

# Fabian O Von Rohr

## List of Publications by Year in descending order

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42  
papers

1,037  
citations

471509

17  
h-index

434195

31  
g-index

42  
all docs

42  
docs citations

42  
times ranked

1459  
citing authors

#	ARTICLE	IF	CITATIONS
1	Monodisperse Colloidal Gallium Nanoparticles: Synthesis, Low Temperature Crystallization, Surface Plasmon Resonance and Li-Ion Storage. <i>Journal of the American Chemical Society</i> , 2014, 136, 12422-12430.	13.7	133
2	Robust zero resistance in a superconducting high-entropy alloy at pressures up to 190 GPa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13144-13147.	7.1	121
3	Effect of electron count and chemical complexity in the Ta-Nb-Hf-Zr-Ti high-entropy alloy superconductor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E7144-E7150.	7.1	114
4	High-Pressure Synthesis and Characterization of $\hat{\Gamma}$ -GeSe $\hat{\Gamma}$ A Six-Membered-Ring Semiconductor in an Uncommon Boat Conformation. <i>Journal of the American Chemical Society</i> , 2017, 139, 2771-2777.	13.7	90
5	Sc $\hat{\Gamma}$ -Zr $\hat{\Gamma}$ -Nb $\hat{\Gamma}$ -Rh $\hat{\Gamma}$ -Pd and Sc $\hat{\Gamma}$ -Zr $\hat{\Gamma}$ -Nb $\hat{\Gamma}$ -Ta $\hat{\Gamma}$ -Rh $\hat{\Gamma}$ -Pd High-Entropy Alloy Superconductors on a CsCl-Type Lattice. <i>Chemistry of Materials</i> , 2018, 30, 906-914.	6.7	82
6	Isoelectronic substitutions and aluminium alloying in the Ta-Nb-Hf-Zr-Ti high-entropy alloy superconductor. <i>Physical Review Materials</i> , 2018, 2, .	2.4	44
7	Quasi-1D Electronic Transport in a 2D Magnetic Semiconductor. <i>Advanced Materials</i> , 2022, 34, e2109759.	21.0	40
8	Electron-hole balance and the anomalous pressure-dependent superconductivity in black phosphorus. <i>Physical Review B</i> , 2017, 96, .	3.2	37
9	Superconductivity and charge-density-wave ordering in Ba $\hat{\Gamma}$ -Mn $\hat{\Gamma}$ -M $\hat{\Gamma}$ (M = Nb, Ta) systems. <i>Physical Review B</i> , 2014, 89, .	3.2	26
10	Superconductivity in rhenium-substituted Ba $\hat{\Gamma}$ -Mn $\hat{\Gamma}$ -M $\hat{\Gamma}$ (M = Nb, Ta) systems. <i>Physical Review B</i> , 2014, 89, .	3.2	26
11	Superconductivity and correlated Fermi liquid behavior in noncentrosymmetric Ca <sub>3</sub> Ir <sub>4</sub> Ge <sub>4</sub> . <i>Physical Review B</i> , 2014, 89, .	3.2	26
12	Superconducting order parameter of the nodal-line semimetal NaAlSi. <i>APL Materials</i> , 2019, 7, 121103.	5.1	25
13	Uniaxial strain-induced phase transition in the 2D topological semimetal IrTe <sub>2</sub> . <i>Communications Materials</i> , 2021, 2, .	6.9	25
14	Short-range magnetic interactions and spin-glass behavior in the quasi-two-dimensional nickelate $\text{P}_{1-x}\text{r}_x\text{Ni}_4\text{N}_3\text{i}$ . <i>Physical Review B</i> , 2019, 80, .	3.2	23
15	Nodeless superconductivity and its evolution with pressure in the layered dirac semimetal 2M $\hat{\Gamma}$ -WS <sub>2</sub> . <i>Npj Quantum Materials</i> , 2019, 4, .	5.2	20
16	Unconventional scaling of the superfluid density with the critical temperature in transition metal dichalcogenides. <i>Science Advances</i> , 2019, 5, eaav8465.	10.3	20
17	Polytypism and superconductivity in the NbS <sub>2</sub> system. <i>Dalton Transactions</i> , 2021, 50, 3216-3223.	3.3	20
18	Superconductivity with High Upper Critical Field in the Cubic Centrosymmetric $\hat{\Gamma}$ -Carbide Nb <sub>4</sub> Rh <sub>2</sub> C <sub>16</sub> . <i>ACS Materials Au</i> , 2021, 1, 55-61.	6.0	16

