

Mark P M Dean

List of Publications by Year in descending order

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85
papers

2,729
citations

159585
30
h-index

189892
50
g-index

85
all docs

85
docs citations

85
times ranked

3474
citing authors

#	ARTICLE	IF	CITATIONS
19	<p>Comparison of Charge Modulations in La_{1.875}Ba_{0.125}CuO₄ Studied using Resonant Inelastic X-ray Scattering. Physical Review Letters, 2013, 111, 057202.</p> <p>Incommensurate Phonon Anomaly and the Nature of Charge Density Waves in Cuprates. Physical Review X, 2018, 8, .</p>	7.8	41
20	<p>Superconductivity in graphite intercalation compounds. Physica C: Superconductivity and Its Applications, 2015, 514, 50-58.</p>	1.2	40
21	<p>First-Order Melting of a Weak Spin-Orbit Mott Insulator into a Correlated Metal. Physical Review Letters, 2015, 114, 257203.</p>	7.8	40
22	<p>Formation of Incommensurate Charge Density Waves in Cuprates. Physical Review X, 2019, 9, .</p>	8.9	34
23	<p>Remarkable Stability of Charge Density Wave Order in La_{1.875}Ba_{0.125}CuO₄. Physical Review Letters, 2016, 117, 167001.</p>	7.8	33
24	<p>Doping dependence of the magnetic excitations in La_{1.875}Ba_{0.125}CuO₄. Physical Review B, 2017, 95, .</p>	3.2	32
25	<p>Strongly Correlated Charge Density Wave in La_{1.875}Ba_{0.125}CuO₄. Physical Review Letters, 2020, 124, 207005.</p>	7.8	33
26	<p>Magnetic excitations in stripe-ordered La_{1.875}Ba_{0.125}CuO₄ studied using resonant inelastic x-ray scattering. Physical Review B, 2013, 88, .</p>	3.2	32
27	<p>Doping Dependence of Collective Spin and Orbital Excitations in the Spin-1 Quantum Antiferromagnet La_{1.875}Ba_{0.125}CuO₄. Physical Review Letters, 2017, 118, 156402.</p>	7.8	31
28	<p>Doping evolution of the charge excitations and electron correlations in electron-doped superconducting La_{2-x}Ce_xCuO₄. Npj Quantum Materials, 2020, 5, .</p>	5.2	31
29	<p>Oscillatory Noncollinear Magnetism Induced by Interfacial Charge Transfer in Superlattices Composed of Metallic Oxides. Physical Review X, 2016, 6, .</p>	8.9	30
30	<p>Charge density wave memory in a cuprate superconductor. Nature Communications, 2019, 10, 1435.</p>	12.8	30
31	<p>Itinerant effects and enhanced magnetic interactions in Bi-based multilayer cuprates. Physical Review B, 2014, 90, .</p>	3.2	29
32	<p>Orbital Engineering in Nickelate Heterostructures Driven by Anisotropic Oxygen Hybridization rather than Orbital Energy Levels. Physical Review Letters, 2016, 117, 147401.</p>	7.8	27
33	<p>Anisotropic softening of magnetic excitations in lightly electron-doped Sr₂IrO₄. Physical Review B, 2016, 93, .</p>	3.2	26
34	<p>Magnetism in iridate heterostructures leveraged by structural distortions. Scientific Reports, 2019, 9, 4263.</p>	3.3	26

