

# Melissa Gooch

## List of Publications by Year in descending order

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29  
papers

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citations

687363

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526287

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docs citations

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times ranked

1117  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetocapacitance effect and magnetoelectric coupling in type-II multiferroic $\text{HoFeWO}_6$ . Physical Review B, 2021, 103, .	3.2	13
2	Interfacial Superconductivity Achieved in Parent $\text{AEFe}_2\text{As}_2$ (AE = Ca, Sr, Ba) by a Simple and Realistic Annealing Route. Nano Letters, 2021, 21, 2191-2198.	9.1	5
3	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
4	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
5	Pressure and magnetic field effects on ferromagnetic and antiferromagnetic orderings in honeycomb-lattice $\text{Mn}_2\text{P}$ . Physical Review B, 2020, 101, .	3.2	8
6	Tunable structural phase transition and superconductivity in the Weyl semimetal $\text{Mo}_x\text{Te}_{1-x}$ . Physical Review B, 2020, 101, .	3.2	16
7	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
8	Metamagnetic transitions and magnetoelectric coupling in acentric and nonpolar $\text{Pb}_2\text{O}$ . Physical Review B, 2019, 99, .	3.2	11
9	Low-temperature microstructural studies on superconducting $\text{CaFe}_2\text{As}_2$ . Scientific Reports, 2019, 9, 6393.	3.3	4
10	Weak exchange striction between the 4f and 3d ions in the multiferroic $\text{GdMn}_2\text{O}_5$ . Physical Review B, 2019, 99, .	3.2	3
11	Interface-Induced and Interface-Enhanced Superconductivity. Journal of Superconductivity and Novel Magnetism, 2019, 32, 7-15.	1.8	2
12	Possible interface superconductivity in rare-earth-doped $\text{CaFe}_2\text{As}_2$ and undoped $\text{CaFe}_2\text{As}_2$ . Quantum Studies: Mathematics and Foundations, 2018, 5, 103-109.	0.9	2
13	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
14	Pressure effects on magnetic ground states in cobalt-doped multiferroic $\text{Mn}_1-x\text{Co}_x\text{WO}_4$ . Physical Review B, 2016, 93, .	3.2	5
15	Pressure Effect on Ferroelectric Properties of $\text{GdMn}_2\text{O}_5$ and $\text{TmMn}_2\text{O}_5$ . IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	5
16	Pressure-induced decoupling of rare-earth moments and Mn spins in multiferroic $\text{GdMn}_2\text{O}_5$ . Physical Review B, 2015, 92, .	3.2	13
17	$\text{Nb}_2\text{O}_2\text{F}_3$ : 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
18	Weak coupling BCS-like superconductivity in the pnictide oxide $\text{Ba}_1-x\text{Na}_x\text{Fe}_2\text{P}_2\text{O}_{10}$ . Physical Review B, 2015, 92, .	3.2	20

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19	High pressure study of the normal and superconducting states of the layered pnictide oxide $\text{Ba}_{1-x}\text{Na}_x\text{Ti}_2\text{Sb}_2\text{O}$ with $x = 0, 0.10, \text{ and } 0.15$ . Superconductor Science and Technology, 2013, 26, 125011.	3.5	10
20	$\text{Ba}_{1-x}\text{Na}_x\text{Ti}_2\text{Sb}_2\text{O}$ (0.0 $\leq x \leq$ 0.33): A Layered Titanium-Based Pnictide Oxide Superconductor. Journal of the American Chemical Society, 2012, 134, 16520-16523.	13.7	93
21	Pressure effects on strained $\text{FeSe}_{0.5}\text{Te}_{0.5}$ thin films. Journal of Applied Physics, 2012, 111, 112610.	2.5	9
22	$\text{Ag}_2\text{M}[\text{VO}]_2$ Unusual superconducting state at 4.9 K in electron-doped $\text{CaFe}_2\text{As}_2$ at ambient pressure. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15705-15709.	3.2	29
23	Unusual superconducting state at 4.9 K in electron-doped $\text{CaFe}_2\text{As}_2$ at ambient pressure. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15705-15709.	7.1	119
24	Superconductivity in ternary iron pnictides: $\text{AFe}_2\text{As}_2$ (A = alkali metal) and $\text{LiFeAs}$ . Physica C: Superconductivity and Its Applications, 2010, 470, S276-S279.	1.2	27
25	Critical scaling of transport properties in the phase diagram of iron pnictide superconductors $\text{K}_x\text{Sr}_{1-x}\text{Fe}_2\text{As}_2$ and $\text{K}_x\text{Ba}_{1-x}\text{Fe}_2\text{As}_2$ . Journal of Applied Physics, 2010, 107, 09E145.	2.5	9
26	Evidence of quantum criticality in the phase diagram of $\text{K}_x\text{Sr}_{1-x}\text{Fe}_2\text{As}_2$ . Physical Review B, 2009, 79, .	3.2	46
27	The synthesis and characterization of $\text{LiFeAs}$ and $\text{NaFeAs}$ . Physica C: Superconductivity and Its Applications, 2009, 469, 326-331.	1.2	120
28	Pressure shift of the superconducting $T_c$ of $\text{LiFeAs}$ . Europhysics Letters, 2009, 85, 27005.	2.0	51
29	Pressure-induced shift of $T_c$ in $\text{K}_x\text{Sr}_{1-x}\text{Fe}_2\text{As}_2$ ( $x=0.2, 0.4, 0.7$ ): Analogy to the high- $T_c$ cuprate superconductors. Physical Review B, 2008, 78, .	3.2	42