

Thomas Dumelow

List of Publications by Year in descending order

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90
papers

1,277
citations

331670

21
h-index

414414

32
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90
all docs

90
docs citations

90
times ranked

752
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of strongly nonreciprocal reflected phase behavior on waveguiding structures containing antiferromagnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, , 169329.	2.3	0
2	Oriented Asymmetric Wave Propagation and Refraction Bending in Hyperbolic Media. <i>ACS Photonics</i> , 2018, 5, 5086-5094.	6.6	14
3	Surface mode enhancement of the Goos-Hänchen shift in direct reflection off antiferromagnets. <i>Physical Review B</i> , 2018, 97, .	3.2	15
4	Far infrared studies of magnetic systems. , 2017, , .		0
5	Far infrared spectroscopy of phonons and plasmons in semiconductor superlattices. , 2017, , .		0
6	Development of a new high resolution far infrared fourier transform spectrometer.. , 2017, , .		0
7	Two-prism crystal structures for far-field imaging of subwavelength features at terahertz frequencies. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 085103.	2.2	1
8	Tunable Focusing in Natural Hyperbolic Magnetic Media. <i>ACS Photonics</i> , 2016, 3, 1670-1677.	6.6	22
9	Negative Refraction and Imaging from Natural Crystals with Hyperbolic Dispersion. <i>Solid State Physics</i> , 2016, , 103-182.	0.5	3
10	Polarized infrared attenuated total reflection study of sapphire crystals with different crystallographic planes. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	1
11	Far field imaging of subwavelength features from the phonon response in single crystal structures. , 2015, , .		0
12	Tunable magneto-optical effects in antiferromagnetic structures. , 2015, , .		0
13	Spin canting induced nonreciprocal Goos-Hänchen shifts. <i>Optics Express</i> , 2014, 22, 28467.	3.4	32
14	Surface phonon polariton responses of hexagonal sapphire crystals with non-polar and semi-polar crystallographic planes. <i>Optics Letters</i> , 2014, 39, 5467.	3.3	7
15	Publisher's Note: Tunable all-angle negative refraction using antiferromagnets [<i>Phys. Rev. B</i> 89, 035135 (2014)]. <i>Physical Review B</i> , 2014, 89, .	3.2	0
16	MgF2 as a material exhibiting all-angle negative refraction and subwavelength imaging due to the phonon response in the far infrared. <i>Optics Communications</i> , 2014, 310, 94-99.	2.1	12
17	Calculation of dispersion of surface and interface phonon polariton resonances in wurtzite semiconductor multilayer system taking damping effects into account. <i>Thin Solid Films</i> , 2014, 551, 114-119.	1.8	5
18	Tunable all-angle negative refraction using antiferromagnets. <i>Physical Review B</i> , 2014, 89, .	3.2	20

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19	Crystal orientation dependence of polarized infrared reflectance response of hexagonal sapphire crystal. <i>Optical Materials</i> , 2014, 37, 773-779.	3.6	11
20	Beam shifts on reflection of electromagnetic radiation off anisotropic crystals at optic phonon frequencies. <i>Journal of Optics (United Kingdom)</i> , 2013, 15, 014013.	2.2	18
21	Beam shifts of Far-Infrared Radiation on Reflection off the Anisotropic Crystal LiYF ₄ . , 2012, , .		0
22	Far-infrared slab lensing and subwavelength imaging in crystal quartz. <i>Physical Review B</i> , 2012, 86, .	3.2	32
23	Tunable all-angle negative refraction in antiferromagnets. , 2012, , .		0
24	Nonreciprocity in the Goos-Hänchen shift on oblique incidence reflection off antiferromagnets. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011, 28, 306.	2.1	26
25	Negative Refraction of Far-Infrared Radiation in Quartz. <i>Optics and Photonics News</i> , 2011, 22, 42.	0.5	0
26	Using Phonon Resonances as a Route to All-Angle Negative Refraction in the Far-Infrared Region: The Case of Crystal Quartz. <i>Physical Review Letters</i> , 2010, 105, 163903.	7.8	22
27	All-Angle Negative Refraction in Quartz. , 2010, , .		0
28	All-Angle Negative Refraction from the Phonon Response in Anisotropic Crystals. , 2010, , .		0
29	Nitriding in cathodic cage of stainless steel AISI 316: Influence of sample position. <i>Vacuum</i> , 2009, 83, 1402-1405.	3.5	27
30	Power flow associated with the Goos-Hänchen shift of a normally incident electromagnetic beam reflected off an antiferromagnet. <i>Physical Review B</i> , 2009, 79, .	3.2	26
31	Nonreciprocal Goos-Hänchen Shift on Oblique Incidence Reflection off Antiferromagnets. , 2009, , .		0
32	Particle size distribution in FeAg granular alloy. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 4883-4886.	3.1	3
33	Ionic nitriding in cathodic cage of AISI 420 martensitic stainless steel. <i>Surface Engineering</i> , 2008, 24, 52-56.	2.2	23
34	Lateral shift of far infrared radiation on normal incidence reflection off an antiferromagnet. <i>Europhysics Letters</i> , 2008, 83, 17003.	2.0	28
35	Deposition of TiO ₂ on silicon by sputtering in hollow cathode. <i>Surface and Coatings Technology</i> , 2006, 201, 2990-2993.	4.8	14
36	Slab lenses from simple anisotropic media. <i>Physical Review B</i> , 2005, 72, .	3.2	40

