

Matthew D Watson

List of Publications by Year in descending order

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45
papers

2,594
citations

236925

25
h-index

233421

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g-index

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all docs

45
docs citations

45
times ranked

3640
citing authors

#	ARTICLE	IF	CITATIONS
1	<p>Quasiparticle Mass Enhancement Caused by Mobility Fluctuations in Bi_2Te_3. Physical Review Letters, 2015, 114, 117201.</p> <p>Doped Bi_2Te_3. Physical Review Letters, 2015, 114, 117201.</p>	7.8	306
2	Emergence of the nematic electronic state in FeSe. Physical Review B, 2015, 91, .	3.2	302
3	Electronic Structure and Enhanced Charge-Density Wave Order of Monolayer VSe_2 . Nano Letters, 2018, 18, 4493-4499.	9.1	200
4	The Key Ingredients of the Electronic Structure of FeSe. Annual Review of Condensed Matter Physics, 2018, 9, 125-146.	14.5	146
5	A weak topological insulator state in quasi-one-dimensional bismuth iodide. Nature, 2019, 566, 518-522.	27.8	119
6	Dichotomy between the Hole and Electron Behavior in Multiband Superconductor FeSe Probed by Ultrahigh Magnetic Fields. Physical Review Letters, 2015, 115, 027006.	7.8	111
7	Quasiparticle Mass Enhancement Close to the Quantum Critical Point in BaFe_2As_2 . Physical Review Letters, 2015, 115, 027006.	7.8	111
8	Suppression of orbital ordering by chemical pressure in $\text{FeSe}_x\text{Te}_{1-x}$. Physical Review B, 2015, 92, .	3.2	94
9	Evidence for unidirectional nematic bond ordering in FeSe. Physical Review B, 2016, 94, .	3.2	94
10	Study of the structural, electric and magnetic properties of Mn-doped Bi_2Te_3 single crystals. New Journal of Physics, 2013, 15, 103016.	2.9	80
11	Suppression of electronic correlations by chemical pressure from FeSe to FeS. Physical Review B, 2017, 96, .	3.2	68
12	Interaction effects and superconductivity signatures in twisted double-bilayer WSe_2 . Nanoscale Horizons, 2020, 5, 1309-1316.	8.0	68
13	Electronic anisotropies revealed by detwinned angle-resolved photo-emission spectroscopy measurements of FeSe. New Journal of Physics, 2017, 19, 103021.	2.9	65
14	Evolution of the low-temperature Fermi surface of superconducting $\text{FeSe}_{1-x}\text{S}_x$ across a nematic phase transition. Npj Quantum Materials, 2019, 4, .	5.2	62
15	de Haas-van Alphen Study of the Fermi Surfaces of Superconducting LiFeP and LiFeAs . Physical Review Letters, 2012, 108, 047002.	7.8	61
16	Formation of Hubbard-like bands as a fingerprint of strong electron-electron interactions in FeSe. Physical Review B, 2017, 95, .	3.2	59
17	Experimental Determination of the Topological Phase Diagram in Cerium Monopnictides. Physical Review Letters, 2018, 120, 086402.	7.8	50
18	Multiband One-Dimensional Electronic Structure and Spectroscopic Signature of Tomonaga-Luttinger Liquid Behavior in $\text{K}_2\text{Fe}_4\text{O}_{10}$. Physical Review Letters, 2017, 118, 097002.	7.8	48

#	ARTICLE	IF	CITATIONS
19	Band hybridization at the semimetal-semiconductor transition of TaAs and TaTe_2 . Physical Review B, 2018, 98, .	8.2	18
20	Orbital and k -selective Hybridization of Se $4p$ and Ti $3d$. Physical Review B, 2018, 98, .	7.8	46
21	X-ray magnetic spectroscopy of MBE-grown Mn-doped Bi_2Se_3 thin films. AIP Advances, 2014, 4, .	1.3	38
22	Scaling of the superconducting gap with orbital character in FeSe. Physical Review B, 2018, 98, .	3.2	38
23	Crossover from lattice to plasmonic polarons of a spin-polarised electron gas in ferromagnetic EuO. Nature Communications, 2018, 9, 2305.	12.8	31
24	Probing the reconstructed Fermi surface of antiferromagnetic BaFe_2As_2 in one domain. Npj Quantum Materials, 2019, 4, .	5.2	26
25	On the origin of the anomalous peak in the resistivity of TiSe_2 . Physical Review B, 2019, 99, .	3.2	26
26	Electronically driven spin-reorientation transition of the correlated polar metal $\text{Ca}_3\text{Ru}_2\text{O}_7$. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15524-15529.	7.1	25
27	Proximity-induced ferromagnetism and chemical reactivity in few-layer VSe_2 heterostructures. Physical Review B, 2020, 101, .	3.2	25
28	Strongly enhanced temperature dependence of the chemical potential in FeSe. Physical Review B, 2017, 95, .	3.2	24
29	Probing spin correlations using angle-resolved photoemission in a coupled metallic/Mott insulator system. Science Advances, 2020, 6, eaaz0611.	10.3	24
30	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
31	Direct observation of the energy gain underpinning ferromagnetic superexchange in the electronic structure of CrGeTe_3 . Physical Review B, 2020, 101, .	3.2	23
32	Revealing the single electron pocket of FeSe in a single orthorhombic domain. Physical Review B, 2020, 101, .	3.2	22
33	Field-induced magnetic transitions in TaAs .		

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37	Phonology and electron-phonon coupling in the H_2 and H_3 polytypes of Nb	3.2	13
38	Bulk and surface electronic states in the doped semimetallic $HfTe_2$ Physical Review B, 2020, 101, .	4.4	10
39	Emergence of Dirac-like bands in the monolayer limit of epitaxial Ge films on Au(111). 2D Materials, 2017, 4, 031005.	2.9	10
40	Electronic structure and superconductivity of the non-centrosymmetric Sn_4As_3 . New Journal of Physics, 2020, 22, 063049.	4.4	9
41	Strong-coupling charge density wave in monolayer $TiSe_2$. 2D Materials, 2021, 8, 015004.	0.4	6
42	Applications for ultimate spatial resolution in LASER based $\hat{1}/4$ - ARPES: A FeSe case study. AIP Conference Proceedings, 2019, , .	12.8	6
43	Tomographic mapping of the hidden dimension in quasi-particle interference. Nature Communications, 2021, 12, 6739.	3.2	5
44	Fermi surface of $IrTe_2$ in the valence-bond state as determined by quantum oscillations. Physical Review B, 2015, 91, .	2.1	4
45	FeSe and the Missing Electron Pocket Problem. Frontiers in Physics, 2022, 10, .		