

Rolf Lortz

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Evidence for the Fulde-Ferrell-Larkin-Ovchinnikov state in bulk NbS. <i>Nature Communications</i> , 2021 , 12, 3676	17.4	2
23	Z-vestigial nematic order due to superconducting fluctuations in the doped topological insulators NbBiSe and CuBiSe. <i>Nature Communications</i> , 2020 , 11, 3056	17.4	12
22	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> , 2020 , 117, 238-242	11.5	9
21	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> , 2019 , 25, 10834-10839	4.8	4
20	Odd-Integer Quantum Hall States and Giant Spin Susceptibility in p-Type Few-Layer WSe ₂ . <i>Physical Review Letters</i> , 2017 , 118, 067702	7.4	28
19	Nematic topological superconducting phase in Nb-doped Bi ₂ Se ₃ . <i>Npj Quantum Materials</i> , 2017 , 2,	5	41
18	Thermodynamic Evidence for the Fulde-Ferrell-Larkin-Ovchinnikov State in the KFe ₂ As ₂ Superconductor. <i>Physical Review Letters</i> , 2017 , 119, 217002	7.4	34
17	Pressure-induced reinforcement of interfacial superconductivity in a Bi ₂ Te ₃ /Fe _{1+y} Te heterostructure. <i>Physica C: Superconductivity and Its Applications</i> , 2017 , 543, 18-21	1.3	3
16	Absence of nematic order in the pressure-induced intermediate phase of the iron-based superconductor Ba _{0.85} K _{0.15} Fe ₂ As ₂ . <i>Physical Review B</i> , 2016 , 93,	3.3	9
15	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> , 2016 , 521-522, 50-54	1.3	3
14	Achieving Ultrahigh Carrier Mobility in Two-Dimensional Hole Gas of Black Phosphorus. <i>Nano Letters</i> , 2016 , 16, 7768-7773	11.5	185
13	Dramatic enhancement of superconductivity in single-crystalline nanowire arrays of Sn. <i>Scientific Reports</i> , 2016 , 6, 32963	4.9	14
12	Observation of Room Temperature Ferromagnetism in Conducting and Insulating Cu doped ZnO Thin Films. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015 , 28, 855-858	1.5	1
11	Doping dependence of the critical fluctuation regime in the Fe-based superconductor Ba _{1-x} K _x Fe ₂ As ₂ . <i>Physical Review B</i> , 2015 , 92,	3.3	4
10	Detection of interlayer interaction in few-layer graphene. <i>Physical Review B</i> , 2015 , 92,	3.3	17
9	Formation Mechanism of Superconducting Fe _{1+x} Te/Bi ₂ Te ₃ Bilayer Synthesized via Interfacial Chemical Reactions. <i>Crystal Growth and Design</i> , 2014 , 14, 3370-3374	3.5	4
8	Two-dimensional superconductivity at the interface of a Bi ₂ Te ₃ /FeTe heterostructure. <i>Nature Communications</i> , 2014 , 5, 4247	17.4	84

7	Density of States and Its Local Fluctuations Determined by Capacitance of Strongly Disordered Graphene. <i>Scientific Reports</i> , 2013 , 3,	4.9	19
6	Effect of the polymeric matrix on the structural and magnetic properties of hematite/polymer composites. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	9
5	Magnetic properties of Mg-doped AlN zigzag nanowires. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 1988-1992	1.6	13
4	Observation of the Meissner state in superconducting arrays of 4-Å carbon nanotubes. <i>Physical Review B</i> , 2011 , 83,	3.3	6
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> , 2010 , 247, 2968-2973	1.3	2
2	Superconducting characteristics of 4-A carbon nanotube-zeolite composite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 7299-303	11.5	57
1	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