

# 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  
g-index

90  
all docs

90  
docs citations

90  
times ranked

752  
citing authors

#	ARTICLE	IF	CITATIONS
1	Far-infrared spectroscopy of phonons and plasmons in semiconductor superlattices. Surface Science Reports, 1993, 17, 151-212.	7.2	98
2	Hyperfine-field spectrum of epitaxially grown bcc cobalt. Physical Review B, 1987, 36, 4595-4599.	3.2	57
3	Magnetic and transport properties of polycrystalline $\text{La}_{0.7}\text{Sr}_{0.3}\text{Mn}_{1-x}\text{Fe}_x\text{O}_3$ . Physical Review B, 2000, 63, .	3.2	56
4	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
5	A computer controlled spin echo spectrometer for the study of ferromagnetic materials. Hyperfine Interactions, 1987, 35, 1061-1064.	0.5	54
6	Effects of interface broadening on far-infrared and Raman spectra of GaAs/AlAs superlattices. Physical Review B, 1992, 46, 2375-2392.	3.2	49
7	Pressure dependence of the magnetisation of YFe <sub>2</sub> and ZrFe <sub>2</sub> : computation and experiment. Journal of Physics F: Metal Physics, 1986, 16, L141-L144.	1.6	44
8	The magnetic moment at the yttrium site in Y-Fe compounds: pressure dependence of the magnetisation and hyperfine field. Journal of Physics Condensed Matter, 1989, 1, 3987-3994.	1.8	43
9	Oblique-incidence far-infrared reflectivity study of the uniaxial antiferromagnet FeF <sub>2</sub> . Physical Review B, 1994, 50, 6808-6816.	3.2	41
10	Slab lenses from simple anisotropic media. Physical Review B, 2005, 72, .	3.2	40
11	Nonreciprocal reflection by magnons in FeF <sub>2</sub> : A high-resolution study. Physical Review B, 1994, 49, 12266-12269.	3.2	35
12	Pressure dependence of the hyperfine field of YFe <sub>2</sub> and ZrFe <sub>2</sub> . Journal of Magnetism and Magnetic Materials, 1986, 54-57, 1081-1082.	2.3	34
13	Far-infrared slab lensing and subwavelength imaging in crystal quartz. Physical Review B, 2012, 86, .	3.2	32
14	Spin canting induced nonreciprocal Goos-Hänchen shifts. Optics Express, 2014, 22, 28467.	3.4	32
15	Lateral shift of far infrared radiation on normal incidence reflection off an antiferromagnet. Europhysics Letters, 2008, 83, 17003.	2.0	28
16	Nitriding in cathodic cage of stainless steel AISI 316: Influence of sample position. Vacuum, 2009, 83, 1402-1405.	3.5	27
17	Power flow associated with the Goos-Hänchen shift of a normally incident electromagnetic beam reflected off an antiferromagnet. Physical Review B, 2009, 79, .	3.2	26
18	Nonreciprocity in the Goos-Hänchen shift on oblique incidence reflection off antiferromagnets. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 306.	2.1	26

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19	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
20	Ionic nitriding in cathodic cage of AISI 420 martensitic stainless steel. <i>Surface Engineering</i> , 2008, 24, 52-56.	2.2	23
21	Nonreciprocal phase behavior in reflection of electromagnetic waves from magnetic materials. <i>Physical Review B</i> , 1998, 58, 897-908.	3.2	22
22	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
23	Tunable Focusing in Natural Hyperbolic Magnetic Media. <i>ACS Photonics</i> , 2016, 3, 1670-1677.	6.6	22
24	Nonreciprocal reflection of infrared radiation from structures with antiferromagnets and dielectrics. <i>Physical Review B</i> , 1996, 54, 12232-12237.	3.2	20
25	Tunable all-angle negative refraction using antiferromagnets. <i>Physical Review B</i> , 2014, 89, .	3.2	20
26	Quadrupole interactions at the $^{27}\text{Al}$ nuclei of $\text{GdAl}_2$ 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
27	Continuum model of confined magnon polaritons in superlattices of antiferromagnets. <i>Physical Review B</i> , 1997, 55, 994-1005.	3.2	18
28	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
29	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
30	Surface mode enhancement of the Goos-Hänchen shift in direct reflection off antiferromagnets. <i>Physical Review B</i> , 2018, 97, .	3.2	15
31	Far infrared measurements of bulk and surface phonons in GaAs/AlAs superlattices. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1990, 11, 901-917.	0.6	14
32	Giant magnetoimpedance in FeAg granular alloys. <i>Applied Physics Letters</i> , 2002, 80, 2532-2534.	3.3	14
33	Deposition of $\text{TiO}_2$ on silicon by sputtering in hollow cathode. <i>Surface and Coatings Technology</i> , 2006, 201, 2990-2993.	4.8	14
34	Oriented Asymmetric Wave Propagation and Refraction Bending in Hyperbolic Media. <i>ACS Photonics</i> , 2018, 5, 5086-5094.	6.6	14
35	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
36	Observation of surface plasmons in doped superlattices using far infrared attenuated total reflection. <i>Solid State Communications</i> , 1991, 77, 253-256.	1.9	12

