

# J Hugo Dil

## List of Publications by Year in descending order

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103  
papers

9,658  
citations

81839

39  
h-index

34964

98  
g-index

105  
all docs

105  
docs citations

105  
times ranked

8927  
citing authors

#	ARTICLE	IF	CITATIONS
1	A tunable topological insulator in the spin helical Dirac transport regime. Nature, 2009, 460, 1101-1105.	13.7	1,737
2	Observation of Unconventional Quantum Spin Textures in Topological Insulators. Science, 2009, 323, 919-922.	6.0	1,084
3	Observation of Time-Reversal Protected Single-Dirac-Cone Topological Insulator States in $\text{Bi}_2\text{Te}_3$ . Physical Review Letters, 2009, 103, 146401.	2.9	881
4	Observation of a topological crystalline insulator phase and topological phase transition in $\text{Pb}_{1-x}\text{Sn}_x\text{Te}$ . Nature Communications, 2012, 3, 1192.	5.8	574
5	Large Tunable Rashba Spin Splitting of a Two-Dimensional Electron Gas in $\text{Bi}_2\text{Se}_3$ . Physical Review Letters, 2011, 107, 096802.	2.9	405
6	Topological Phase Transition and Texture Inversion in a Tunable Topological Insulator. Science, 2011, 332, 560-564.	6.0	404
7	Hedgehog spin texture and Berry's phase tuning in a magnetic topological insulator. Nature Physics, 2012, 8, 616-622.	6.5	353
8	Direct observation of the spin texture in $\text{SmB}_6$ as evidence of the topological Kondo insulator. Nature Communications, 2014, 5, 4566.	5.8	193
9	Atom-specific spin mapping and buried topological states in a homologous series of topological insulators. Nature Communications, 2012, 3, 635.	5.8	192
10	Comparison of electronic structure and template function of single-layer graphene and a hexagonal boron nitride nanomesh on $\text{Ru}(0001)$ . Physical Review B, 2009, 79, .	1.1	186
11	Surface and bulk electronic structure of the strongly correlated system $\text{SmB}_6$ and implications for a topological Kondo insulator. Physical Review B, 2013, 88, .	1.1	179
12	Surface Trapping of Atoms and Molecules with Dipole Rings. Science, 2008, 319, 1824-1826.	6.0	163
13	Quantitative vectorial spin analysis in angle-resolved photoemission. Physical Review B, 2008, 77, .		
14	Disentanglement of Surface and Bulk Rashba Spin Splittings in Noncentrosymmetric $\text{BiTeI}$ . Physical Review Letters, 2012, 109, 116403.	2.9	137
15	Giant spin splitting of the two-dimensional electron gas at the surface of $\text{SrTiO}_3$ . Nature Materials, 2014, 13, 1085-1090.	13.3	137
16	Elemental Topological Insulator with Tunable Fermi Level: Strained $\text{Sn}$ on $\text{InSb}(001)$ . Physical Review Letters, 2013, 111, 157205.	2.9	130
17	Band Formation from Coupled Quantum Dots Formed by a Nanoporous Network on a Copper Surface. Science, 2009, 325, 300-303.	6.0	126
18	Rashba-Type Spin-Orbit Splitting of Quantum Well States in Ultrathin $\text{Pb}$ Films. Physical Review Letters, 2008, 101, 266802.	2.9	124

