Christine Kuntscher

List of Publications by Year
in descending order

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73 papers	1,152 citations	471509 17 h-index	434195 31 g-index
73 all docs	73 docs citations	73 times ranked	1558 citing authors

#	Article	IF	Citations
1	Effect of high pressure on multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>BiFeO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2009, 79, .	3.2	149
2	Hole distribution in(Sr,Ca,Y,La)14Cu24O41ladder compounds studied by x-ray absorption spectroscopy. Physical Review B, 2000, 62, 14384-14392.	3.2	101
3	Pressure-induced deconfinement of the charge transport in the quasi-one-dimensional Mott insulator(TMTTF)2AsF6. Physical Review B, 2006, 74, .	3.2	65
4	Competition between spin-orbit coupling, magnetism, and dimerization in the honeycomb iridates: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mo>â^'</mml:mo><mml:msub><mml:mi under pressure. Physical Review B, 2018, 97, .	3.2	61
5	Metal-insulator transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>NiS</mml:mtext></mml:mrow><mml:mrow><mml:mn Physical Review B, 2010, 81, .	3.2	50
6	Possible pressure-induced insulator-to-metal transition in low-dimensionalTiOCl. Physical Review B, 2006, 74, .	3.2	38
7	Deconfinement transition and dimensional crossover in the Bechgaard-Fabre salts: Pressure- and temperature-dependent optical investigations. Physical Review B, 2010, 81, .	3.2	35
8	Lattice modes and the Jahn-Teller ferroelectric transition of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>GaV</mml:mi><mml:mn>4</mml:mn></mml mathvariant="normal">S</mml:mi><mml:mn>8</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2016, 94, .	3.2	30
9	Signatures of polaronic excitations in quasi-one-dimensionalLaTiO3.41. Physical Review B, 2003, 67, .	3.2	28
10	Infrared spectroscopic studies on unoriented single-walled carbon nanotube films under hydrostatic pressure. Physical Review B, 2010, 81, .	3.2	27
11	High-pressure versus isoelectronic doping effect on the honeycomb iridate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Na</mml:mi><mml:mn>2</mml:mn> Physical Review B, 2017, 96, .	3.2	27
12	Chemical pressure effect on the optical conductivity of the nodal-line semimetals <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>ZrSi</mml:mi><mml:mi>Y</mml:mi></mml:mrow><mml: width="4pt" /><mml:mo>(</mml:mo><mml:mrow><mml:mi>Y</mml:mi><mml:mo>=</mml:mo><mml:mrow><mml:mi) Tj ETQq0 0 0 rgBT /Overlock	3.2	27
13	and <mml:math xmlns:mml="http://www.w3.org/19. Physical Review B, 2019, 99, . Synthesis and Characterization of Nanocrystalline SrTiO3. Journal of the American Ceramic Society, 2006, 89, 060612075903003-???.	3.8	25
14	Crystal structure ofLaTiO3.41under pressure. Physical Review B, 2004, 69, .	3.2	22
15	Infrared properties of the quasi-one-dimensional superconductorÎ²â^'Na0.33V2O5under pressure. Physical Review B, 2005, 71, .	3.2	22
16	Mott-Hubbard gap closure and structural phase transition in the oxyhalides TiOBr and TiOCl under pressure. Physical Review B, 2008, 78, .	3.2	22
17	Role of the Pressure Transmitting Medium for the Pressure Effects in Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2010, 114, 4424-4428.	3.1	19
18	Effect of pressure on the polarized infrared optical response of the quasi-one-dimensional conductorLaTiO3.41. Physical Review B, 2006, 74, .	3.2	17

