David B Tanner

List of Publications by Year
in descending order

108 papers	5,700 citations	94381 37 h-index	76872 74 g-index
112 all docs	112 docs citations	112 times ranked	4577 citing authors

#	Article	IF	Citations
1	Axion dark matter experiment: Run 1B analysis details. Physical Review D, 2021, 103, .	1.6	38
2	Axion Dark Matter Experiment: Detailed designÂand operations. Review of Scientific Instruments, 2021, 92, 124502.	0.6	18
3	Far-infrared absorption of undoped and Br-doped carbon nanofiber powder in stacked-cup cone configuration. Physical Review B, 2020, 102, .	1.1	1
4	ADMX SLIC: Results from a Superconducting LC Circuit Investigating Cold Axions. Physical Review Letters, 2020, 124, 241101.	2.9	63
5	Extended Search for the Invisible Axion with the Axion Dark Matter Experiment. Physical Review Letters, 2020, 124, 101303.	2.9	275
6	Search for 5â€“9 Î¼eV Axions with ADMX Four-Cavity Array. Springer Proceedings in Physics, 2020, , 53-62.	0.1	4
7	Coherent detection of ultraweak electromagnetic fields. Physical Review D, 2019, 99, .	1.6	9
8	Search for Invisible Axion Dark Matter with the Axion Dark Matter Experiment. Physical Review Letters, 2018, 120, 151301.	2.9	384
9	Piezoelectrically Tuned Multimode Cavity Search for Axion Dark Matter. Physical Review Letters, 2018, 121, 261302.	2.9	91
10	Symmetry Breaking in Haloscope Microwave Cavities. Springer Proceedings in Physics, 2018, , 21-29.	0.1	1
11	Small optic suspensions for Advanced LIGO input optics and other precision optical experiments. Review of Scientific Instruments, 2016, 87, 114504.	0.6	3
12	The advanced LIGO input optics. Review of Scientific Instruments, 2016, 87, 014502.	0.6	32
13	Modulation sensitive search for nonvirialized dark-matter axions. Physical Review D, 2016, 94, .	1.6	18
14	Heterodyne laser frequency stabilization for long baseline optical interferometry in space-based gravitational wave detectors. Physical Review D, 2015, 92, .	1.6	9
15	Cavity design for high-frequency axion dark matter detectors. Review of Scientific Instruments, 2015, 86, 123305.	0.6	31
16	In situ characterization of the thermal state of resonant optical interferometers via tracking of their higher-order mode resonances. Classical and Quantum Gravity, 2015, 32, 135018.	1.5	5
17	Unusual Shubnikovâ€“de Haas oscillations in BiTeCl. Physical Review B, 2014, 90, .	1.1	15
18	Micromachined Air-Lifted Pillar Arrays for Terahertz Devices. IEEE Electron Device Letters, 2014, 35, 470-472.	2.2	1

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19	Optical properties of amorphous indium zinc oxide thin films synthesized by pulsed laser deposition. Applied Surface Science, 2014, 306, 52-55.	3.1	15
20	Proposal for Axion Dark Matter Detection Using an<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>L</mml:mi><mml:mi>C</mml:mi></mml:math>Circuit. Physical Review Letters, 2014, 112, 131301.	2.9	153
21	Infrared optical properties of amorphous and nanocrystalline Ta2O5 thin films. Journal of Applied Physics, 2013, 114, .	1.1	111
22	Quantum oscillations and optical conductivity in Rashba spin-splitting BiTeI. Physical Review B, 2013, 87, .	1.1	63
23	Bulk Fermi surface and electronic properties of Cu0.07Bi2Se3. Physical Review B, 2013, 87, .	1.1	14
24	Effect of a magnetic field on the quasiparticle recombination in superconductors. Physical Review B, 2013, 87, .	1.1	6
25	Infrared vortex-state electrodynamics in type-II superconducting thin films. Physical Review B, 2013, 87, .	1.1	8
26	Infrared phonon modes in multiferroic single-crystal FeTe<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>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>5</mml:mn></mml:msub></mml:math>Br. Physical Review B, 2013, 87, .	1.1	31
27	High-vacuum-compatible high-power Faraday isolators for gravitational-wave interferometers. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1784.	0.9	25
28	Infrared phonon anomaly and magnetic excitations in single-crystal Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>Bi(SeO<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mml:	1.1	60
29	Thermal effects in the Input Optics of the Enhanced Laser Interferometer Gravitational-Wave Observatory interferometers. Review of Scientific Instruments, 2012, 83, 033109.	0.6	24
30	Complementary techniques for probing terahertz magnetic excitations in Cu<inf>3</inf>Bi(SeO<inf>3</inf>)<inf>2</inf>O<inf>2</inf>Cl. , 2012, , .		0
31	Ultrapure multilayer graphene in bromine-intercalated graphite. Physical Review B, 2011, 84, .	1.1	16
32	In situmeasurements of the optical absorption of dioxythiophene-based conjugated polymers. Physical Review B, 2011, 83, .	1.1	20
33	Search for nonvirialized axionic dark matter. Physical Review D, 2011, 84, .	1.6	71
34	SQUID-Based Microwave Cavity Search for Dark-Matter Axions. Physical Review Letters, 2010, 104, 041301.	2.9	529
35	Raman study of phonon modes in bismuth pyrochlores. Physical Review B, 2010, 82, .	1.1	87
36	Search for Hidden Sector Photons with the ADMX Detector. Physical Review Letters, 2010, 105, 171801.	2.9	68

