

# Rolf Lortz

## List of Publications by Citations

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24  
papers

563  
citations

11  
h-index

23  
g-index

25  
ext. papers

713  
ext. citations

6.7  
avg, IF

3.14  
L-index

#	Paper	IF	Citations
24	Achieving Ultrahigh Carrier Mobility in Two-Dimensional Hole Gas of Black Phosphorus. <i>Nano Letters</i> , <b>2016</b> , 16, 7768-7773	11.5	185
23	Two-dimensional superconductivity at the interface of a Bi <sub>2</sub> Te <sub>3</sub> /FeTe heterostructure. <i>Nature Communications</i> , <b>2014</b> , 5, 4247	17.4	84
22	Superconducting characteristics of 4-A carbon nanotube-zeolite composite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 7299-303	11.5	57
21	Nematic topological superconducting phase in Nb-doped Bi <sub>2</sub> Se <sub>3</sub> . <i>Npj Quantum Materials</i> , <b>2017</b> , 2,	5	41
20	Thermodynamic Evidence for the Fulde-Ferrell-Larkin-Ovchinnikov State in the KFe <sub>2</sub> As <sub>2</sub> Superconductor. <i>Physical Review Letters</i> , <b>2017</b> , 119, 217002	7.4	34
19	Odd-Integer Quantum Hall States and Giant Spin Susceptibility in p-Type Few-Layer WSe <sub>2</sub> . <i>Physical Review Letters</i> , <b>2017</b> , 118, 067702	7.4	28
18	Density of States and Its Local Fluctuations Determined by Capacitance of Strongly Disordered Graphene. <i>Scientific Reports</i> , <b>2013</b> , 3,	4.9	19
17	Detection of interlayer interaction in few-layer graphene. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	17
16	Dramatic enhancement of superconductivity in single-crystalline nanowire arrays of Sn. <i>Scientific Reports</i> , <b>2016</b> , 6, 32963	4.9	14
15	Magnetic properties of Mg-doped AlN zigzag nanowires. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2012</b> , 209, 1988-1992	1.6	13
14	Z-vestigial nematic order due to superconducting fluctuations in the doped topological insulators NbBiSe and CuBiSe. <i>Nature Communications</i> , <b>2020</b> , 11, 3056	17.4	12
13	Absence of nematic order in the pressure-induced intermediate phase of the iron-based superconductor Ba <sub>0.85</sub> K <sub>0.15</sub> Fe <sub>2</sub> As <sub>2</sub> . <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	9
12	Effect of the polymeric matrix on the structural and magnetic properties of hematite/polymer composites. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1	2.3	9
11	Spectroscopic fingerprint of chiral Majorana modes at the edge of a quantum anomalous Hall insulator/superconductor heterostructure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 238-242	11.5	9
10	Observation of the Meissner state in superconducting arrays of 4- $\mu$ m carbon nanotubes. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	6
9	A Combined Experimental and Theoretical Study of the Versatile Reactivity of an Oxocerium(IV) Complex: Concerted Versus Reductive Addition. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 10834-10839	4.8	4
8	Formation Mechanism of Superconducting Fe <sub>1+x</sub> Te/Bi <sub>2</sub> Te <sub>3</sub> Bilayer Synthesized via Interfacial Chemical Reactions. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 3370-3374	3.5	4

7	Doping dependence of the critical fluctuation regime in the Fe-based superconductor Ba <sub>1-x</sub> K <sub>x</sub> Fe <sub>2</sub> As <sub>2</sub> . <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	4
6	Edge effect and significant increase of the superconducting transition onset temperature of 2D superconductors in flat and curved geometries. <i>Physica C: Superconductivity and Its Applications</i> , <b>2016</b> , 521-522, 50-54	1.3	3
5	Pressure-induced reinforcement of interfacial superconductivity in a Bi <sub>2</sub> Te <sub>3</sub> /Fe <sub>1+y</sub> Te heterostructure. <i>Physica C: Superconductivity and Its Applications</i> , <b>2017</b> , 543, 18-21	1.3	3
4	Tuning the Self-Trapped Emission: Reversible Transformation to 0D Copper Clusters Permits Bright Red Emission in Potassium and Rubidium Copper Bromides. <i>ACS Energy Letters</i> , 4383-4389	20.1	3
3	1D goes 2D: A Berezinskii-Kosterlitz-Thouless transition in superconducting arrays of 4-Angstrom carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , <b>2010</b> , 247, 2968-2973	1.3	2
2	Evidence for the Fulde-Ferrell-Larkin-Ovchinnikov state in bulk NbS. <i>Nature Communications</i> , <b>2021</b> , 12, 3676	17.4	2
1	Observation of Room Temperature Ferromagnetism in Conducting and Insulating Cu doped ZnO Thin Films. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2015</b> , 28, 855-858	1.5	1