Melissa Gooch

List of Publications by Year
in descending order

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29	740	687363 13	526287 27
papers	citations	h-index	g-index

29	29	29	1117
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The synthesis and characterization of LiFeAs and NaFeAs. Physica C: Superconductivity and Its Applications, 2009, 469, 326-331.	1.2	120
2	Unusual superconducting state at 49ÂK in electron-doped CaFe ₂ As ₂ at ambient pressure. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15705-15709.	7.1	119
3	Ba_{1â€“x}Na_xTi₂Sb₂O (0.0 â‰¤ x â‰¤ 0.33): A Layered Titanium-Based Pnictide Oxide Superconductor. Journal of the American Chemical Society, 2012, 134, 16520-16523.	13.7	93
4	Pressure shift of the superconducting T _c of LiFeAs. Europhysics Letters, 2009, 85, 27005.	2.0	51
5	Evidence of quantum criticality in the phase diagram of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mtext>K</mml:mtext><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mrow Physical Review B, 2009, 79, .	3.2	46
6	Pressure-induced shift ofTcinKxSr1â^'xFe2As2(x=0.2,0.4,0.7): Analogy to the high-Tccuprate superconductors. Physical Review B, 2008, 78, .	3.2	42
7	Pressure-induced high-temperature superconductivity retained without pressure in FeSe single crystals. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	30
8	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>A</mml:mi></mml:math>Ag<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub><mml:mi>M</mml:mi></mml:mrow></mml:math>[VO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:m	3.2	29
9	Superconductivity in ternary iron pnictides: AFe2As2 (A = alkali metal) and LiFeAs. Physica C: Superconductivity and Its Applications, 2010, 470, S276-S279.	1.2	27
10	Nb2O2F3: A Reduced Niobium (III/IV) Oxyfluoride with a Complex Structural, Magnetic, and Electronic Phase Transition. Journal of the American Chemical Society, 2015, 137, 636-639.	13.7	23
11	Weak coupling BCS-like superconductivity in the pnictide oxide Ba<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Na<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>Ti<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow	3.2	20
12	Narrow Gap Semiconducting Germanium Allotrope from the Oxidation of a Layered Zintl Phase in Ionic Liquids. Journal of the American Chemical Society, 2018, 140, 6785-6788.	13.7	16
13	Tunable structural phase transition and superconductivity in the Weyl semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Mo</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow><mml:mi mathvariant="normal">W</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi mathvariant="normal">Te</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B,	3.2	16
14	Pressure-induced decoupling of rare-earth moments and Mn spins in multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>GdMn</mml:mi><mml:mn>2</mml:mn></mml:m mathvariant="normal">O</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2015, 92, .	3.2	13
15	Magnetocapacitance effect and magnetoelectric coupling in type-II multiferroic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>HoFeWO</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:math>. Physical Review B, 2021, 103, .	3.2	13
16	Metamagnetic transitions and magnetoelectric coupling in acentric and nonpolar <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Pb</mml:mi><mml:mn>2</mml:mn></mml:m mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2019, 99, .	3.2	11
17	High pressure study of the normal and superconducting states of the layered pnictide oxide Ba1â^'xNaxTi2Sb2O withx= 0, 0.10, and 0.15. Superconductor Science and Technology, 2013, 26, 125011.	3.5	10
18	Critical scaling of transport properties in the phase diagram of iron pnictide superconductors KxSr1â^'xFe2As2 and KxBa1â^'xFe2As2. Journal of Applied Physics, 2010, 107, 09E145.	2.5	9

#	Article	IF	Citations
19	Pressure effects on strained FeSe0.5Te0.5 thin films. Journal of Applied Physics, 2012, 111, 112610.	2.5	9
20	The retention at ambient of the high-pressure-induced metastable superconducting phases in antimony single crystals. Materials Today Physics, 2020, 15, 100291.	6.0	9
21	Pressure and magnetic field effects on ferroelastic and antiferromagnetic orderings in honeycomb-lattice <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">M</mml:mi><mml:msub><mml:mi mathvariant="normal">n</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">X</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant	3.2	8
22	Pressure effects on magnetic ground states in cobalt-doped multiferroicMn1â^'xCoxWO4. Physical Review B, 2016, 93, .	3.2	5
23	Pressure Effect on Ferroelectric Properties of GdMn₂O₅and TmMn₂O₅. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	5
24	Interfacial Superconductivity Achieved in Parent AEFe₂As₂ (AE = Ca, Sr, Ba) by a Simple and Realistic Annealing Route. Nano Letters, 2021, 21, 2191-2198.	9.1	5
25	Low-temperature microstructural studies on superconducting CaFe2As2. Scientific Reports, 2019, 9, 6393.	3.3	4
26	Weak exchange striction between the 4f and 3d ions in the multiferroic GdMn2O5. Physical Review B, 2019, 99, .	3.2	3
27	Possible interface superconductivity in rare-earth-doped CaFe$$_{2}$$As$$_{2}$$ and undoped CaFe$$_{2}$$As$$_{2}$$. Quantum Studies: Mathematics and Foundations, 2018, 5, 103-109.	0.9	2
28	Interface-Induced and Interface-Enhanced Superconductivity. Journal of Superconductivity and Novel Magnetism, 2019, 32, 7-15.	1.8	2
29	Experimental Setup of Ac Thermoelectric Power Measurements in a Cryocooler PPMS System and Its Implementation to Superconductors, Topological Insulator, and Thermoelectric Materials. Instruments and Experimental Techniques, 2019, 62, 298-303.	0.5	0