

Christelle Kadlec

List of Publications by Year in descending order

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108
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citations

257101

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112
times ranked

2476
citing authors

#	ARTICLE	IF	CITATIONS
1	Onset of a superconductor-insulator transition in an ultrathin NbN film under in-plane magnetic field studied by terahertz spectroscopy. Physical Review B, 2022, 105, .	1.1	3
2	Unusual features of lattice dynamics in lawsonite near its phase transitions. Scientific Reports, 2022, 12, 6157.	1.6	1
3	Effects of Grain Boundaries on THz Conductivity in the Crystalline States of $\text{Ge}_2\text{Sb}_2\text{Te}_5$ Phase-Change Materials: Correlation with DC Loss. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2000411.	1.2	4
4	Subterahertz collective dynamics of polar vortices. Nature, 2021, 592, 376-380.	13.7	66
5	Lead-substituted barium hexaferrite for tunable terahertz optoelectronics. NPG Asia Materials, 2021, 13, .	3.8	7
6	Mass of Abrikosov vortex in high-temperature superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$. Scientific Reports, 2021, 11, 21708.	1.6	5
7	Targeted chemical pressure yields tuneable millimetre-wave dielectric. Nature Materials, 2020, 19, 176-181.	13.3	27
8	Seemingly anisotropic magnetodielectric effect in isotropic EuTiO_3 ceramics. Physical Review B, 2020, 102, .	1.1	3
9	Dielectric and conducting properties of unintentionally and Sn-doped Ga_2O_3 studied by terahertz spectroscopy. Journal of Applied Physics, 2020, 127, .	1.1	9
10	Metal-insulator transition in EuTiO_3 in the far-infrared. Physical Review B, 2020, 102, .	1.1	0
11	Anisotropic magnetodielectric effect in isotropic EuTiO_3 ceramics. , 2020, , .		0
12	Spin and lattice dynamics of multiferroic $\text{SrMn}_7\text{O}_{12}$ studied by THz and infrared spectroscopies at low temperatures and in magnetic field. , 2019, , .		0
13	Terahertz pulse emission from epitaxial n-InAs in a magnetic field. Journal Physics D: Applied Physics, 2019, 52, 365301.	1.3	6
14	Changes in spin and lattice dynamics induced by magnetic and structural phase transitions in multiferroic $\text{SrMn}_7\text{O}_{12}$. Physical Review B, 2019, 99, .		
15	Magnetolectric Excitations in Polar Antiferromagnetic Nickel Tellurates Substituted by Mn and Co. , 2019, , .		0
16	Dynamics of mesoscopic polarization in the uniaxial tetragonal tungsten bronze $(\text{Sr}_x\text{Ba}_{1-x})\text{Nb}_2\text{O}_6$. Physical Review B, 2019, 100, .	1.1	3
17	Insulator-metal transition in PrYCaCoO_3 thin films studied by terahertz and infrared spectroscopies. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
19	Electromagnon in the Y-type hexaferrite $\text{BaSrCoZnFe}_{11}\text{O}_{21}$. Physical Review B, 2018, 97, .		
20	Departure from BCS response in photoexcited superconducting NbN films observed by terahertz spectroscopy. Physical Review B, 2018, 97, .	1.1	3
21	Electric-field tuning of a planar terahertz metamaterial based on strained SrTiO_3 layers. Journal Physics D: Applied Physics, 2018, 51, 054001.	1.3	7
22	Structural and spectroscopic properties of the polar antiferromagnet NiMn_2O_6 . Physical Review B, 2018, 97, .	1.1	11
23	Vibrational spectra of multiferroics with Y- and Z-type hexaferrite structures. Ferroelectrics, 2018, 532, 208-220.	0.3	7
24	Insulator-metal transition in PrYCaCoO_{3-x} thin films studied by terahertz spectroscopy. , 2018, , .		0
25	Electromagnon in the Y-type hexaferrite $\text{BaSrCoZnFe}_{11}\text{AlO}_{22}$. , 2018, , .		0
26	Multiple polarization mechanisms across the ferroelectric phase transition of the tetragonal tungsten-bronze $\text{Sr}_{0.9}\text{Ba}_{0.1}\text{O}_{6.04}$. Physical Review Materials, 2018, 2, .	0.9	18
27	Unusual ferroelectric and magnetic phases in multiferroic Ni_2HfO_7 ceramics. Physical Review B, 2017, 95, .		
28	Bulk magnetic terahertz metamaterial based on TiO_2 microresonators (Conference Presentation). , 2017, , .		0
29	Magnetolectric excitations in multiferroic Ni_3TeO_6 . Physical Review B, 2017, 95, .	1.1	15
30	Fast polarization mechanisms in the uniaxial tungsten-bronze relaxor strontium barium niobate SBN-81. Scientific Reports, 2017, 7, 18034.	1.6	13
31	Tunable dielectric properties of KTaO_3 single crystals in the terahertz range. Journal Physics D: Applied Physics, 2016, 49, 065306.	1.3	16
32	Terahertz dielectric properties of KTaO_3 crystal: Electric-field tunability, comparison with SrTiO_3 . , 2016, , .		0
33	Terahertz dynamics of nanoconfined water molecules. , 2016, , .		0
34	THz spectroscopic investigations of magnetodielectric coupling in $\text{Sr}_{0.55}\text{Ba}_{0.45}\text{MnO}_3$ ceramics. , 2016, , .		0
35	Bulk magnetic terahertz metamaterials based on dielectric microspheres. , 2016, , .		0
36	Spectroscopic studies of the ferroelectric and magnetic phase transitions in multiferroic $\text{Sr}_{1-x}\text{Ba}_x\text{MnO}_3$. Journal of Physics Condensed Matter, 2016, 28, 175901.	0.7	11