#	ARTICLE	IF	CITATIONS
19	Spin-Orbital Entanglement and the Breakdown of Singlets and Triplets in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Sr} \langle / \text{mml:mi} \rangle \langle / \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle / \text{mml:mn} \rangle \langle / \text{mml:mrow} \rangle$ by Spin- and Angle-Resolved Photoemission Spectroscopy. <i>Physical Review Letters</i> , 2014, 112, 127002.	2.9	123
20	Spin and angle resolved photoemission on non-magnetic low-dimensional systems. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 403001.	0.7	120
21	Observation of Fermi-Arc Spin Texture in TaAs. <i>Physical Review Letters</i> , 2015, 115, 217601.	2.9	115
22	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.	0.7	106
23	Quantum electronic stability and spectroscopy of ultrathin Pb films on Si(111) $7\text{\AA}$ -7. <i>Physical Review B</i> , 2002, 66, .	1.1	81
24	Selective Probing of Hidden Spin-Polarized States in Inversion-Symmetric Bulk $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{MoS} \langle / \text{mml:mi} \rangle \langle / \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle / \text{mml:mn} \rangle \langle / \text{mml:mrow} \rangle$ <i>Physical Review Letters</i> , 2017, 118, 086402.	2.9	76
25	Disentangling bulk and surface Rashba effects in ferroelectric $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" \rangle \langle \text{mml:mi} \rangle \text{Pb} \langle / \text{mml:mi} \rangle \langle / \text{mml:math} \rangle$ -GeTe. <i>Physical Review B</i> , 2016, 94, .	1.1	74
26	Entanglement and manipulation of the magnetic and spin-orbit order in multiferroic Rashba semiconductors. <i>Nature Communications</i> , 2016, 7, 13071.	5.8	68
27	Nondegenerate Metallic States on Bi(114): A One-Dimensional Topological Metal. <i>Physical Review Letters</i> , 2009, 102, 096802.	2.9	65
28	Structural influence on the Rashba-type spin splitting in surface alloys. <i>Physical Review B</i> , 2010, 81, .	1.1	64
29	Spin Texture of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Bi} \langle / \text{mml:mi} \rangle \langle / \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle / \text{mml:mn} \rangle \langle / \text{mml:mrow} \rangle$ Films in the Quantum Tunneling Limit. <i>Physical Review Letters</i> , 2014, 112, 057601.	2.9	61
30	Bulk and surface Rashba splitting in single termination BiTeCl. <i>New Journal of Physics</i> , 2013, 15, 085022.	1.2	60
31	Electron localization in metallic quantum wells: Pb versus In on Si(111). <i>Physical Review B</i> , 2006, 73, .	1.1	57
32	Three-Dimensional Spin Rotations at the Fermi Surface of a Strongly Spin-Orbit Coupled Surface System. <i>Physical Review Letters</i> , 2012, 108, 186801.	2.9	57
33	Self-organization of Pb thin films on Cu(111) induced by quantum size effects. <i>Physical Review B</i> , 2004, 70, .	1.1	51
34	Measuring spin polarization vectors in angle-resolved photoemission spectroscopy. <i>New Journal of Physics</i> , 2009, 11, 125008.	1.2	48
35	Coupled Pb Chains on Si(557): Origin of One-Dimensional Conductance. <i>Physical Review Letters</i> , 2008, 100, 076802.	2.9	47
36	Atom-Specific Identification of Adsorbed Chiral Molecules by Photoemission. <i>Physical Review Letters</i> , 2005, 95, 107601.	2.9	45

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37	Quantum size effects in quasi-free-standing Pb layers. Physical Review B, 2007, 75, .	1.1	45
38	Quantum size effects in Pb <sup>δ</sup> -Si(111) investigated by laser-induced photoemission. Physical Review B, 2007, 76, .	1.1	43
39	Exotic Kondo crossover in a wide temperature region in the topological Kondo insulator SmB <sub>6</sub> revealed by high-resolution ARPES. Physical Review B, 2014, 90, .	1.1	43
40	Unconventional Fermi surface spin textures in the Bi <sub>x</sub> Pb <sub>1-x</sub> /Ag(111) surface alloy. Physical Review B, 2009, 79, .	1.1	37
41	Evidence of a Coulomb-Interaction-Induced Lifshitz Transition and Robust Hybrid Weyl Semimetal in $T < T_c$ Physical Review Letters, 2018, 121, 136401.	2.9	37
42	Coexistence of Racemic and Homochiral Two-Dimensional Lattices Formed by a Prochiral Molecule: Dicarboxystilbene on Cu(110). Nano Letters, 2008, 8, 4162-4167.	4.5	34
43	Unconventional transformation of spin Dirac phase across a topological quantum phase transition. Nature Communications, 2015, 6, 6870.	5.8	34
44	Evidence of large spin-orbit coupling effects in quasi-free-standing graphene on Pb/Ir(111). 2D Materials, 2018, 5, 035029.	2.0	33
45	Observation of correlated spin-orbit order in a strongly anisotropic quantum wire system. Nature Communications, 2015, 6, 8118.	5.8	32
46	Adsorption of 2,3-butanediol on Si(1 0 0). Surface Science, 2004, 559, 179-185.	0.8	31
47	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. New Journal of Physics, 2010, 12, 125001.	1.2	31
48	Spin-resolved photoemission study of epitaxially grown MoSe <sub>2</sub> and WSe <sub>2</sub> thin films. Journal of Physics Condensed Matter, 2016, 28, 454001.	0.7	30
49	<i>Operando</i> Imaging of All-Electric Spin Texture Manipulation in Ferroelectric and Multiferroic Rashba Semiconductors. Physical Review X, 2018, 8, 031047.	2.8	30
50	Separating the bulk and surface $n$ - to $p$ -type transition in the topological insulator GeBi $4 < n < 4$ Physical Review Letters, 2012, 109, 266401.	1.1	29
51	Fermi Nesting between Atomic Wires with Strong Spin-Orbit Coupling. Physical Review Letters, 2012, 109, 266401.	2.9	28
52	Spin- and angle-resolved photoemission on topological materials. Electronic Structure, 2019, 1, 023001.	1.0	28
53	Spin Polarization and Attosecond Time Delay in Photoemission from Spin Degenerate States of Solids. Physical Review Letters, 2017, 118, 067402.	2.9	27
54	Clean, cleaved surfaces of the photovoltaic perovskite. Scientific Reports, 2017, 7, 695.	1.6	27

