

Christine Kuntscher

List of Publications by Year in descending order

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73
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471509

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73
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73
docs citations

73
times ranked

1558
citing authors

#	ARTICLE	IF	CITATIONS
1	Infrared study of the layered magnetic insulator Mn_2O_7 at low temperatures. Physical Review B, 2022, 105, .		
2	Spectral and structural signatures of phase transformation in the charge density wave material TaS_2 intercalated with triethylenediamine. Physical Review B, 2021, 103, .	3.2	1
3	Pressure-Induced Excitations in the Out-of-Plane Optical Response of the Nodal-Line Semimetal ZrSiS. Physical Review Letters, 2021, 127, 076402.	7.8	6
4	Atomic-scale mapping of pressure-induced deformations and phase defects in the charge density wave order parameter. Physical Review B, 2021, 104, .	3.2	3
5	Influence of magnetic ordering on the optical response of the antiferromagnetic topological insulator Bi_2Te_3 . Physical Review B, 2020, 102, .	3.2	8
6	Optical conductivity of the type-II Weyl semimetal WTe_2 under pressure. Physical Review B, 2020, 102, .	3.2	2
7	Lattice dynamics and electronic excitations in a large family of lacunar spinels with a breathing pyrochlore lattice structure. Physical Review B, 2020, 101, .	3.2	15
8	Indications for Lifshitz transitions in the nodal-line semimetal ZrSiTe induced by interlayer interaction. Physical Review B, 2020, 101, .	3.2	17
9	Infrared spectroscopy study of the nodal-line semimetal candidate ZrSiTe under pressure: Hints for pressure-induced phase transitions. Physical Review B, 2019, 99, .	3.2	14
10	Optical signature of the pressure-induced dimerization in the honeycomb iridate Li_2IrO_3 . Physical Review B, 2019, 99, .	3.2	11
11	Optical spectroscopy on the photo-response in multiferroic BiFeO_3 at high pressure. Journal of Applied Physics, 2019, 126, 164103.	2.5	1
12	Pressure-induced formation of rhodium zigzag chains in the honeycomb rhodate Li_2RhO_3 . Physical Review B, 2019, 100, .	3.2	11
13	Chemical pressure effect on the optical conductivity of the nodal-line semimetals ZrSiY and ZrSiTe . Physical Review B, 2019, 99, .	3.2	27
14	Temperature-dependent photo-response in multiferroic BiFeO_3 revealed by transmission measurements. Journal of Applied Physics, 2019, 125, .	2.5	6
15	High-Pressure Modification of BiI_3 . Inorganics, 2019, 7, 143.	2.7	3
16	Competition between spin-orbit coupling, magnetism, and dimerization in the honeycomb iridates: Li_2IrO_3 and Li_2RhO_3 . Physical Review B, 2018, 97, .	3.2	61
17	Optical spectroscopy study on pressure-induced phase transitions in the three-dimensional Dirac semimetal Cd_3As_2 . Physical Review B, 2018, 97, .	3.2	10
18	High-pressure versus isoelectronic doping effect on the honeycomb iridate NaIrO_3 . Physical Review B, 2017, 96, .	3.2	27

