

Philip J Ryan

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,202
citations

759233

12
h-index

713466

21
g-index

21
all docs

21
docs citations

21
times ranked

2076
citing authors

#	ARTICLE	IF	CITATIONS
1	A strong ferroelectric ferromagnet created by means of spin-lattice coupling. Nature, 2010, 466, 954-958.	27.8	668
2	A strong ferroelectric ferromagnet created by means of spin-lattice coupling. Nature, 2011, 476, 114-114.	27.8	183
3	Emergent Superstructural Dynamic Order due to Competing Antiferroelectric and Antiferrodistortive Instabilities in Bulk EuTiO_3 . Physical Review Letters, 2013, 110, 027201.	7.8	57
4	Giant magnetic response of a two-dimensional antiferromagnet. Nature Physics, 2018, 14, 806-810.	16.7	44
5	Suppression of superconductivity by anisotropic strain near a nematic quantum critical point. Nature Physics, 2020, 16, 1189-1193.	16.7	39
6	Structural and electronic origin of the magnetic structures in hexagonal LuFeO_3 . Physical Review B, 2014, 90, .	3.2	38
7	Engineering SrSnO_3 Phases and Electron Mobility at Room Temperature Using Epitaxial Strain. ACS Applied Materials & Interfaces, 2018, 10, 43802-43808.	8.0	37
8	On the structural origin of the single-ion magnetic anisotropy in LuFeO_3 . Journal of Physics Condensed Matter, 2016, 28, 156001.	1.8	20
9	Control of Epitaxial BaFe_2As_2 Atomic Configurations with Substrate Surface Terminations. Nano Letters, 2018, 18, 6347-6352.	9.1	16
10	The transport-structural correspondence across the nematic phase transition probed by elasto X-ray diffraction. Nature Materials, 2021, 20, 1519-1524.	27.5	16
11	Effects of biaxial strain on the improper multiferroicity in LuFeO_3 films studied using the restrained thermal expansion method. Physical Review B, 2017, 95, .	3.2	14
12	Superconductivity in undoped BaFe_2As_2 by tetrahedral geometry design. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21170-21174.	7.1	13
13	Anomalous magnetoresistance due to longitudinal spin fluctuations in a $J_{eff} = 1/2$ Mott semiconductor. Nature Communications, 2019, 10, 5301.	12.8	12
14	Comprehensive Electrical Control of Metamagnetic Transition of a Quasi-2D Antiferromagnet by In Situ Anisotropic Strain. Advanced Materials, 2020, 32, e2002451.	21.0	10
15	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
16	Self-Assembled Periodic Nanostructures Using Martensitic Phase Transformations. Nano Letters, 2021, 21, 1246-1252.	9.1	9
17	Template Engineering of Metal-to-Insulator Transitions in Epitaxial Bilayer Nickelate Thin Films. ACS Applied Materials & Interfaces, 2021, 13, 54466-54475.	8.0	5
18	Direct Evidence of the Competing Nature between Electronic and Lattice Breathing Order in Rare-Earth Nickelates. Physical Review Letters, 2020, 124, 127601.	7.8	4

#	ARTICLE	IF	CITATIONS
19	Controllable Emergent Spatial Spin Modulation in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Sr} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{In Situ} \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Shear Strain}$. <i>Physical Review Letters</i> , 2022, 129, .	7.8	4
20	Local Atomic Configuration Control of Superconductivity in the Undoped Pnictide Parent Compound $\text{BaFe}_{2}\text{As}_{2}$. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1511-1517.	4.3	2
21	Epitaxial growth and antiferromagnetism of Sn-substituted perovskite iridate $\text{SrIr}_{0.8}\text{Sn}_{0.2}\text{O}_3$. <i>Physical Review Materials</i> , 2019, 3, .	2.4	1