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37	Magnetic properties of the granular alloy Fe ₁₀ Ag ₉₀ as a function of annealing temperature. <i>Materials Research</i> , 2005, 8, 347-350.	1.3	2
38	Reentrant spin glass behavior in polycrystalline La _{0.7} Sr _{0.3} Mn _{1-X} Fe _X O ₃ . <i>Materials Research</i> , 2004, 7, 355-357.	1.3	7
39	Giant magnetoimpedance in FeAg granular alloys. <i>Applied Physics Letters</i> , 2002, 80, 2532-2534.	3.3	14
40	Use of a four detector photopolarimeter for Kerr effect measurements. <i>Review of Scientific Instruments</i> , 2002, 73, 1255-1258.	1.3	0
41	A simple AC susceptometer mounted on a cryostat cold finger. <i>Journal of Magnetism and Magnetic Materials</i> , 2001, 226-230, 2063-2064.	2.3	4
42	Effect of Fe doping in polycrystalline La _{0.7} Sr _{0.3} MnO ₃ on transport and magnetic properties. <i>Journal of Magnetism and Magnetic Materials</i> , 2001, 226-230, 826-828.	2.3	3
43	Magnetic and transport properties of polycrystalline La _{0.7} Sr _{0.3} Mn _{1-x} Fe _x O ₃ . <i>Physical Review B</i> , 2000, 63, .	3.2	56
44	A high-resolution Fourier transform spectrometer for far infrared magneto-optic spectroscopy of magnetic materials. <i>Infrared Physics and Technology</i> , 1999, 40, 219-230.	2.9	4
45	Prediction of Berreman-like magnon-polariton modes in antiferromagnetic films. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 7809-7822.	1.8	1
46	Dielectric susceptibility model for optical phonons in superlattices. <i>Physical Review B</i> , 1998, 57, 3978-3988.	3.2	3
47	Nonreciprocal phase behavior in reflection of electromagnetic waves from magnetic materials. <i>Physical Review B</i> , 1998, 58, 897-908.	3.2	22
48	Continuum model of confined magnon polaritons in superlattices of antiferromagnets. <i>Physical Review B</i> , 1997, 55, 994-1005.	3.2	18
49	Far infrared spectroscopy of thin epitaxial layers of GaN deposited by molecular beam epitaxy on GaP substrates. <i>Infrared Physics and Technology</i> , 1996, 37, 389-394.	2.9	10
50	Nonreciprocal reflection of infrared radiation from structures with antiferromagnets and dielectrics. <i>Physical Review B</i> , 1996, 54, 12232-12237.	3.2	20
51	Measurement of the hyperfine anomaly between Os ¹⁸⁷ and Os ¹⁸⁹ . <i>Physical Review C</i> , 1996, 54, 2310-2312.	2.9	1
52	Far infrared attenuated total reflection spectroscopy for investigating superlattice phonon parameters. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 8027-8039.	1.8	11
53	Far-infrared spectra of reflectivity, transmission and hot-hole emission in p-doped multiple quantum wells. <i>Semiconductor Science and Technology</i> , 1996, 11, 323-330.	2.0	11
54	Determination of the far infrared optical constants of \hat{I} -doped bulk Cd _x Hg _{1-x} Te (CMT) by dispersive fourier transform spectroscopy. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1995, 16, 763-773.	0.6	5

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55	Far infrared reflectivity off FeF ₂ . Journal of Magnetism and Magnetic Materials, 1995, 140-144, 181-182.	2.3	3
56	Far-infrared investigations of band non-parabolicities in highly doped multiple quantum well structures. Semiconductor Science and Technology, 1995, 10, 1323-1328.	2.0	0
57	Nonreciprocal reflection by magnons in FeF ₂ : A high-resolution study. Physical Review B, 1994, 49, 12266-12269.	3.2	35
58	Oblique-incidence far-infrared reflectivity study of the uniaxial antiferromagnet FeF ₂ . Physical Review B, 1994, 50, 6808-6816.	3.2	41
59	Raman spectroscopy of GaAs/AlAs superlattices: a study of interface roughness. Journal of Luminescence, 1994, 60-61, 349-352.	3.1	1
60	Fourier transform far-infrared spectroscopy of GaInAs/InP superlattices. , 1994, , .		0
61	Far infrared measurements of Ga _{0.47} In _{0.53} As/InP short period superlattices. Superlattices and Microstructures, 1993, 14, 167-171.	3.1	0
62	Far-infrared spectroscopy of phonons and plasmons in semiconductor superlattices. Surface Science Reports, 1993, 17, 151-212.	7.2	98
63	Optical properties of semiconductor superlattices in the far infrared. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1993, 10, 633.	1.5	55
64	Interface and confined optic phonon modes for superlattices in the long-wavelength limit. Journal of Physics Condensed Matter, 1993, 5, 2919-2926.	1.8	3
65	Effects of interface broadening on far-infrared and Raman spectra of GaAs/AlAs superlattices. Physical Review B, 1992, 46, 2375-2392.	3.2	49
66	Raman scattering measurements on InGaAs/AlAs strained MQWs. Superlattices and Microstructures, 1992, 11, 403-407.	3.1	2
67	Observation of surface plasmons in doped superlattices using far infrared attenuated total reflection. Solid State Communications, 1991, 77, 253-256.	1.9	12
68	Observation of surface and bulk plasmons in semiconductor superlattices. Superlattices and Microstructures, 1991, 9, 517-520.	3.1	6
69	Far-Infrared and Raman Studies of Semiconductor Superlattices. NATO ASI Series Series B: Physics, 1991, , 461-476.	0.2	0
70	Far infrared study of surface and interface polaritons in CdTe/Cd _x Hg _{1-x} Te/CdTe heterostructures deposited on GaAs substrates by plasma enhanced MOCVD. , 1991, , .		0
71	Analysis of Far Infrared Spectra Showing Bulk and Surface Phonon-Polaritons in CdTe Epilayers on GaAs Substrates. Physica Status Solidi (B): Basic Research, 1990, 161, 233-244.	1.5	10
72	Far infrared measurements of bulk and surface phonons in GaAs/AlAs superlattices. Journal of Infrared, Millimeter and Terahertz Waves, 1990, 11, 901-917.	0.6	14