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37	Ferromagnetic and ferroelectric quantum phase transitions. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 469-475.	1.5	22
38	Decoupling Carrier Concentration and Electron-Phonon Coupling in Oxide Heterostructures Observed with Resonant Inelastic X-Ray Scattering. <i>Physical Review Letters</i> , 2018, 121, 236802.	7.8	22
39	EDRIXS: An open source toolkit for simulating spectra of resonant inelastic x-ray scattering. <i>Computer Physics Communications</i> , 2019, 243, 151-165.	7.5	21
40	Novel spin-orbit coupling driven emergent states in iridate-based heterostructures. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 128, 39-53.	4.0	21
41	Crystallization on heating and complex phase behavior of β -cyclodextrin solutions. <i>Journal of Chemical Physics</i> , 2006, 125, 154504.	3.0	20
42	Ultrafast dynamics of spin and orbital correlations in quantum materials: an energy- and momentum-resolved perspective. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20170480.	3.4	20
43	Giant phonon anomalies in the proximate Kitaev quantum spin liquid β - RuCl_3 . <i>Nature Communications</i> , 2021, 12, 3513.	12.8	20
44	Laser-induced transient magnons in $\text{Sr}_3\text{Ir}_2\text{O}_7$ throughout the Brillouin zone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	19
45	Static charge-density-wave order in the superconducting state of $\text{La}_{1-x}\text{Ce}_x\text{FeAs}_2$. <i>Physical Review B</i> , 2017, 95, .	3.2	16
46	Universal scaling of the electronic coherence in iron-based superconductors. <i>Physical Review B</i> , 2017, 95, .	3.2	16
47	Direct Detection of Dimer Orbitals in BaFe_2As_2 . <i>Physical Review Letters</i> , 2019, 122, 106401.	3.2	16
48	Neutron scattering study of the high-energy graphitic phonons in superconducting CaC_6 . <i>Physical Review B</i> , 2010, 82, .	3.2	14
49	Phonons in nonsuperconducting BaC_6 and superconducting CaC_6 using inelastic x-ray scattering. <i>Physical Review B</i> , 2011, 84, .	3.2	14
50	Strong Orbital Polarization in a Cobaltate-Titanate Oxide Heterostructure. <i>Physical Review Letters</i> , 2019, 123, 117201.	7.8	14
51	Imaging antiferromagnetic antiphase domain boundaries using magnetic Bragg diffraction phase contrast. <i>Nature Communications</i> , 2018, 9, 5013.	12.8	13
52	Anomalous magnetoresistance due to longitudinal spin fluctuations in a $1/2$ Mott semiconductor. <i>Nature Communications</i> , 2019, 10, 5301.	12.8	12
53	Soft X-Ray Spectroscopy of Low-Valence Nickelates. <i>Frontiers in Physics</i> , 2021, 9, .	2.1	12
54	Probing single magnon excitations in Sr_2IrO_4 using O K -edge resonant inelastic x-ray scattering. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 202202.	1.8	11