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37	MgF <sub>2</sub> 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
38	Investigation of Y-Fe intermetallic compounds using NMR, magnetization and curie point measurements at high pressure. <i>Physica B: Physics of Condensed Matter &amp; C: Atomic, Molecular and Plasma Physics, Optics</i> , 1985, 130, 449-452.	0.9	11
39	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
40	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
41	Crystal orientation dependence of polarized infrared reflectance response of hexagonal sapphire crystal. <i>Optical Materials</i> , 2014, 37, 773-779.	3.6	11
42	Analysis of Far Infrared Spectra Showing Bulk and Surface Phonon-Polaritons in CdTe Epilayers on GaAs Substrates. <i>Physica Status Solidi (B): Basic Research</i> , 1990, 161, 233-244.	1.5	10
43	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
44	Confirmation of the giant hyperfine anomaly of the system <sup>184</sup> W <sub>2</sub> + <sup>183</sup> W g by new spin-echo experiments with <sup>183</sup> WFe and remarks on possible explanations. <i>Zeitschrift für Physik A</i> , 1985, 322, 75-82.	1.4	8
45	Pressure dependence of the distribution of hyperfine fields in ZrFe <sub>2</sub> and Zr(Nb)Fe <sub>2</sub> . <i>Hyperfine Interactions</i> , 1987, 34, 407-410.	0.5	8
46	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
47	Reentrant spin glass behavior in polycrystalline La <sub>0.7</sub> Sr <sub>0.3</sub> Mn <sub>1-X</sub> Fe <sub>X</sub> O <sub>3</sub> . <i>Materials Research</i> , 2004, 7, 355-357.	1.3	7
48	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
49	Observation of surface and bulk plasmons in semiconductor superlattices. <i>Superlattices and Microstructures</i> , 1991, 9, 517-520.	3.1	6
50	Search for hyperfine anomaly and quadrupole interaction of Os in Fe. <i>Hyperfine Interactions</i> , 1989, 51, 915-915.	0.5	5
51	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
52	Determination of the far infrared optical constants of $\hat{\Gamma}$ -doped bulk Cd <sub>x</sub> Hg <sub>1-x</sub> Te (CMT) by dispersive fourier transform spectroscopy. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1995, 16, 763-773.	0.6	5
53	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
54	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