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55	Response of the topological surface state to surface disorder in TlBiSe <sub>2</sub> . New Journal of Physics, 2015, 17, 023067.	1.2	24
56	Topological surface state of $\hat{\Gamma}_\pm$ on InSb(001) as studied by photoemission. Physical Review B, 2018, 97, .	1.1	25
57	Spin-resolved band structure of a densely packed Pb monolayer on Si(111). Physical Review B, 2017, 96, .	1.1	22
58	Ferroelectric Self-Poling in GeTe Films and Crystals. Crystals, 2019, 9, 335.	1.0	22
59	Spin-Resolved Electronic Response to the Phase Transition in $\text{MoTe}_2$ . Physical Review Letters, 2018, 121, 156401.	2.9	21
60	Tuning of the Rashba effect in Pb quantum well states via a variable Schottky barrier. Scientific Reports, 2013, 3, 1963.	1.6	20
61	Manipulating the Rashba-type spin splitting and spin texture of Pb quantum well states. Physical Review B, 2011, 84, .	1.1	19
62	Concept of a multichannel spin-resolving electron analyzer based on Mott scattering. Journal of Synchrotron Radiation, 2015, 22, 708-716.	1.0	19
63	Surface relaxations in quantum-confined Pb. Physical Review B, 2005, 72, .	1.1	18
64	Interference of spin states in photoemission from Sb/Ag(111) surface alloys. Journal of Physics Condensed Matter, 2011, 23, 072207.	0.7	18
65	Controlling the effective mass of quantum well states in Pb/Si(111) by interface engineering. Physical Review B, 2011, 83, .	1.1	17
66	Interband spin-orbit coupling between anti-parallel spin states in Pb quantum well states. New Journal of Physics, 2013, 15, 125031.	1.2	17
67	Excitation of Coherent Phonons in the One-Dimensional Bi(114) Surface. Physical Review Letters, 2013, 110, 136806.	2.9	17
68	Universal scattering response across the type-II Weyl semimetal phase diagram. Physical Review B, 2018, 97, .	1.1	17
69	Observation of a two-dimensional electron gas at CaTiO <sub>3</sub> film surfaces. Applied Surface Science, 2018, 432, 41-45.	3.1	17
70	Tuning the spin texture in binary and ternary surface alloys on Ag(111). Physical Review B, 2011, 83, .	1.1	16
71	Large magnetothermopower and anomalous Nernst effect in $\text{HfTe}_5$ . Physical Review B, 2019, 100, .	1.1	16
72	Fermi states and anisotropy of Brillouin zone scattering in the decagonal AlNiCo quasicrystal. Nature Communications, 2015, 6, 8607.	5.8	15