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55	Role of Oxygen States in the Low Valence Nickelate $\text{La}_{1-x}\text{Ca}_x\text{NiO}_2$. Physical Review X, 2022, 12, .	3.2	10
56	On the possibility to detect multipolar order in URu_2Si_2 by the electric quadrupolar transition of resonant elastic x-ray scattering. Physical Review B, 2017, 96, .	3.2	10
57	Domain Texture of the Orthorhombic Phase of $\text{La}_{2-x}\text{Ba}_x\text{CuO}_4$. Journal of Superconductivity and Novel Magnetism, 2020, 33, 99-106.	1.8	10
58	Strain-Modulated Slater-Mott Crossover of Pseudospin-Half Square-Lattice in $(\text{SrIrO}_3)_1/(\text{SrTiO}_3)_1$ Superlattices. Physical Review Letters, 2020, 124, 177601.	7.8	10
59	Observation of a chiral wave function in the twofold-degenerate quadruple Weyl system BaPtGe . Physical Review B, 2021, 103, .	3.2	10
60	Antiferromagnetic excitonic insulator state in $\text{Sr}_3\text{Ir}_2\text{O}_7$. Nature Communications, 2022, 13, 913. Magnetically polarized Ir dopant atoms in superconducting $\text{Ba}(\text{Fe}_{1-x}\text{Ir}_x)\text{Ti}_2\text{As}_2$. Physical Review B, 2022, 105, 020407.	12.8	10
61	Emergent c -axis magnetic helix in manganite-nickelate superlattices. Physical Review B, 2018, 98, .	3.2	9
62	Depth-Resolved Modulation of Metal-Oxygen Hybridization and Orbital Polarization across Correlated Oxide Interfaces. Advanced Materials, 2019, 31, e1902364.	21.0	9
63	Charge Condensation and Lattice Coupling Drives Stripe Formation in Nickelates. Physical Review Letters, 2021, 126, 177601.	7.8	9
64	Superconductivity from Charge Order in Cuprates. Journal of the Physical Society of Japan, 2021, 90, 111002.	1.6	9
65	Giant spin gap and magnon localization in the disordered Heisenberg antiferromagnet $\text{Sr}_2\text{Ir}_{1-x}\text{Ru}_x\text{O}_4$. Physical Review B, 2017, 95, . Spin polarization of Ru in superconducting $\text{Ba}(\text{Fe}_{1-x}\text{Ir}_x)\text{Ti}_2\text{As}_2$. Physical Review B, 2022, 105, 020407.	3.2	8
66	Resonant inelastic x-ray scattering study of spin-wave excitations in the cuprate parent compound La_2CuO_4 . Physical Review B, 2017, 95, .	3.2	7
67	Inverted orbital polarization in strained correlated oxide films. Physical Review B, 2018, 98, .	3.2	7
68	Momentum-resolved lattice dynamics of parent and electron-doped $\text{Sr}_{1-x}\text{La}_x\text{NiO}_2$. Physical Review B, 2019, 100, . Nature orthorhombic domains in the prototypical high-temperature superconductor $\text{La}_{1.875}\text{Ba}_{0.125}\text{CuO}_4$. Physical Review B, 2020, 101, .	3.2	7
69	Photoinduced anisotropic lattice dynamic response and domain formation in thermoelectric SnSe . Npj Quantum Materials, 2021, 6, .	5.2	6

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73	Probing Electron-Phonon Interactions Away from the Fermi Level with Resonant Inelastic X-Ray Scattering. Physical Review X, 2021, 11, .	8.9	6
74	Control of dopant crystallinity in electrochemically treated cuprate thin films. Physical Review Materials, 2019, 3, .	2.4	5
75	Novel metallic states at low temperatures. Low Temperature Physics, 2011, 37, 2-7.	0.6	4
76	Nonthermal breaking of magnetic order via photogenerated spin defects in the spin-orbit coupled insulator SrO_7 . Physical Review B, 2022, 105, .	8.9	0
77	Site-specific electronic and magnetic excitations of the skyrmion material Cu_2OSeO_3 . Communications Physics, 2022, 5, .	5.3	4
78	Real Space Imaging of Spin Stripe Domain Fluctuations in a Complex Oxide. Physical Review Letters, 2021, 127, 275301.	7.8	3
79	Epitaxial stabilization of $\text{Sr}_3\text{Ir}_2\text{O}_7$ thin films. Applied Physics Letters, 2019, 114, .	3.3	2
80	Angle-Resolved Transport Measurements Reveal Electronic Nematicity in Cuprate Superconductors. Journal of Superconductivity and Novel Magnetism, 2020, 33, 87-92.	1.8	2
81	Real-space observation of fluctuating antiferromagnetic domains. Science Advances, 2022, 8, .	10.3	2
82	Epitaxial growth and antiferromagnetism of Sn-substituted perovskite iridate $\text{SrIr}_{0.8}\text{Sn}_{0.2}\text{O}_3$. Physical Review Materials, 2019, 3, .	2.4	1
83	Single-Laser-Pulse-Driven Thermal Limit of the Quasi-Two-Dimensional Magnetic Ordering in Sr_2VO_4 . Physical Review X, 2021, 11, .	8.9	0
84	Waves divide the Fermi sea. Nature Physics, 0, , .	16.7	0
85	Bulk charge density wave and electron-phonon coupling in superconducting copper oxychlorides. Physical Review Research, 2022, 4, .	3.6	0