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19	Pressure-induced metallization and structural phase transition of the Mott-Hubbard insulator TiOBr. Physical Review B, 2007, 76, .	3.2	17
20	Indications for Lifshitz transitions in the nodal-line semimetal ZrSiTe induced by interlayer interaction. Physical Review B, 2020, 101, .	3.2	17
21	Stabilization of carbon nanotubes by filling with inner tubes: An optical spectroscopy study on double-walled carbon nanotubes under hydrostatic pressure. Physical Review B, 2012, 86, .	3.2	15
22	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
23	Pressureâ€induced phenomena in singleâ€walled carbon nanotubes: Structural phase transitions and the role of pressure transmitting medium. Physica Status Solidi (B): Basic Research, 2010, 247, 2789-2792.	1.5	14
24	High-Pressure Optical Microspectroscopy Study on Single-Walled Carbon Nanotubes Encapsulating C60. Journal of Physical Chemistry C, 2013, 117, 21995-22001.	3.1	14
25	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
26	Rotational Dynamics in C70: Temperature- and Pressure-Dependent Infrared Studies. Journal of Physical Chemistry C, 2011, 115, 3646-3653.	3.1	13
27	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
28	Highâ€pressure optical study of bromineâ€doped singleâ€walled carbon nanotube films. Physica Status Solidi (B): Basic Research, 2014, 251, 2378-2383.	1.5	13
29	Orientational Ordering and Intermolecular Interactions in the Rotor-Stator Compounds C₆₀·C₈H₈ and C₇₀·C₈H₈ Studied under Pressure. Journal of Physical Chemistry C, 2008, 112, 17525-17532.	3.1	11
30	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
31	Optical spectroscopy study on the photo-response in multiferroic BiFeO3. Applied Physics Letters, 2016, 109, .	3.3	11
32	Optical signature of the pressure-induced dimerization in the honeycomb iridate Î±â^'Li2IrO3. Physical Review B, 2019, 99, .	3.2	11
33	Pressure-induced formation of rhodium zigzag chains in the honeycomb rhodate Li2RhO3. Physical Review B, 2019, 100, .	3.2	11
34	Pressure-dependent infrared spectroscopy on the fullerene rotorâ€"stator compound C60â€"C8H8. Physica Status Solidi (B): Basic Research, 2006, 243, 2981-2984.	1.5	10
35	Evolution of the optical properties of chromium spinels CdCr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>, HgCr<mml:math	3.2	10
36	Optical spectroscopy study on pressure-induced phase transitions in the three-dimensional Dirac semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cd</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>As<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2018, 97, .	3.2	10

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37	Pressure-induced phenomena in single-walled carbon nanotubes probed by infrared spectroscopy. High Pressure Research, 2009, 29, 559-563.	1.2	9
38	Pressure dependence of the Verwey transition in magnetite: An infrared spectroscopic point of view. Journal of Applied Physics, 2012, 112, .	2.5	9
39	Pressure-dependent structural and electronic properties of quasi-one-dimensional (TMTTF)2PF6. Journal of Physics Condensed Matter, 2013, 25, 014006.	1.8	9
40	Doping dependence of the optical properties of low-dimensional perovskite-related La1â^'yCayTiO3.4 Â± Î´. Journal of Physics Condensed Matter, 2006, 18, 9173-9187.	1.8	8
41	Synthesis and characterization of peapods and DWCNTs. Physica Status Solidi (B): Basic Research, 2012, 249, 2345-2348.	1.5	8
42	Influence of magnetic ordering on the optical response of the antiferromagnetic topological insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mn</mml:mi><mml:msub><mml:mi>Bi</mml:mi><mml:m Physical Review B, 2020, 102, .	3.2	8
43	Optical study of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mtext>BaFe</mml:mtext><mml:mn>2</mml:mn> under pressure: Coexistence of spin-density-wave gap and superconductivity. Physical Review B, 2015, 92, .	3.2	7
44	Infrared studies of magnetite under high pressure. High Pressure Research, 2009, 29, 500-503.	1.2	6
45	High-pressure XRD study of Î²-Na_{0.33}V₂O₅. High Pressure Research, 2009, 29, 504-508.	1.2	6
46	Temperature-dependent photo-response in multiferroic BiFeO3 revealed by transmission measurements. Journal of Applied Physics, 2019, 125, .	2.5	6
47	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
48	Pressureâ€induced phenomena in singleâ€walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2007, 244, 3982-3985.	1.5	5
49	Two pressure-induced structural phase transitions in TiOCl. Physical Review B, 2010, 82, .	3.2	5
50	Polaron physics and crossover transition in magnetite probed by pressure-dependent infrared spectroscopy. Journal of Physics Condensed Matter, 2013, 25, 035602.	1.8	5
51	Polarization-dependent infrared reflectivity study of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mrow><mml:mn>2.5< mathvariant="normal">O</mml:mi><mml:mn>41</mml:mn></mml:msub></mml:mrow></mml:math>under pressure: Charge dynamics, charge distribution, and anisotropy. Physical Review B, 2014, 90, .	3.2	5
52	Suppression of the charge-density-wave state in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Sr</mml:mi></mml:mrow><mml:mn>10</mml:m xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Ca</mml:mi></mml:mrow><mml:mn>4</mml:mn> xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Cu</mml:mi></mml:mrow><mml:mn>24</mml:m xmlns:mml="h. Physical Review B, 2014, 89, .	3.2	5
53	Highâ€pressure optical study of smallâ€diameter chiralityâ€enriched singleâ€wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2016, 253, 2446-2450.	1.5	5
54	Infrared study of the magnetostructural phase transition in correlated CrN. Physical Review B, 2016, 94, .	3.2	5