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37	Bulk magnetic terahertz metamaterials based on dielectric microspheres. Optics Express, 2016, 24, 18340.	1.7	5
38	Electromagnon in the Z -type hexaferrite $\text{CaMn}_7\text{O}_{12}$. Physical Review B, 2016, 94, .	1.1	23
39	Incipient ferroelectricity of water molecules confined to nano-channels of beryl. Nature Communications, 2016, 7, 12842.	5.8	65
40	Far infrared and Raman response in tetragonal PZT ceramic films. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2015, 54, 219-224.	0.9	5
41	Spin and lattice excitations of a BiFeO_3 film and ceramics. Physical Review B, 2015, 91, .	1.1	27
42	THz response of TiO_2 microspheres embedded in a dielectric layer. , 2015, , .		0
43	Broadband spectroscopy of H_2O molecule confined in nano-cages of crystal lattice: Low-energy dynamics and incipient ferroelectric behavior. , 2015, , .		0
44	Spin and lattice excitations of multiferroic $(\text{Ba}_{0.2}\text{Sr}_{0.8})_3\text{Co}_2\text{Fe}_{24}\text{O}_{41}$ in the THz range. , 2015, , .		0
45	Electric-field tunable THz metamaterials based on strained SrTiO_3 films. , 2014, , .		0
46	Far-infrared electrodynamics of thin superconducting NbN film in magnetic fields. Superconductor Science and Technology, 2014, 27, 055009.	1.8	14
47	Percolation in the dielectric function of $\text{Pb}(\text{Zr}, \text{Ti})\text{O}_3$ "ferroelectric" metal composites. Journal Physics D: Applied Physics, 2014, 47, 495301.	1.3	9
48	Anisotropic dielectric response of lead zirconate crystals in the terahertz and infrared range at low temperature. Phase Transitions, 2014, 87, 1129-1137.	0.6	3
49	Spin and lattice vibrations of $\text{CaMn}_7\text{O}_{12}$ in the THz range. , 2014, , .		0
50	THz photoconductivity in light-emitting surface-oxidized Si nanocrystals: the role of large particles. New Journal of Physics, 2014, 16, 093013.	1.2	19
51	Transition between metamaterial and photonic-crystal behavior in arrays of dielectric rods. Optics Express, 2014, 22, 30492.	1.7	15
52	Multiple Soft-Mode Vibrations of Lead Zirconate. Physical Review Letters, 2014, 112, 197601.	2.9	110
53	Possible coupling between magnons and phonons in multiferroic $\text{CaMn}_7\text{O}_{12}$. Physical Review B, 2014, 90, .	1.1	18
54	THz "IR spectroscopy of single H_2O molecules confined in nanocage of beryl crystal lattice. Phase Transitions, 2014, 87, 966-972.	0.6	10

