

Rolf Lortz

List of Publications by Year in descending order

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25
papers

794
citations

623188

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610482

24
g-index

25
all docs

25
docs citations

25
times ranked

1724
citing authors

#	ARTICLE	IF	CITATIONS
1	Achieving Ultrahigh Carrier Mobility in Two-Dimensional Hole Gas of Black Phosphorus. Nano Letters, 2016, 16, 7768-7773.	4.5	242
2	Two-dimensional superconductivity at the interface of a Bi ₂ Te ₃ /FeTe heterostructure. Nature Communications, 2014, 5, 4247.	5.8	114
3	Nematic topological superconducting phase in Nb-doped Bi ₂ Se ₃ . Npj Quantum Materials, 2017, 2, .	1.8	67
4	Thermodynamic Evidence for the Fulde-Ferrell-Larkin-Ovchinnikov State in the KFe_2O_7 Superconductor. Physical Review Letters, 2017, 119, 217002.	2.9	59
5	Superconducting characteristics of 4- α , β -carbon nanotube-zeolite composite. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7299-7303.	3.3	58
6	Odd-Integer Quantum Hall States and Giant Spin Susceptibility in WSe_2 Type Few-Layer Superconductor. Physical Review Letters, 2017, 118, 067702.	2.9	37
7	Z ₃ -vestigial nematic order due to superconducting fluctuations in the doped topological insulators Nb _x Bi ₂ Se ₃ and Cu _x Bi ₂ Se ₃ . Nature Communications, 2020, 11, 3056.	5.8	35
8	Detection of interlayer interaction in few-layer graphene. Physical Review B, 2015, 92, .	1.1	22
9	Spectroscopic fingerprint of chiral Majorana modes at the edge of a quantum anomalous Hall insulator/superconductor heterostructure. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 238-242.	3.3	22
10	Density of States and Its Local Fluctuations Determined by Capacitance of Strongly Disordered Graphene. Scientific Reports, 2013, 3, .	1.6	20
11	Dramatic enhancement of superconductivity in single-crystalline nanowire arrays of Sn. Scientific Reports, 2016, 6, 32963.	1.6	20
12	Tuning the Self-Trapped Emission: Reversible Transformation to OD Copper Clusters Permits Bright Red Emission in Potassium and Rubidium Copper Bromides. ACS Energy Letters, 2021, 6, 4383-4389.	8.8	16
13	Evidence for the Fulde-Ferrell-Larkin-Ovchinnikov state in bulk NbS ₂ . Nature Communications, 2021, 12, 3676.	5.8	15
14	Magnetic properties of Mg-doped AlN zigzag nanowires. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 1988-1992.	0.8	14
15	Induced intermediate phase of the iron-based superconductor $Ba_{1-x}Fe_xAs_2$. Physical Review Letters, 2012, 109, 077001.		
16	Effect of the polymeric matrix on the structural and magnetic properties of hematite/polymer composites. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	9
17	Observation of the Meissner state in superconducting arrays of 4- \AA -... carbon nanotubes. Physical Review B, 2011, 83, .	1.1	6
18	A Combined Experimental and Theoretical Study of the Versatile Reactivity of an Oxocerium(IV) Complex: Concerted Versus Reductive Addition. Chemistry - A European Journal, 2019, 25, 10834-10839.	1.7	6

#	ARTICLE	IF	CITATIONS
19	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.	1.4	5
20	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, .	1.1	4
21	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.	0.6	3
22	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.	0.6	3
23	1D goes 2D: A Berezinskiiâ€“Kosterlitzâ€“Thouless transition in superconducting arrays of 4â€“Angstrom carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2968-2973.	0.7	2
24	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.	0.8	2
25	Thermal transport properties and some hydrodynamic-like behavior in three-dimensional topological semimetal $ZrTe_5$. <i>Physical Review B</i> , 2022, 105, .	1.1	0