

N Kirova

List of Publications by Year in descending order

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48
papers

820
citations

471509
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501196
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49
all docs

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49
times ranked

610
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase Slips, Dislocations, Half-Integer Vortices, Two-Fluid Hydrodynamics, and the Chiral Anomaly in Charge and Spin Density Waves. Journal of Experimental and Theoretical Physics, 2021, 132, 714-726.	0.9	2
2	Multi-Fluid Hydrodynamics in Charge Density Waves with Collective, Electronic, and Solitonic Densities and Currents. Journal of Experimental and Theoretical Physics, 2019, 129, 659-668.	0.9	5
3	From chiral anomaly to two-fluid hydrodynamics for electronic vortices. Annals of Physics, 2019, 403, 184-197.	2.8	7
4	Multi-vortex Dynamics in Junctions of Charge Density Waves. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1343-1347.	1.8	5
5	Modeling of dynamics of field-induced transformations in charge density waves. European Physical Journal: Special Topics, 2013, 222, 1035-1046.	2.6	7
6	Creep, Flow, and Phase Slippage Regimes: An Extensive View of the Sliding Charge-Density Wave Revealed by Coherent X-ray Diffraction. Physical Review Letters, 2012, 109, 256402.	7.8	23
7	Pinning and depinning process of an incommensurate CDW as revealed by coherent X-ray diffraction. Physica B: Condensed Matter, 2012, 407, 1848-1851.	2.7	2
8	Long-Range and Local Instabilities in Sliding Charge Density Waves. Journal of Superconductivity and Novel Magnetism, 2009, 22, 559-563.	1.8	1
9	Observation of correlations up to the micrometer scale in sliding charge-density waves. Physica B: Condensed Matter, 2009, 404, 559-561.	2.7	0
10	Appearance of dislocation arrays in moving or strained charge density waves. Physica B: Condensed Matter, 2009, 404, 565-569.	2.7	6
11	Electronic states at junctions of molecular semiconductors. Journal of Physics and Chemistry of Solids, 2008, 69, 2248-2251.	4.0	0
12	Observation of Correlations Up To the Micrometer Scale in Sliding Charge-Density Waves. Physical Review Letters, 2008, 100, 096403.	7.8	38
13	Junction phenomena for unconventional semiconductors. Current Applied Physics, 2006, 6, 97-102.	2.4	6
14	Electronic correlations and excitons in conducting polymers. Synthetic Metals, 2005, 152, 313-316.	3.9	2
15	Electronic interactions and excitons in conducting polymers. Current Applied Physics, 2004, 4, 473-478.	2.4	8
16	Conjugated polymers at the verge of strongly correlated systems and 1D semiconductors. Synthetic Metals, 2004, 141, 139-147.	3.9	8
17	Unified theory for optics of conducting polymers. Synthetic Metals, 2003, 135-136, 461-462.	3.9	5
18	Self-trapping of electrons at the field-effect junction of a molecular crystal. Physical Review B, 2003, 68, .	3.2	50

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19	Optical and electrooptical absorption in conducting polymers. Thin Solid Films, 2002, 403-404, 419-424.	1.8	6
20	Singlet exciton binding energy in poly(phenylene vinylene). Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 13496-13500.	7.1	84
21	Electric field induced ionization of the exciton in poly(phenylene vinylene). Synthetic Metals, 2001, 119, 503-506.	3.9	18
22	Excitations and optical properties of phenylene based polymers: effects of electric field. Synthetic Metals, 2001, 119, 651-652.	3.9	5
23	Exciton binding energy in poly(phenylene vinylene). Synthetic Metals, 2001, 125, 93-98.	3.9	27
24	Optics of polymers in the light of solid state physics. Synthetic Metals, 2001, 125, 129-138.	3.9	16
25	Phase slippage at the interface: normal metal/sliding charge-density wave. Physica B: Condensed Matter, 2000, 280, 317-322.	2.7	0
26	Plastic sliding of charge density waves: X-ray space resolved-studies versus theory of current conversion. Physical Review B, 2000, 61, 10640-10650.	3.2	51
27	Field-induced diffusion of gold and related phase transformations in the C ₆₀ and C ₇₀ fullerenes. Physical Review B, 1999, 59, 16028-16032.	3.2	10
28	The model for optical properties of PPP-type polymers.. Synthetic Metals, 1999, 101, 271-272.	3.9	5
29	A systematic theory for optical properties of phenylene-based polymers. Synthetic Metals, 1999, 100, 29-53.	3.9	67
30	Plastic sliding, strained states and current conversion in Density Waves. Synthetic Metals, 1999, 103, 2589-2592.	3.9	1
31	Excitations and optical properties of phenylene based polymers. Synthetic Metals, 1999, 101, 188-191.	3.9	5
32	Combined topological defects in spin density waves and the NBN generation. Synthetic Metals, 1999, 103, 1831-1832.	3.9	0
33	Fullerenes dissolve gold in a sequence of phase transformations. Synthetic Metals, 1999, 103, 2456-2457.	3.9	0
34	Stability of bipolarons in conjugated polymers. Synthetic Metals, 1999, 101, 325-326.	3.9	18
35	Field induced diffusion of gold and related phase transformations in fullerenes C ₆₀ and C ₇₀ . Carbon, 1998, 36, 649-652.	10.3	3
36	Excitations and optical properties of phenylene-based conjugated polymers and oligomers. Optical Materials, 1998, 9, 472-479.	3.6	41

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37	Theory of electronic states and excitations in PPV. Optical Materials, 1998, 9, 465-471.	3.6	28
38	Stability of bipolarons in conjugated polymers. Optical Materials, 1998, 9, 502-506.	3.6	26
39	Direct Observation of Charge Density Wave Current Conversion by Spatially Resolved Synchrotron X-Ray Studies in NbSe ₃ . Physical Review Letters, 1998, 80, 5631-5634.	7.8	70
40	Contact electrode diffusion into C ₆₀ thin films. Synthetic Metals, 1997, 86, 2331-2332.	3.9	6
41	Electrons, excitons and insulator-metal phase transition in A ₄ C ₆₀ and A ₂ C ₆₀ . Synthetic Metals, 1997, 86, 2385-2386.	3.9	0
42	Contact kinetics in conducting polymers. Synthetic Metals, 1996, 76, 229-232.	3.9	26
43	Field-induced metal diffusion into C ₆₀ thin films. Synthetic Metals, 1996, 77, 59-61.	3.9	11
44	Insulator-metal transition in Rb ₄ C ₆₀ under pressure: Jahn-Teller theory versus NMR experiments. Synthetic Metals, 1996, 77, 205-208.	3.9	11
45	Insulator-metal transition in Rb ₄ C ₆₀ under pressure from ¹³ C-NMR. Journal of Physics and Chemistry of Solids, 1996, 57, 143-152.	4.0	47
46	Electronic localization in Rb ₄ C ₆₀ from bulk magnetic measurements. Physical Review B, 1995, 51, 3978-3980.	3.2	38
47	On the possible superfluidity of bipolarons on the junction surface. Solid State Communications, 1985, 55, 187-191.	1.9	18
48	SOLITONS IN CHARGE AND SPIN DENSITY WAVE SYSTEMS. Journal De Physique Colloque, 1983, 44, C3-1525-C3-1530.	0.2	7