Berit Goodge

List of Publications by Year
in descending order

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44 papers	1,436 citations	567281 15 h-index	315739 38 g-index
46 all docs	46 docs citations	46 times ranked	1243 citing authors

#	Article	IF	Citations
1	Superconductivity in a quintuple-layer square-planar nickelate. Nature Materials, 2022, 21, 160-164.	27.5	117
2	Liberating a hidden antiferroelectric phase with interfacial electrostatic engineering. Science Advances, 2022, 8, eabg5860.	10.3	18
3	Interfacial charge transfer and persistent metallicity of ultrathin SrIrO ₃ /SrRuO ₃ heterostructures. Science Advances, 2022, 8, eabj0481.	10.3	15
4	Disentangling Coexisting Structural Order Through Phase Lock-In Analysis of Atomic-Resolution STEM Data. Microscopy and Microanalysis, 2022, 28, 404-411.	0.4	9
5	Disentangling types of lattice disorder impacting superconductivity in Sr2RuO4 by quantitative local probes. APL Materials, 2022, 10, .	5.1	4
6	Synthesis and electronic properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Nd</mml:mi><mml:mrow><mml:mi>n</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>3</mml:mn><mml:mi>n</mml:mi><mml:mo>+</mml:mo><mml:mn>1</mml:mn> Ruddlesden-Popper nickelate thin films. Physical Review Materials, 2022, 6, .	2.4	7
7	Doping evolution of the Mottâ€“Hubbard landscape in infinite-layer nickelates. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	101
8	Isotropic Pauli-limited superconductivity in the infinite-layer nickelate Nd0.775Sr0.225NiO2. Nature Physics, 2021, 17, 473-477.	16.7	50
9	Strain-stabilized superconductivity. Nature Communications, 2021, 12, 59.	12.8	43
10	Improved control of atomic layering in perovskite-related homologous series. APL Materials, 2021, 9, .	5.1	14
11	a-axis YBa2Cu3O7â^'x/PrBa2Cu3O7â^'x/YBa2Cu3O7â^'x trilayers with subnanometer rms roughness. APL Materials, 2021, 9, .	5.1	6
12	Unit-cell-thick domain in free-standing quasi-two-dimensional ferroelectric material. Physical Review Materials, 2021, 5, .	2.4	3
13	Quantum oscillations and quasiparticle properties of thin film <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Sr</mml:mi></mml:mrow><mml:mn>2</mml:mn> Physical Review B, 2021, 104, .	3.2	4
14	Tracking motion of topological defects in a stripe charge-ordered phase with continuously variable temperature cryo-STEM. Microscopy and Microanalysis, 2021, 27, 924-926.	0.4	0
15	Tracking quantum phase transitions with continuously variable temperature cryo-STEM. Microscopy and Microanalysis, 2021, 27, 960-961.	0.4	1
16	Few-second EELS mapping with atomic-resolution. Microscopy and Microanalysis, 2021, 27, 2704-2706.	0.4	0
17	Atomic-resolution STEM-EELS to probe and stabilize superconductivity in thin films. Microscopy and Microanalysis, 2021, 27, 346-347.	0.4	0
18	Nickelate Superconductivity without Rareâ€Earth Magnetism: (La,Sr)NiO₂. Advanced Materials, 2021, 33, e2104083.	21.0	139