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73	Study of bulk and surface phonons and plasmons in GaAs/AlAs superlattices by Far-IR and Raman spectroscopy. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1990, 5, 205-209.	3.5	13
74	Far-IR spectroscopy of bulk and surface phonon-polaritons on epitaxial layers of CdTe deposited by plasma MOCVD on GaAs substrates. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1990, 5, 217-221.	3.5	5
75	The magnetic moment at the yttrium site in Y-Fe compounds: pressure dependence of the magnetisation and hyperfine field. <i>Journal of Physics Condensed Matter</i> , 1989, 1, 3987-3994.	1.8	43
76	Search for hyperfine anomaly and quadrupole interaction of Os in Fe. <i>Hyperfine Interactions</i> , 1989, 51, 915-915.	0.5	5
77	Compositional Heterogeneity of Copolymers by Combined GPC and Lalls. <i>Journal of Macromolecular Science Part A, Chemistry</i> , 1989, 26, 125-146.	0.3	8
78	Quadrupole interactions at the ^{27}Al nuclei of GdAl_2 as a function of pressure, temperature, holmium substitution and the application of an external field. <i>Journal of Physics F: Metal Physics</i> , 1988, 18, 307-322.	1.6	19
79	PRESSURE DEPENDENCE OF THE ELECTRIC FIELD GRADIENT AT THE Al NUCLEUS IN GdAl_2 . <i>Journal De Physique Colloque</i> , 1988, 49, C8-451-C8-452.	0.2	0
80	Hyperfine-field spectrum of epitaxially grown bcc cobalt. <i>Physical Review B</i> , 1987, 36, 4595-4599.	3.2	57
81	The NMR investigation of $\text{Nd}_2\text{Co}_{14}\text{B}$ and $\text{Y}_2\text{Co}_{14}\text{B}$ compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 1987, 65, 83-92.	2.3	17
82	Pressure dependence of the distribution of hyperfine fields in ZrFe_2 and $\text{Zr}(\text{Nb})\text{Fe}_2$. <i>Hyperfine Interactions</i> , 1987, 34, 407-410.	0.5	8
83	Hyperfine field and electric quadrupole interaction of ^{51}V in YFe_2 and HoFe_2 . <i>Hyperfine Interactions</i> , 1987, 34, 411-414.	0.5	3
84	A computer controlled spin echo spectrometer for the study of ferromagnetic materials. <i>Hyperfine Interactions</i> , 1987, 35, 1061-1064.	0.5	54
85	Pressure dependence of the magnetisation of YFe_2 and ZrFe_2 : computation and experiment. <i>Journal of Physics F: Metal Physics</i> , 1986, 16, L141-L144.	1.6	44
86	Determination of the molecular weight and compositional heterogeneity of block copolymers using combined gel permeation chromatography and low-angle laser light scattering. <i>Polymer</i> , 1986, 27, 1170-1176.	3.8	25
87	Pressure dependence of the hyperfine field of YFe_2 and ZrFe_2 . <i>Journal of Magnetism and Magnetic Materials</i> , 1986, 54-57, 1081-1082.	2.3	34
88	Investigation of Y-Fe intermetallic compounds using NMR, magnetization and curie point measurements at high pressure. <i>Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics</i> , 1985, 130, 449-452.	0.9	11
89	Confirmation of the giant hyperfine anomaly of the system $^{184}\text{W}^{2+}$ - ^{183}W g by new spin-echo experiments with ^{183}WFe and remarks on possible explanations. <i>Zeitschrift für Physik A</i> , 1985, 322, 75-82.	1.4	8
90	Nonreciprocal Phenomena on Reflection of Terahertz Radiation off Antiferromagnets. , 0, , .		0