#	ARTICLE	IF	CITATIONS
19	Low-energy excitations in type-II Weyl semimetal $\text{MoTe}_2$ evidenced through optical conductivity. Physical Review Materials, 2020, 4, .	2.4	16
20	Anisotropic character of the metal-to-metal transition in $\text{P}_4\text{N}_3\text{I}$ . Physical Review Materials, 2020, 4, .	3.2	15
21	Preparation and characterization of high-entropy alloy $\text{TaNbTaTaTaTaTaTaTaTa}$ superconducting films. Physical Review Research, 2020, 2, .	3.6	18
22	Photoexcited charge carrier dynamics in $\text{Sb}_2\text{Te}_3$ . Physical Review Materials, 2020, 4, .	2.4	11
23	Charge carrier dynamics and self-trapping on $\text{Sb}_2\text{Te}_3$ . Physical Review Materials, 2021, 5, .	2.4	11
24	Ultrafast dynamics of the surface photovoltage in potassium-doped black phosphorus. Physical Review B, 2021, 104, .	3.2	9
25	Superconductivity in the $\bar{1}$ -carbide-type oxides $\text{Zr}_4\text{Mn}_8\text{O}_{24}$ . Journal of Alloys and Compounds, 2019, 796, 287-292, .	5.5	84
26	Examining the surface phase diagram of $\text{IrTe}_2$ with photoemission. Physical Review B, 2020, 101, .	3.2	15
27	Origin of the pressure-dependent $\text{TC}$ valley in superconducting simple cubic phosphorus. Physical Review Materials, 2018, 2, .	3.1	7
28	Group-9 Transition-Metal Suboxides Adopting the Filled- $\text{Ti}_2\text{Ni}$ Structure: A Class of Superconductors Exhibiting Exceptionally High Upper Critical Fields. Chemistry of Materials, 2021, 33, 8722-8732, .	6.7	7
29	Field-induced transition of the magnetic ground state from A-type antiferromagnetic to ferromagnetic order in $\text{CsCo}_2\text{Se}_2$ . Journal of Physics Condensed Matter, 2016, 28, 276001, .	1.8	6
30	The $\text{Cs}_3\text{WO}_{3+2x}$ Oxygen Excess Antimony Tungsten Bronze. Chemistry - A European Journal, 2019, 25, 2082-2088, .	3.3	6
31	Facile One-step Synthesis of $\text{Zn}_x\text{Mn}_x\text{SiN}_2$ Nitride Semiconductor Solid Solutions via Solid-state Metathesis Reaction. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 228-233, .	1.2	6
32	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
33	Two-gap to single-gap superconducting transition on a honeycomb lattice in $\text{Ca}_3\text{Mn}_1\text{P}_2$ . Physical Review Research, 2021, 3, .	3.6	6
34	Large resistivity reduction in mixed-valent $\text{CsAuBr}_3$ under pressure. Physical Review B, 2019, 100, .	3.2	14
35	Pressure Induced Topological Quantum Phase Transition in Weyl Semimetal $\text{Td-MoTe}_2$ . Journal of the Physical Society of Japan, 2020, 89, 094707, .	1.6	4
36	The crystal structure, electronic, and magnetic properties of $\text{NaPd}_3\text{Ge}_2$ . Materials Research Bulletin, 2015, 70, 673-677, .	5.2	2

#	ARTICLE	IF	CITATIONS
37	Growth, Crystal Structure and Magnetic Characterization of Zn-Stabilized CePtIn <sub>4</sub> . Journal of the Physical Society of Japan, 2017, 86, 084710.	1.6	2
38	Synthetic control over polymorph formation in the d-band semiconductor system FeS <sub>2</sub> . Chemical Science, 2021, 12, 13870-13877.	7.4	2
39	A Heavy Fermion Zn-Deficient CaBe <sub>2</sub> Ge <sub>2</sub> -Type Phase with Rare Ce-Based Ferromagnetism and Large Magnetoresistance. Chemistry of Materials, 2022, 34, 2352-2360.	6.7	2
40	Insensitivity of the striped charge orders in IrTe <sub>2</sub> to alkali surface doping implies their structural origin. Physical Review Materials, 2021, 5, .	2.4	1
41	: A strongly anisotropic surface. Physical Review Materials, 2019, 3, .	1.8	0
42	Break of symmetry at the surface of IrTe <sub>2</sub> upon phase transition measured by x-ray photoelectron diffraction. Journal of Physics Condensed Matter, 2022, 34, 075001.		