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19	Strain relaxation induced transverse resistivity anomalies in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Sr</mml:mi><mml:mi>Ru</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> thin films. Physical Review B, 2020, 102, .	3.2	15
20	Defect accommodation in off-stoichiometric (SrTiO3)nSrO Ruddlesdenâ€“Popper superlattices studied with positron annihilation spectroscopy. Applied Physics Letters, 2020, 117, .	3.3	10
21	Stable Continuously Variable Temperature Cryo-STEM to Understand the Structurally Driven Phase Transition in the 2D Layered Magnet Nb₃Br₈. Microscopy and Microanalysis, 2020, 26, 1090-1092.	0.4	1
22	Sub-Ã…ngstrom EDX Mapping Enabled by a High-brightness Cold Field Emission Source. Microscopy and Microanalysis, 2020, 26, 1508-1511.	0.4	3
23	A Superconducting Praseodymium Nickelate with Infinite Layer Structure. Nano Letters, 2020, 20, 5735-5740.	9.1	172
24	Atomic-Resolution Cryo-STEM Across Continuously Variable Temperatures. Microscopy and Microanalysis, 2020, 26, 439-446.	0.4	23
25	Chemical gradients in human enamel crystallites. Nature, 2020, 583, 66-71.	27.8	112
26	Superconducting Dome in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Nd</mml:mi></mml:mrow><mml:mrow><mml:mi>1</mml:mi></mml:mrow></mml:msub><mml:mo>-</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:math><mml:mi>Sr</mml:mi><mml:mi>x</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Infinite Layer Films. Physical Review Letters, 2020, 125, 027001.	7.8	202
27	Aspects of the synthesis of thin film superconducting infinite-layer nickelates. APL Materials, 2020, 8, .	5.1	107
28	Harnessing Local Sample Variations to Generate Self-Consistent EELS References for Stoichiometry Quantification. Microscopy and Microanalysis, 2019, 25, 580-581.	0.4	0
29	Atomic-resolution spectroscopy of quantum materials at cryogenic temperatures. Microscopy and Microanalysis, 2019, 25, 582-583.	0.4	0
30	Unraveling the Relationship Between Layer Stacking and Magnetic Order in Nb3X8 Systems via Controlled-Temperature Cryo-STEM. Microscopy and Microanalysis, 2019, 25, 1852-1853.	0.4	0
31	Atomic Resolution CryoSTEM Across Continuously Variable Temperatures. Microscopy and Microanalysis, 2019, 25, 930-931.	0.4	4
32	Atomic-Scale Characterization Reveals Core-Shell Structure of Enamel Crystallites. Microscopy and Microanalysis, 2019, 25, 1722-1723.	0.4	4
33	Freestanding crystalline <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>YB</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">u</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>7</mml:mn><mml:mo>â”</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> Epitaxial <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>SrTi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> film on silicon with narrow rocking curve despite huge defect density. Physical Review Materials, 2019, 3, .	2.4	38
34		2.4	12
35	Synthesis science of SrRuO3 and CaRuO3 epitaxial films with high residual resistivity ratios. APL Materials, 2018, 6, .	5.1	61
36	Direct Electron Detection for Atomic-Resolution EELS Mapping at Cryogenic Temperature. Microscopy and Microanalysis, 2018, 24, 454-455.	0.4	6

#	Article	IF	Citations
37	Atomic Resolution STEM Imaging of Human Enamel Crystallites and Characterization of its Localized Impurities. Microscopy and Microanalysis, 2018, 24, 1266-1267.	0.4	3
38	Demystifying the growth of superconducting Sr2RuO4 thin films. APL Materials, 2018, 6, .	5.1	33
39	Direct Electron Detection for Atomic Resolution in situ EELS. Microscopy and Microanalysis, 2018, 24, 1844-1845.	0.4	10
40	Probing the Atomic Lattice Response of Quantum Materials Across Phase Transitions. Microscopy and Microanalysis, 2018, 24, 80-81.	0.4	0
41	Influence of substrates and rutile seed layers on the assembly of hydrothermally grown rutile TiO 2 nanorod arrays. Journal of Crystal Growth, 2018, 494, 26-35.	1.5	11
42	Image registration of low signal-to-noise cryo-STEM data. Ultramicroscopy, 2018, 191, 56-65.	1.9	59
43	Enhanced Sensitivity of Atomic-Resolution Spectroscopic Imaging by Direct Electron Detection. Microscopy and Microanalysis, 2017, 23, 366-367.	0.4	14
44	Aberration-Corrected STEM/EELS at Cryogenic Temperatures. Microscopy and Microanalysis, 2017, 23, 428-429.	0.4	3