Berit Goodge

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

43 papers	579 citations	13 h-index	23 g-index
46 ext. papers	1,011 ext. citations	5.9 avg, IF	4.34 L-index

#	Paper	IF	Citations
43	Superconducting Dome in Nd_{1-x}Sr_{x}NiO_{2} Infinite Layer Films. *Physical Review Letters*, **2020**, 125, 027001	7.4	87
42	A Superconducting Praseodymium Nickelate with Infinite Layer Structure. *Nano Letters*, **2020**, 20, 5735-5740	11.5	66
41	Aspects of the synthesis of thin film superconducting infinite-layer nickelates. *APL Materials*, **2020**, 8, 041107	5.7	51
40	Chemical gradients in human enamel crystallites. *Nature*, **2020**, 583, 66-71	50.4	50
39	Synthesis science of SrRuO3 and CaRuO3 epitaxial films with high residual resistivity ratios. *APL Materials*, **2018**, 6, 046101	5.7	41
38	Image registration of low signal-to-noise cryo-STEM data. *Ultramicroscopy*, **2018**, 191, 56-65	3.1	39
37	Doping evolution of the Mott-Hubbard landscape in infinite-layer nickelates. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	33
36	Nickelate Superconductivity without Rare-Earth Magnetism: (La,Sr)NiO. *Advanced Materials*, **2021**, 33, e2104083	24	29
35	Demystifying the growth of superconducting Sr2RuO4 thin films. *APL Materials*, **2018**, 6, 101108	5.7	23
34	Isotropic Pauli-limited superconductivity in the infinite-layer nickelate Nd0.775Sr0.225NiO2. *Nature Physics*, **2021**, 17, 473-477	16.2	18
33	Superconductivity in a quintuple-layer square-planar nickelate. *Nature Materials*, **2021**,	27	17
32	Freestanding crystalline YBa2Cu3O7 heterostructure membranes. *Physical Review Materials*, **2019**, 3,	3.2	16
31	Enhanced Sensitivity of Atomic-Resolution Spectroscopic Imaging by Direct Electron Detection. *Microscopy and Microanalysis*, **2017**, 23, 366-367	0.5	14
30	Strain relaxation induced transverse resistivity anomalies in SrRuO3 thin films. *Physical Review B*, **2020**, 102,	3.3	12
29	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	1.6	10
28	Strain-stabilized superconductivity. *Nature Communications*, **2021**, 12, 59	17.4	9
27	Atomic-Resolution Cryo-STEM Across Continuously Variable Temperatures. *Microscopy and Microanalysis*, **2020**, 26, 439-446	0.5	8

26	Epitaxial SrTiO3 film on silicon with narrow rocking curve despite huge defect density. *Physical Review Materials*, **2019**, 3,	3.2	8
25	Direct Electron Detection for Atomic Resolution in situ EELS. *Microscopy and Microanalysis*, **2018**, 24, 1844-1845	0.5	8
24	Atomic Resolution CryoSTEM Across Continuously Variable Temperatures. *Microscopy and Microanalysis*, **2019**, 25, 930-931	0.5	4
23	Interfacial charge transfer and persistent metallicity of ultrathin SrIrO/SrRuO heterostructures.. *Science Advances*, **2022**, 8, eabj0481	14.3	4
22	Defect accommodation in off-stoichiometric (SrTiO3)nSrO RuddlesdenPopper superlattices studied with positron annihilation spectroscopy. *Applied Physics Letters*, **2020**, 117, 062901	3.4	4
21	Improved control of atomic layering in perovskite-related homologous series. *APL Materials*, **2021**, 9, 021118	5.7	4
20	Direct Electron Detection for Atomic-Resolution EELS Mapping at Cryogenic Temperature. *Microscopy and Microanalysis*, **2018**, 24, 454-455	0.5	4
19	Aberration-Corrected STEM/EELS at Cryogenic Temperatures. *Microscopy and Microanalysis*, **2017**, 23, 428-429	0.5	3
18	Liberating a hidden antiferroelectric phase with interfacial electrostatic engineering.. *Science Advances*, **2022**, 8, eabg5860	14.3	3
17	Atomic Resolution STEM Imaging of Human Enamel Crystallites and Characterization of its Localized Impurities. *Microscopy and Microanalysis*, **2018**, 24, 1266-1267	0.5	3
16	Atomic-Scale Characterization Reveals Core-Shell Structure of Enamel Crystallites. *Microscopy and Microanalysis*, **2019**, 25, 1722-1723	0.5	2
15	Sub-Ångstrom EDX Mapping Enabled by a High-brightness Cold Field Emission Source. *Microscopy and Microanalysis*, **2020**, 26, 1508-1511	0.5	2
14	Quantum oscillations and quasiparticle properties of thin film Sr2RuO4. *Physical Review B*, **2021**, 104,	3.3	2
13	a-axis YBa2Cu3O7−x/PrBa2Cu3O7−x/YBa2Cu3O7−x trilayers with subnanometer rms roughness. *APL Materials*, **2021**, 9, 021117	5.7	2
12	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	0.5	1
11	Unit-cell-thick domain in free-standing quasi-two-dimensional ferroelectric material. *Physical Review Materials*, **2021**, 5,	3.2	1
10	Disentangling Coexisting Structural Order Through Phase Lock-In Analysis of Atomic-Resolution STEM Data.. *Microscopy and Microanalysis*, **2022**, 1-8	0.5	0
9	Disentangling types of lattice disorder impacting superconductivity in Sr2RuO4 by quantitative local probes. *APL Materials*, **2022**, 10, 041114	5.7	0

8	Harnessing Local Sample Variations to Generate Self-Consistent EELS References for Stoichiometry Quantification. *Microscopy and Microanalysis*, **2019**, 25, 580-581	0.5
7	Atomic-resolution spectroscopy of quantum materials at cryogenic temperatures. *Microscopy and Microanalysis*, **2019**, 25, 582-583	0.5
6	Unraveling the Relationship Between Layer Stacking and Magnetic Order in Nb3X8 Systems via Controlled-Temperature Cryo-STEM. *Microscopy and Microanalysis*, **2019**, 25, 1852-1853	0.5
5	Tracking motion of topological defects in a stripe charge-ordered phase with continuously variable temperature cryo-STEM. *Microscopy and Microanalysis*, **2021**, 27, 924-926	0.5
4	Tracking quantum phase transitions with continuously variable temperature cryo-STEM. *Microscopy and Microanalysis*, **2021**, 27, 960-961	0.5
3	Few-second EELS mapping with atomic-resolution. *Microscopy and Microanalysis*, **2021**, 27, 2704-2706	0.5
2	Probing the Atomic Lattice Response of Quantum Materials Across Phase Transitions. *Microscopy and Microanalysis*, **2018**, 24, 80-81	0.5
1	Atomic-resolution STEM-EELS to probe and stabilize superconductivity in thin films. *Microscopy and Microanalysis*, **2021**, 27, 346-347	0.5