

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

45
g-index

45
all docs

45
docs citations

45
times ranked

3640
citing authors

#	ARTICLE	IF	CITATIONS
1	FeSe and the Missing Electron Pocket Problem. <i>Frontiers in Physics</i> , 2022, 10, .	2.1	4
2	Fermiology and electron-phonon coupling in the k and R polytypes of NbTe_2 . <i>Physical Review B</i> , 2020, 101, .	3.2	13
3	Strong-coupling charge density wave in monolayer TiSe_2 . <i>2D Materials</i> , 2021, 8, 015004.	4.4	9
4	Tomographic mapping of the hidden dimension in quasi-particle interference. <i>Nature Communications</i> , 2021, 12, 6739.	12.8	6
5	Interaction effects and superconductivity signatures in twisted double-bilayer WSe_2 . <i>Nanoscale Horizons</i> , 2020, 5, 1309-1316.	8.0	68
6	Direct observation of the energy gain underpinning ferromagnetic superexchange in the electronic structure of CrGeTe_3 . <i>Physical Review B</i> , 2020, 101, .	3.2	23
7	Electronically driven spin-reorientation transition of the correlated polar metal CaRu_2O_7 . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15524-15529.	7.1	25
8	Bulk and surface electronic states in the doped semimetallic HfTe_2 . <i>Physical Review B</i> , 2020, 101, .	3.2	11
9	Revealing the single electron pocket of FeSe in a single orthorhombic domain. <i>Physical Review B</i> , 2020, 101, .	3.2	22
10	Probing spin correlations using angle-resolved photoemission in a coupled metallic/Mott insulator system. <i>Science Advances</i> , 2020, 6, eaaz0611.	10.3	24
11	Proximity-induced ferromagnetism and chemical reactivity in few-layer VSe_2 heterostructures. <i>Physical Review B</i> , 2020, 101, .	3.2	25
12	Electronic structure and superconductivity of the non-centrosymmetric Sn_4As_3 . <i>New Journal of Physics</i> , 2020, 22, 063049.	2.9	10
13	Band hybridization at the semimetal-semiconductor transition of TaTe_2 enabled by mirror-symmetry breaking. <i>Physical Review Research</i> , 2020, 2, .	3.2	18
14	Probing the reconstructed Fermi surface of antiferromagnetic BaFe_2As_2 in one domain. <i>Npj Quantum Materials</i> , 2019, 4, .	5.2	26
15	On the origin of the anomalous peak in the resistivity of TiSe_2 . <i>Orbital and k-selective hybridization of Se</i>	3.2	25
16	p and d - Selective Hybridization of Se and Ti. <i>Nature</i> , 2019, 566, 518-522.	7.8	46
17	A weak topological insulator state in quasi-one-dimensional bismuth iodide. <i>Nature</i> , 2019, 566, 518-522.	27.8	119
18	Applications for ultimate spatial resolution in LASER based $\hat{1}/4$ - ARPES: A FeSe case study. <i>AIP Conference Proceedings</i> , 2019, .	0.4	6

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19	$\langle \mathbf{k} \rangle$ Selective Scattering within Quasiparticle Interference Measurements of FeSe. Physical Review Letters, 2019, 123, 216404.	7.8	13
20	Weyl-like points from band inversions of spin-polarised surface states in NbGeSb. Nature Communications, 2019, 10, 5485.	12.8	14
21	Evolution of the low-temperature Fermi surface of superconducting FeSe $_{1-x}$ S $_x$ across a nematic phase transition. Npj Quantum Materials, 2019, 4, .	5.2	62
22	Experimental Determination of the Topological Phase Diagram in Cerium Monopnictides. Physical Review Letters, 2018, 120, 086402.	7.8	50
23	Three-dimensional electronic structure of the nematic and antiferromagnetic phases of NaFeAs from detwinned angle-resolved photoemission spectroscopy. Physical Review B, 2018, 97, .	3.2	15
24	The Key Ingredients of the Electronic Structure of FeSe. Annual Review of Condensed Matter Physics, 2018, 9, 125-146.	14.5	146
25	Scaling of the superconducting gap with orbital character in FeSe. Physical Review B, 2018, 98, .	3.2	38
26	Crossover from lattice to plasmonic polarons of a spin-polarised electron gas in ferromagnetic EuO. Nature Communications, 2018, 9, 2305.	12.8	31
27	Electronic Structure and Enhanced Charge-Density Wave Order of Monolayer VSe $_2$. Nano Letters, 2018, 18, 4493-4499.	9.1	200
28	Formation of Hubbard-like bands as a fingerprint of strong electron-electron interactions in FeSe. Physical Review B, 2017, 95, .	3.2	59
29	Multiband One-Dimensional Electronic Structure and Spectroscopic Signature of Tomonaga-Luttinger Liquid Behavior in $\langle \mathbf{k} \rangle$ Physical Review Letters, 2017, 118, 097002.	7.8	48
30	Electronic anisotropies revealed by detwinned angle-resolved photo-emission spectroscopy measurements of FeSe. New Journal of Physics, 2017, 19, 103021.	2.9	65
31	Suppression of electronic correlations by chemical pressure from FeSe to FeS. Physical Review B, 2017, 96, .	3.2	68
32	Emergence of Dirac-like bands in the monolayer limit of epitaxial Ge films on Au(111). 2D Materials, 2017, 4, 031005.	4.4	10
33	Strongly enhanced temperature dependence of the chemical potential in FeSe. Physical Review B, 2017, 95, .	3.2	24
34	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
35	Evidence for unidirectional nematic bond ordering in FeSe. Physical Review B, 2016, 94, .	3.2	94
36	Fermi surface of FeTe $_2$ in the valence-bond state as determined by quantum oscillations. Physical Review B, 2015, 91, .	3.2	5

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37	Suppression of orbital ordering by chemical pressure in FeSe_1S_x . Physical Review B, 2015, 92, .		98
38	Dichotomy between the Hole and Electron Behavior in Multiband Superconductor FeSe Probed by Ultrahigh Magnetic Fields. Physical Review Letters, 2015, 115, 027006. Linear Magnetoresistance Caused by Mobility Fluctuations in FeSe_1S_x	7.8	111
39	n -Doped Cd_3Bi Physical Review Letters, 2015, 114, 117201.	7.8	306
40	Emergence of the nematic electronic state in FeSe. Physical Review B, 2015, 91, .	3.2	302
41	X-ray magnetic spectroscopy of MBE-grown Mn-doped Bi_2Se_3 thin films. AIP Advances, 2014, 4, .	1.3	38
42	Field-induced magnetic transitions in FeSe_1S_x		