

Fabian O Von Rohr

List of Publications by Year in descending order

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docs citations

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1459
citing authors

#	ARTICLE	IF	CITATIONS
1	Break of symmetry at the surface of IrTe ₂ upon phase transition measured by x-ray photoelectron diffraction. Journal of Physics Condensed Matter, 2022, 34, 075001.	1.8	0
2	A Heavy Fermion Zn-Deficient CaBe ₂ Ge ₂ -Type Phase with Rare Ce-Based Ferromagnetism and Large Magnetoresistance. Chemistry of Materials, 2022, 34, 2352-2360.	6.7	2
3	Quasi-1D Electronic Transport in a 2D Magnetic Semiconductor. Advanced Materials, 2022, 34, e2109759.	21.0	40
4	Polytypism and superconductivity in the NbS ₂ system. Dalton Transactions, 2021, 50, 3216-3223.	3.3	20
5	Uniaxial strain-induced phase transition in the 2D topological semimetal IrTe ₂ . Communications Materials, 2021, 2, .	6.9	25
6	Superconductivity with High Upper Critical Field in the Cubic Centrosymmetric Î-Carbidic Nb ₄ Rh ₂ C ₁₄ . ACS Materials Au, 2021, 1, 55-61.	6.0	16
7	Charge carrier dynamics and self-trapping on Sb_2S_3 . Physical Review Materials, 2021, 5, .		
8	Ultrafast dynamics of the surface photovoltage in potassium-doped black phosphorus. Physical Review B, 2021, 104, .	3.2	9
9	Insensitivity of the striped charge orders in $IrTe_2$ to alkali surface doping implies their structural origin. Physical Review Materials, 2021, 5, .		
10	Two-gap to single-gap superconducting transition on a honeycomb lattice in $Ca_2Mn_2P_2$. Physical Review Research, 2021, 3, .		
11	Synthetic control over polymorph formation in the d-band semiconductor system FeS ₂ . Chemical Science, 2021, 12, 13870-13877.	7.4	2
12	Group-9 Transition-Metal Suboxides Adopting the Filled-Ti ₂ Ni Structure: A Class of Superconductors Exhibiting Exceptionally High Upper Critical Fields. Chemistry of Materials, 2021, 33, 8722-8732.	6.7	7
13	Pressure Induced Topological Quantum Phase Transition in Weyl Semimetal Td-MoTe ₂ . Journal of the Physical Society of Japan, 2020, 89, 094707.	1.6	4
14	Short-range magnetic interactions and spin-glass behavior in the quasi-two-dimensional nickelate P_4Ni_3 . Physical Review Materials, 2021, 5, .	3.2	23
15	Examining the surface phase diagram of $IrTe_2$. Physical Review Materials, 2021, 5, .		
16	Anisotropic character of the metal-to-metal transition in P_4Ni_3 . Physical Review Materials, 2021, 5, .	3.2	15
17	Facile One-Step Synthesis of Zn _{1-x} Mn _x SiN ₂ Nitride Semiconductor Solid Solutions via Solid-State Metathesis Reaction. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 228-233.	1.2	6
18	Low-energy excitations in type-II Weyl semimetal $Td-MoTe_2$ evidenced through optical conductivity. Physical Review Materials, 2020, 4, .	2.4	16

#	ARTICLE	IF	CITATIONS
19	Photoexcited charge carrier dynamics in $\text{Sb}_{2-x}\text{Te}_{3-x}$. Physical Review Materials, 2020, 4, .	22.4	11
20	Preparation and characterization of high-entropy alloy $\text{TaNb}_{1-x}\text{Ta}_{x-1}$ superconducting films. Physical Review Research, 2020, 2, .	10.6	18
21	Large resistivity reduction in mixed-valent CsAuBr_3 under pressure. Physical Review B, 2019, 100, .	10.2	17
22	Nodeless superconductivity and its evolution with pressure in the layered dirac semimetal 2M-WS ₂ . Npj Quantum Materials, 2019, 4, .	5.2	20
23	Superconductivity in the $\hat{\Gamma}$ -carbide-type oxides $\text{Zr}_{1-x}\text{Hf}_x\text{O}_{8-x}$. Journal of Alloys and Compounds, 2019, 796, 287-292.	5.5	8
24	Superconducting order parameter of the nodal-line semimetal NaAlSi. APL Materials, 2019, 7, 121103.	5.1	25
25	Unconventional scaling of the superfluid density with the critical temperature in transition metal dichalcogenides. Science Advances, 2019, 5, eaav8465.	10.3	20
26	The $\text{Sb}_{3+2x}\text{WO}_3$ Oxygen Excess Antimony Tungsten Bronze. Chemistry - A European Journal, 2019, 25, 2082-2088.	3.3	6
27	Sb_2Te_3 : A strongly anisotropic surface. Physical Review Materials, 2019, 3, .	2.4	1
28	ScZrNbTaRhPd High-Entropy Alloy Superconductors on a CsCl-Type Lattice. Chemistry of Materials, 2018, 30, 906-914.	6.7	82
29	Crystal structure and anisotropic magnetic properties of $\text{CaCo}_4(\text{TeO}_3)_4\text{Cl}_2$. Journal of Solid State Chemistry, 2018, 263, 141-147.	2.9	5
30	Isoelectronic substitutions and aluminium alloying in the Ta-Nb-Hf-Zr-Ti high-entropy alloy superconductor. Physical Review Materials, 2018, 2, .	2.4	44
31	Origin of the pressure-dependent T_c valley in superconducting simple cubic phosphorus. Physical Review Materials, 2018, 2, .	12.1	7
32	High-Pressure Synthesis and Characterization of $\hat{\Gamma}^2\text{-GeSe}$ A Six-Membered-Ring Semiconductor in an Uncommon Boat Conformation. Journal of the American Chemical Society, 2017, 139, 2771-2777.	13.7	90
33	Growth, Crystal Structure and Magnetic Characterization of Zn-Stabilized CePtIn_4 . Journal of the Physical Society of Japan, 2017, 86, 084710.	1.6	2
34	Robust zero resistance in a superconducting high-entropy alloy at pressures up to 190 GPa. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13144-13147.	7.1	121
35	Electron-hole balance and the anomalous pressure-dependent superconductivity in black phosphorus. Physical Review B, 2017, 96, .	3.2	37
36	Field-induced transition of the magnetic ground state from A-type antiferromagnetic to ferromagnetic order in CsCo_2Se_2 . Journal of Physics Condensed Matter, 2016, 28, 276001.	1.8	6

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37	Effect of electron count and chemical complexity in the Ta-Nb-Hf-Zr-Ti high-entropy alloy superconductor. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E7144-E7150.	7.1	114
38	The crystal structure, electronic, and magnetic properties of NaPd ₃ Ge ₂ . Materials Research Bulletin, 2015, 70, 673-677.	5.2	2
39	Monodisperse Colloidal Gallium Nanoparticles: Synthesis, Low Temperature Crystallization, Surface Plasmon Resonance and Li-Ion Storage. Journal of the American Chemical Society, 2014, 136, 12422-12430.	13.7	133
40	Superconductivity in rubidium-substituted Ba _{1-x} Rb _x Ti ₂ As ₂ . Physical Review B, 2014, 89, 020407.	3.2	26
41	Superconductivity and correlated Fermi liquid behavior in noncentrosymmetric Ca ₃ Ir ₄ Ge ₄ . Physical Review B, 2014, 89, 020408.	3.2	26
42	Conventional superconductivity and charge-density-wave ordering in Ba _{1-x} Na _x Ti ₂ As ₂ . Physical Review B, 2014, 89, 020409.	3.2	26