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55	Systematic study of terahertz response of SrTiO_3 -based heterostructures: Influence of strain, temperature, and electric field. <i>Physical Review B</i> , 2014, 89, .	1.1	22
56	Origin of non-drude conductivity in the THz spectra of nanogranular semiconductors. , 2014, , .		0
57	Electromagnon in ferrimagnetic Fe_2O_3 nanograin ceramics. <i>Physical</i>	1.1	13
58	Magnetic and dielectric properties of multiferroic $\text{Eu}_{0.5}\text{Ba}_{0.25}\text{Sr}_{0.25}\text{TiO}_3$ ceramics. <i>Phase Transitions</i> , 2013, 86, 191-199.	0.6	3
59	Electric-field-tunable defect mode in one-dimensional photonic crystal operating in the terahertz range. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	31
60	Terahertz and direct current losses and the origin of non-Drude terahertz conductivity in the crystalline states of phase change materials. <i>Journal of Applied Physics</i> , 2013, 114, 233105.	1.1	10
61	Emergence of central mode in the paraelectric phase of ferroelectric perovskites. <i>MRS Communications</i> , 2013, 3, 41-45.	0.8	20
62	Terahertz sensing of supercooled glycerol using a 1D photonic crystal. , 2013, , .		0
63	THz photoconductivity in Si nanocrystals: Issues of (non)percolation. , 2013, , .		0
64	Resonant terahertz response of TiO_2 microspheres. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
65	Infrared Spectroscopy of Nanoscopic Epitaxial $\text{BaTiO}_3/\text{SrTiO}_3$ Superlattices. <i>Integrated Ferroelectrics</i> , 2012, 134, 146-148.	0.3	0
66	TiO_2 microsphere-based metamaterials exhibiting effective magnetic response in the terahertz regime. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 109, 891-894.	1.1	8
67	TiO_2 microspheres metamaterials with negative permeability in the terahertz bandwidth. , 2012, , .		0
68	Resonant magnetic response of TiO_2 microspheres at terahertz frequencies. <i>Applied Physics Letters</i> , 2012, 100, 061117.	1.5	48
69	Contrast in terahertz conductivity of phase-change materials. <i>Solid State Communications</i> , 2012, 152, 852-855.	0.9	35
70	Electric field induced tuning of the dielectric properties of strontium titanate bulk crystals in terahertz frequency range. , 2011, , .		0
71	Study of the ferroelectric phase transition in GeTe using time-domain THz spectroscopy. , 2011, , .		1
72	Terahertz spectroscopy with focused beams: Gouy shift correction for highly accurate refractive index retrieval. , 2011, , .		0