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55	Infrared spectroscopy on the rotorâ€“stator compounds C60â€“C8H8 and C70â€“C8H8 under pressure. Physica Status Solidi (B): Basic Research, 2007, 244, 3857-3860.	1.5	4
56	Pressure studies on fullerene peapods. Physica Status Solidi (B): Basic Research, 2011, 248, 2732-2735.	1.5	4
57	Pressure-induced transition from the dynamic to static Jahn-Teller effect in (Ph<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>IC<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow />	3.2	4
58	Infrared spectroscopy on the fullerene C₇₀ under pressure. Physica Status Solidi (B): Basic Research, 2008, 245, 2006-2009.	1.5	3
59	Filling of the Mottâ€“Hubbard gap in the oxyhalides TiOCl and TiOBr induced by external pressure. High Pressure Research, 2009, 29, 509-513.	1.2	3
60	High-Pressure Modification of BiI3. Inorganics, 2019, 7, 143.	2.7	3
61	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
62	Pressure-Induced Changes in the Optical Response of the Quasi-1D Organic Salt (TMTTF)2AsF6. Journal of Low Temperature Physics, 2007, 142, 563-566.	1.4	2
63	Infrared microreflectance study of the pressure effect on the structural properties of magnetically aligned singleâ€wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2008, 245, 2288-2291.	1.5	2
64	Phase transitions in C₆₀Â·C₈H₈ under hydrostatic pressure. Physica Status Solidi (B): Basic Research, 2012, 249, 2596-2599.	1.5	2
65	Optical conductivity of the type-II Weyl semimetal WTe2 under pressure. Physical Review B, 2020, 102, .	3.2	2
66	Infrared study of the layered magnetic insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mn</mml:mi><mml:msub><mml:mrow><mml:mo>(</mm at low temperatures. Physical Review B, 2022, 105, .	3.2	2
67	Metal-insulator transition in the low-dimensional organic conductor (TMTSF)2FSO3 probed by infrared microspectroscopy. European Physical Journal B, 2007, 56, 285-290.	1.5	1
68	Investigation of the Jahnâ€“Teller effect in the ${m C}_{60}^{{-} } $ monoanion under high pressure. Physica Status Solidi (B): Basic Research, 2010, 247, 3047-3050.	1.5	1
69	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
70	Optical investigation of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>: Spin-fluctuation-mediated superconductivity under pres. Physical Review B, 2017, 95, .	3.2	1
71	Optical spectroscopy on the photo-response in multiferroic BiFeO3 at high pressure. Journal of Applied Physics, 2019, 126, 164103.	2.5	1
72	Spectral and structural signatures of phase transformation in the charge density wave material 1Tâ€²TaS2 intercalated with triethylenediamine. Physical Review B, 2021, 103, .	3.2	1

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73	Hints for the metallic phase in Rb₄C₆₀ under pressure. Physica Status Solidi (B): Basic Research, 2014, 251, 2569-2573.	1.5	0