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19	Optical investigation of BaFe_2 : Spin-fluctuation-mediated superconductivity under pres. Physical Review B, 2017, 95, .	3.2	1
20	Optical spectroscopy study on the photo-response in multiferroic BiFeO ₃ . Applied Physics Letters, 2016, 109, .	3.3	11
21	Lattice modes and the Jahn-Teller ferroelectric transition of GaV_4S_8 . Physical Review B, 2016, 94, .	3.2	30
22	High-pressure optical study of small-diameter chirality-enriched single-wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2016, 253, 2446-2450.	1.5	5
23	Infrared study of the magnetostructural phase transition in correlated CrN. Physical Review B, 2016, 94, .	3.2	5
24	Optical study of BaFe_2 under pressure: Coexistence of spin-density-wave gap and superconductivity. Physical Review B, 2015, 92, .	3.2	7
25	Polarization-dependent infrared reflectivity study of SrO_{41} under pressure: Charge dynamics, charge distribution, and anisotropy. Physical Review B, 2014, 90, .	3.2	5
26	Suppression of the charge-density-wave state in $\text{Sr}_{10}\text{Ca}_4$. Physical Review B, 2014, 90, .	3.2	5
27	Sr_2O_4 and HgCr_4 . Physical Review B, 2014, 90, .	3.2	10
28	High-pressure optical study of bromine-doped single-walled carbon nanotube films. Physica Status Solidi (B): Basic Research, 2014, 251, 2378-2383.	1.5	13
29	Hints for the metallic phase in $\text{Rb}_{40}\text{C}_{60}$ under pressure. Physica Status Solidi (B): Basic Research, 2014, 251, 2569-2573.	1.5	0
30	High-Pressure Optical Microspectroscopy Study on Single-Walled Carbon Nanotubes Encapsulating C ₆₀ . Journal of Physical Chemistry C, 2013, 117, 21995-22001.	3.1	14
31	Polaron physics and crossover transition in magnetite probed by pressure-dependent infrared spectroscopy. Journal of Physics Condensed Matter, 2013, 25, 035602.	1.8	5
32	Pressure-Dependent FTIR-Spectroscopy on the Counterbalance between External and Internal Constraints in Spider Silk of Nephila pilipes. Macromolecules, 2013, 46, 4919-4923.	4.8	13
33	Pressure-dependent structural and electronic properties of quasi-one-dimensional (TMTTF) ₂ PF ₆ . Journal of Physics Condensed Matter, 2013, 25, 014006.	1.8	9
34	Role of the pressure transmitting medium on the pressure effects in DWCNTs. Physica Status Solidi (B): Basic Research, 2013, 250, 2616-2621.	1.5	11
35	IC_2 . Physical Review B, 2012, 86, 040401.	3.2	4
36	Pressure effects on unoriented and oriented single-walled carbon nanotube films studied by infrared microscopy. Journal of Applied Physics, 2012, 111, 112614.	2.5	1

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37	Stabilization of carbon nanotubes by filling with inner tubes: An optical spectroscopy study on double-walled carbon nanotubes under hydrostatic pressure. <i>Physical Review B</i> , 2012, 86, .	3.2	15
38	Pressure dependence of the Verwey transition in magnetite: An infrared spectroscopic point of view. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	9
39	Synthesis and characterization of peapods and DWCNTs. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2345-2348.	1.5	8
40	Phase transitions in C_{60} - C_{8H_8} under hydrostatic pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2596-2599.	1.5	2
41	Rotational Dynamics in C_{70} : Temperature- and Pressure-Dependent Infrared Studies. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3646-3653.	3.1	13
42	Pressure studies on fullerene peapods. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 2732-2735.	1.5	4
43	Pressure-induced phenomena in single-walled carbon nanotubes: Structural phase transitions and the role of pressure transmitting medium. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2789-2792.	1.5	14
44	Investigation of the Jahn-Teller effect in the C_{60}^{\ominus} monoanion under high pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 3047-3050.	1.5	1
45	Infrared spectroscopic studies on unoriented single-walled carbon nanotube films under hydrostatic pressure. <i>Physical Review B</i> , 2010, 81, .	3.2	27
46	Metal-insulator transition in $C_{60}NiS$. <i>Physical Review B</i> , 2010, 81, .	3.2	50
47	Deconfinement transition and dimensional crossover in the Bechgaard-Fabre salts: Pressure- and temperature-dependent optical investigations. <i>Physical Review B</i> , 2010, 81, .	3.2	35
48	Role of the Pressure Transmitting Medium for the Pressure Effects in Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4424-4428.	3.1	19
49	Two pressure-induced structural phase transitions in $TiOCl$. <i>Physical Review B</i> , 2010, 82, .	3.2	5
50	Filling of the Mott-Hubbard gap in the oxyhalides $TiOCl$ and $TiOBr$ induced by external pressure. <i>High Pressure Research</i> , 2009, 29, 509-513.	1.2	3
51	Pressure-induced phenomena in single-walled carbon nanotubes probed by infrared spectroscopy. <i>High Pressure Research</i> , 2009, 29, 559-563.	1.2	9
52	Effect of high pressure on multiferroic $BiFeO_3$. <i>Physical Review B</i> , 2009, 79, .	3.2	149
53	Infrared studies of magnetite under high pressure. <i>High Pressure Research</i> , 2009, 29, 500-503.	1.2	6
54	High-pressure XRD study of $\hat{I}^2-Na_{0.33}V_2O_5$. <i>High Pressure Research</i> , 2009, 29, 504-508.	1.2	6