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73	Investigation of metamaterials for terahertz frequency range. , 2011, , .		0
74	Tunable THz metamaterials based on an array of paraelectric SrTiO ₃ rods. Applied Physics A: Materials Science and Processing, 2011, 103, 689-692.	1.1	21
75	Study of the ferroelectric phase transition in germanium telluride using time-domain terahertz spectroscopy. Physical Review B, 2011, 84, .	1.1	31
76	Terahertz and infrared spectroscopic evidence of phonon-paramagnon coupling in hexagonal piezomagnetic YMnO ₃ . Physical Review B, 2011, 84, .	1.1	23
77	Tuning of dielectric properties of SrTiO ₃ in the terahertz range. Physical Review B, 2011, 84, .	1.1	24
78	Systematic Study of Mn-Doping Trends in Optical Properties of (Ga,Mn)As. Physical Review Letters, 2010, 105, 227201.	2.9	45
79	Electric field tuning of hard polar phonons in strained SrTiO ₃ films. Journal of Applied Physics, 2010, 107, 124116.	1.1	2
80	Effect of Fe doping on the terahertz conductivity of GaN single crystals. Journal Physics D: Applied Physics, 2010, 43, 145401.	1.3	6
81	THz and infrared studies of multiferroic hexagonal Y _{1-x} Eu _x MnO ₃ (x=0.2) ceramics. Phase Transitions, 2010, 83, 931-941.		14
82	Gouy shift correction for highly accurate refractive index retrieval in time-domain terahertz spectroscopy. Optics Express, 2010, 18, 15338.	1.7	91
83	Fishnet metamaterials on thin polymer film for terahertz applications. , 2010, , .		0
84	Terahertz Dielectric and Magnetic Response Near Magnetic Phase Transition in a Hexagonal Multiferroic YMnO ₃ . , 2010, , .		0
85	Temperature and electric field tuning of the ferroelectric soft mode in a strained SrTiO ₃ /DyScO ₃ multilayers. Physical Review B, 2009, 80, .	1.1	48
86	Soft mode behavior in SrTiO ₃ /DyScO ₃ thin films: Evidence of ferroelectric and antiferrodistortive phase transitions. Applied Physics Letters, 2009, 95, .	1.5	44
87	High tunability of the soft mode in strained SrTiO ₃ /DyScO ₃ multilayers. Journal of Physics Condensed Matter, 2009, 21, 115902.	0.7	42
88	Tunable terahertz metamaterials with negative permeability. Physical Review B, 2009, 79, .	1.1	99
89	Broadband dielectric terahertz metamaterials with negative permeability. Optics Letters, 2009, 34, 3541.	1.7	38
90	Ferroelectric and Incipient Ferroelectric Properties of a Novel Sr _{9-9x} PbxCe ₂ Ti ₂ O ₃₆ (x = 0~9) Ceramic System. Chemistry of Materials, 2009, 21, 811-819.	3.2	16

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91	Tunable metamaterials with negative permeability in THz range. , 2009, , .		0
92	Materials with on-demand refractive indices in the terahertz range. Optics Letters, 2008, 33, 2275.	1.7	26
93	Coexistence of the Phonon and Relaxation Soft Modes in the Terahertz Dielectric Response of Tetragonal BaTiO_3 . Physical Review Letters, 2008, 101, 167402.	2.9	191
94	Modulators of THz radiation based on SrTiO_3 epitaxial thin films. , 2008, , .		0
95	Field-induced soft mode hardening in $\text{SrTiO}_3/\text{DyScO}_3$ multilayers. Applied Physics Letters, 2008, 93, .	1.5	20
96	Ultrafast far-infrared dynamics probed by terahertz pulses: A frequency-domain approach. II. Applications. Journal of Chemical Physics, 2005, 122, 104504.	1.2	27
97	High-temperature phase transitions in $\text{SrBi}_2\text{Ta}_2\text{O}_9$ film: a study by THz spectroscopy. Journal of Physics Condensed Matter, 2004, 16, 6763-6769.	0.7	10
98	Hugoniot Data for Carbon at Megabar Pressures. Physical Review Letters, 2004, 92, 065503.	2.9	41
99	Optical pump-terahertz probe spectroscopy of dyes in solutions: Probing the dynamics of liquid solvent or solid precipitate?. Journal of Chemical Physics, 2004, 120, 912-917.	1.2	9
100	Soft X-ray contact microscopy of nematode <i>Caenorhabditis elegans</i> . European Physical Journal D, 2004, 30, 235-241.	0.6	8
101	<title>Laser-driven shock experiments at PALS</title>. , 2004, , .		0
102	<title>Carbon hugoniot at megabar pressures driven by laser-induced shocks</title>. , 2004, , .		0
103	Shock pressure induced by 0.44 μm laser radiation on aluminum targets. Laser and Particle Beams, 2003, 21, 481-487.	0.4	18
104	X-ray microscopy of living multicellular organisms with the Prague Asterix Iodine Laser System. Laser and Particle Beams, 2003, 21, 511-516.	0.4	8
105	Ablation pressure scaling at short laser wavelength. Physical Review E, 2003, 68, 067403.	0.8	53
106	Transient phenomena in closed electron drift plasma thrusters: insights obtained in a French cooperative program. Plasma Sources Science and Technology, 2001, 10, 364-377.	1.3	53
107	Plasma diagnostic systems for Hall-effect plasma thrusters. Plasma Physics and Controlled Fusion, 2000, 42, B323-B339.	0.9	27
108	Photon-assisted ultrafast plasma expansion in GaAs. , 0, , .		0