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55	A simple AC susceptometer mounted on a cryostat cold finger. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 2063-2064.	2.3	4
56	Hyperfine field and electric quadrupole interaction of $^{51}\text{V}$ in $\text{YFe}_2$ and $\text{HoFe}_2$ . Hyperfine Interactions, 1987, 34, 411-414.	0.5	3
57	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
58	Far infrared reflectivity off $\text{FeF}_2$ . Journal of Magnetism and Magnetic Materials, 1995, 140-144, 181-182.	2.3	3
59	Dielectric susceptibility model for optical phonons in superlattices. Physical Review B, 1998, 57, 3978-3988.	3.2	3
60	Effect of Fe doping in polycrystalline $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ on transport and magnetic properties. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 826-828.	2.3	3
61	Particle size distribution in $\text{FeAg}$ granular alloy. Journal of Non-Crystalline Solids, 2008, 354, 4883-4886.	3.1	3
62	Negative Refraction and Imaging from Natural Crystals with Hyperbolic Dispersion. Solid State Physics, 2016, , 103-182.	0.5	3
63	Raman scattering measurements on $\text{InGaAs/AlAs}$ strained MQWs. Superlattices and Microstructures, 1992, 11, 403-407.	3.1	2
64	Magnetic properties of the granular alloy $\text{Fe}_{10}\text{Ag}_{90}$ as a function of annealing temperature. Materials Research, 2005, 8, 347-350.	1.3	2
65	Raman spectroscopy of $\text{GaAs-AlAs}$ superlattices: a study of interface roughness. Journal of Luminescence, 1994, 60-61, 349-352.	3.1	1
66	Measurement of the hyperfine anomaly between $^{187}\text{Os}$ and $^{189}\text{Os}$ . Physical Review C, 1996, 54, 2310-2312.	2.9	1
67	Prediction of Berreman-like magnon-polariton modes in antiferromagnetic films. Journal of Physics Condensed Matter, 1998, 10, 7809-7822.	1.8	1
68	Polarized infrared attenuated total reflection study of sapphire crystals with different crystallographic planes. AIP Conference Proceedings, 2015, , .	0.4	1
69	Two-prism crystal structures for far-field imaging of subwavelength features at terahertz frequencies. Journal of Optics (United Kingdom), 2016, 18, 085103.	2.2	1
70	Far infrared measurements of $\text{Ga}_{0.47}\text{In}_{0.53}\text{As/InP}$ short period superlattices. Superlattices and Microstructures, 1993, 14, 167-171.	3.1	0
71	Fourier transform far-infrared spectroscopy of $\text{GaInAs/InP}$ superlattices. , 1994, , .		0
72	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

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73	Use of a four detector photopolarimeter for Kerr effect measurements. Review of Scientific Instruments, 2002, 73, 1255-1258.	1.3	0
74	Nonreciprocal Phenomena on Reflection of Terahertz Radiation off Antiferromagnets. , 0, , .		0
75	Negative Refraction of Far-Infrared Radiation in Quartz. Optics and Photonics News, 2011, 22, 42.	0.5	0
76	Beam shifts of Far-Infrared Radiation on Reflection off the Anisotropic Crystal LiYF4. , 2012, , .		0
77	Publisher's Note: Tunable all-angle negative refraction using antiferromagnets [Phys. Rev. B <b>89</b>, 035135 (2014)]. Physical Review B, 2014, 89, .	3.2	0
78	Far field imaging of subwavelength features from the phonon response in single crystal structures. , 2015, , .		0
79	Tunable magneto-optical effects in antiferromagnetic structures. , 2015, , .		0
80	Nonreciprocal Goos-Hänchen Shift on Oblique Incidence Reflection off Antiferromagnets. , 2009, , .		0
81	All-Angle Negative Refraction in Quartz. , 2010, , .		0
82	All-Angle Negative Refraction from the Phonon Response in Anisotropic Crystals. , 2010, , .		0
83	Tunable all-angle negative refraction in antiferromagnets. , 2012, , .		0
84	Far-Infrared and Raman Studies of Semiconductor Superlattices. NATO ASI Series Series B: Physics, 1991, , 461-476.	0.2	0
85	Far infrared study of surface and interface polaritons in CdTe/CdxHg1-xTe/CdTe heterostructures deposited on GaAs substrates by plasma enhanced MOCVD. , 1991, , .		0
86	Far infrared studies of magnetic systems. , 2017, , .		0
87	Far infrared spectroscopy of phonons and plasmons in semiconductor superlattices. , 2017, , .		0
88	Development of a new high resolution far infrared fourier transform spectrometer.. , 2017, , .		0
89	The effect of strongly nonreciprocal reflected phase behavior on waveguiding structures containing antiferromagnets. Journal of Magnetism and Magnetic Materials, 2022, , 169329.	2.3	0
90	PRESSURE DEPENDENCE OF THE ELECTRIC FIELD GRADIENT AT THE Al NUCLEUS IN GdAl2. Journal De Physique Colloque, 1988, 49, C8-451-C8-452.	0.2	0