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55	Infrared microreflectance study of the pressure effect on the structural properties of magnetically aligned single-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2288-2291.	1.5	2
56	Infrared spectroscopy on the fullerene C_{70} under pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2006-2009.	1.5	3
57	Orientational Ordering and Intermolecular Interactions in the Rotor-Stator Compounds $C_{60} \cdot C_{8}H_{8}$ and $C_{70} \cdot C_{8}H_{8}$ Studied under Pressure. <i>Journal of Physical Chemistry C</i> , 2008, 112, 17525-17532.	3.1	11
58	Mott-Hubbard gap closure and structural phase transition in the oxyhalides TiOBr and TiOCl under pressure. <i>Physical Review B</i> , 2008, 78, .	3.2	22
59	Pressure-induced metallization and structural phase transition of the Mott-Hubbard insulator TiOBr. <i>Physical Review B</i> , 2007, 76, .	3.2	17
60	Infrared spectroscopy on the rotor-stator compounds $C_{60} \cdot C_{8}H_{8}$ and $C_{70} \cdot C_{8}H_{8}$ under pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 3857-3860.	1.5	4
61	Pressure-induced phenomena in single-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 3982-3985.	1.5	5
62	Metal-insulator transition in the low-dimensional organic conductor (TMTSF) $_2$ FSO $_3$ probed by infrared microspectroscopy. <i>European Physical Journal B</i> , 2007, 56, 285-290.	1.5	1
63	Pressure-Induced Changes in the Optical Response of the Quasi-1D Organic Salt (TMTTF) $_2$ AsF $_6$. <i>Journal of Low Temperature Physics</i> , 2007, 142, 563-566.	1.4	2
64	Pressure-dependent infrared spectroscopy on the fullerene rotor-stator compound $C_{60} \cdot C_{8}H_{8}$. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 2981-2984.	1.5	10
65	Synthesis and Characterization of Nanocrystalline SrTiO $_3$. <i>Journal of the American Ceramic Society</i> , 2006, 89, 060612075903003-???	3.8	25
66	Pressure-induced deconfinement of the charge transport in the quasi-one-dimensional Mott insulator (TMTTF) $_2$ AsF $_6$. <i>Physical Review B</i> , 2006, 74, .	3.2	65
67	Possible pressure-induced insulator-to-metal transition in low-dimensional TiOCl. <i>Physical Review B</i> , 2006, 74, .	3.2	38
68	Effect of pressure on the polarized infrared optical response of the quasi-one-dimensional conductor LaTiO $_3$. <i>Physical Review B</i> , 2006, 74, .	3.2	17
69	Doping dependence of the optical properties of low-dimensional perovskite-related $La_{1-x}Ca_xTiO_{3.4 \pm \delta}$. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 9173-9187.	1.8	8
70	Infrared properties of the quasi-one-dimensional superconductor $Na_{0.33}V_2O_5$ under pressure. <i>Physical Review B</i> , 2005, 71, .	3.2	22
71	Crystal structure of LaTiO $_3$ under pressure. <i>Physical Review B</i> , 2004, 69, .	3.2	22
72	Signatures of polaronic excitations in quasi-one-dimensional LaTiO $_3$. <i>Physical Review B</i> , 2003, 67, .	3.2	28

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73	Hole distribution in $(\text{Sr,Ca,Y,La})_{14}\text{Cu}_{24}\text{O}_{41}$ ladder compounds studied by x-ray absorption spectroscopy. Physical Review B, 2000, 62, 14384-14392.	3.2	101