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73	Observation of a singular Weyl point surrounded by charged nodal walls in PtGa. Nature Communications, 2021, 12, 3994.	5.8	15
74	Robust Spin Polarization and Spin Textures on Stepped Au(111) Surfaces. Physical Review Letters, 2010, 104, 187602.	2.9	14
75	Universal Structural Influence on the 2D Electron Gas at SrTiO <sub>3</sub> Surfaces. Advanced Science, 2021, 8, e2100602.	5.6	14
76	Orbit- and atom-resolved spin textures of intrinsic, extrinsic, and hybridized Dirac cone states. Physical Review B, 2014, 89, .	1.1	13
77	Direct measurement of the bulk spin structure of noncentrosymmetric BiTeCl. Physical Review B, 2015, 91, .	1.1	13
78	Fully spin-polarized bulk states in ferroelectric GeTe. Physical Review Research, 2020, 2, .	1.3	13
79	Conformational isomers of stilbene on Si(100). Surface Science, 2007, 601, 1775-1780.	0.8	12
80	Sputtering-induced reemergence of the topological surface state in $\text{Bi}_2\text{Te}_3$ . Physical Review B, 2016, 93, .		
81	Triple-Point Fermions in Ferroelectric GeTe. Physical Review Letters, 2021, 126, 206403.	2.9	12
82	Spin-correlated electronic state on the surface of a spin-orbit Mott system. Physical Review B, 2014, 90, .	1.1	11
83	Strongly enhanced electron-phonon coupling in the Rashba-split state of the Bi/Ag(111) surface alloy. Physical Review B, 2011, 83, .	1.1	10
84	$\hat{I}_\pm$ -Sn phase on Si(111): Spin texture of a two-dimensional Mott state. Physical Review B, 2018, 98, .	1.1	10
85	Spin-resolved electronic structure of ferroelectric $\hat{I}_\pm$ -GeTe and multiferroic Ge <sup>1+</sup> Mn Te. Journal of Physics and Chemistry of Solids, 2019, 128, 237-244.	1.9	10
86	Unveiling the complete dispersion of the giant Rashba split surface states of ferroelectric $\hat{I}_\pm$ -GeTe by alkali doping. Physical Review Research, 2020, 2, .		
87	Rashba-type spin splitting and spin interference of the Cu(1 1 1) surface state at room temperature. Journal of Electron Spectroscopy and Related Phenomena, 2015, 201, 42-46.	0.8	8
88	Spin polarization in photoemission from the cuprate superconductor $\text{Bi}_2\text{O}_8$ . Physical Review B, 2017, 95, .		
89	Determination of the time scale of photoemission from the measurement of spin polarization. , 2018, 5, .		7
90	Influence of the substrate lattice structure on the formation of quantum well states in thin In and Pb films on silicon. Journal of Physics Condensed Matter, 2010, 22, 135008.	0.7	6

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91	Influence of ferroelectric order on the surface electronic structure of $\text{BaTiO}_3$ studied by photoemission spectroscopy. <i>Physical Review B</i> , 2018, 98, .		
92	Finding Spin Hedgehogs in Chiral Crystals. <i>Physics Magazine</i> , 2020, 13, .	0.1	6
93	Disclosing the response of the surface electronic structure in $\text{SrTiO}_3$ (001) to strain. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, .	0.9	6
94	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.	1.6	6
95	$\hat{\Gamma}$ -GeTe and (GeMn)Te semiconductors: A new paradigm for spintronics. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	5
96	Single spin-polarized Fermi surface in $\text{SrTiO}_3$ thin films. <i>Physical Review Research</i> , 2020, 2, .	1.3	5
97	Two-dimensional electron gas at the (001) surface of ferromagnetic $\text{EuTiO}_3$ . <i>Physical Review Research</i> , 2021, 3, .	1.3	5
98	Angle-resolved synchrotron photoemission and density functional theory on the iridium modified $\text{Si}(1\bar{1}\bar{1})$ surface. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 285501.	0.7	3
99	Surface states in lightly hole-doped sodium cobaltate $\text{NaCoO}_2$ . <i>Physical Review B</i> , 2015, 91, .		
100	Formation of $\text{Sn}^{\delta-}$ induced Nanowires on $\text{Si}(557)$ . <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1900152.	0.7	1
101	Circular Dichroism in Photoelectrons from Adsorbed Chiral Molecules. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	0
102	Atomic scale electronic structure and response in attosecond photoemission delays: A case study using non-centrosymmetric $\text{BiTeCl}$ . <i>EPJ Web of Conferences</i> , 2019, 205, 02016.	0.1	0
103	Manipulating topological spin textures in multiferroic and polar materials. , 2020, , .		0