spin polarization <b>2018</b> , 5,		6
15	Influence of ferroelectric order on the surface electronic structure of BaTiO3 films studied by photoemission spectroscopy. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	5
14	Universal Structural Influence on the 2D Electron Gas at SrTiO Surfaces. <i>Advanced Science</i> , <b>2021</b> , 8, e2100602	3.0	5
13	$\sqrt{2}\sqrt{2}$ GeTe and (GeMn)Te semiconductors: A new paradigm for spintronics <b>2018</b> ,		4
12	Angle-resolved synchrotron photoemission and density functional theory on the iridium modified Si(1 1 1) surface. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 285501	1.8	3

11	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> , <b>2010</b> , 22, 135008	1.8	3
10	Unveiling the complete dispersion of the giant Rashba split surface states of ferroelectric BiTe(111) by alkali doping. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	3
9	Single spin-polarized Fermi surface in SrTiO <sub>3</sub> thin films. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	3
8	Spreading Frost Under the Microscope. <i>Physics Magazine</i> , <b>2020</b> , 13,	1.1	3
7	Triple-Point Fermions in Ferroelectric GeTe. <i>Physical Review Letters</i> , <b>2021</b> , 126, 206403	7.4	3
6	Surface states in lightly hole-doped sodium cobaltate Na <sub>1-x</sub> CoO <sub>2</sub> . <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	2
5	Disclosing the response of the surface electronic structure in SrTiO <sub>3</sub> (001) to strain. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2022</b> , 40, 013213	2.9	2
4	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> , <b>2022</b> , 14, 5999	3.6	2
3	Formation of Sn-Induced Nanowires on Si(557). <i>Physica Status Solidi (B): Basic Research</i> , <b>2019</b> , 256, 1900153	15.3	1
2	Observation of a singular Weyl point surrounded by charged nodal walls in PtGa. <i>Nature Communications</i> , <b>2021</b> , 12, 3994	17.4	1
1	Atomic scale electronic structure and response in attosecond photoemission delays: A case study using non-centrosymmetric BiTeCl. <i>EPJ Web of Conferences</i> , <b>2019</b> , 205, 02016	0.3	