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37	Resonantly-enhanced axion-photon regeneration. , 2010, , .		2
38	Supermetallic conductivity in bromine-intercalated graphite. Physical Review B, 2010, 81, .	1.1	76
39	Search for Chameleon Scalar Fields with the Axion Dark Matter Experiment. Physical Review Letters, 2010, 105, 051801.	2.9	40
40	Magnetodielectric coupling of infrared phonons in single-crystal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Cu</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msu Physical Review B, 2010, 82, .	1.1	52
41	Method to determine the absorptance of thin films for photovoltaic technology. , 2010, , .		1
42	Generation of Second and Fourth Harmonic Signals Using a Balanced Colpitts Oscillator With a Patch Antenna. IEEE Microwave and Wireless Components Letters, 2010, 20, 554-556.	2.0	3
43	Detailed design of a resonantly enhanced axion-photon regeneration experiment. Physical Review D, 2009, 80, .	1.6	38
44	Implementation of armlocking with a delay of 1 second in the presence of Doppler shifts. Journal of Physics: Conference Series, 2009, 154, 012024.	0.3	10
45	Wideâ€range optical spectra of carbon nanotubes: a comparative study. Physica Status Solidi (B): Basic Research, 2008, 245, 2229-2232.	0.7	12
46	Resonantly Enhanced Axion-Photon Regeneration. Physical Review Letters, 2007, 98, .	2.9	91
47	Effects of Scattering on THz Spectra of Granular Solids. Journal of Infrared, Millimeter and Terahertz Waves, 2007, 28, 969-978.	0.6	53
48	High resolution search for dark-matter axions. Physical Review D, 2006, 74, .	1.6	147
49	Magneto-Optical Response of Electron Doped Cuprates Pr2â^'xCexCuO4. AIP Conference Proceedings, 2006, , .	0.3	0
50	Calculation of optical constants from carbon nanotube transmission spectra. Physica Status Solidi (B): Basic Research, 2006, 243, 3485-3488.	0.7	18
51	Polarization-dependent optical reflectivity in magnetically oriented carbon nanotube networks. Physica Status Solidi (B): Basic Research, 2006, 243, 3126-3129.	0.7	3
52	The LISA benchtop simulator at the University of Florida. Classical and Quantum Gravity, 2006, 23, S751-S760.	1.5	12
53	Results of a Search for Cold Flows of Dark Matter Axions. Physical Review Letters, 2005, 95, 091304.	2.9	51
54	Phase Effects in the Diffraction of Light: Beyond the Grating Equation. Physical Review Letters, 2005, 95, 013901.	2.9	51

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55	Energy Transmission by Photon Tunneling in Multilayer Structures Including Negative Index Materials. Journal of Heat Transfer, 2005, 127, 1046-1052.	1.2	18
56	Wide Range Optical Studies on Transparent SWNT Films. AIP Conference Proceedings, 2004, , .	0.3	1
57	Optical characterization of2kFbond-charge-density wave in quasi-one-dimensional34-filled(EDOâˆ’TTF)2X(X=PF6andAsF6). Physical Review B, 2004, 70, .	1.1	61
58	Improved rf cavity search for halo axions. Physical Review D, 2004, 69, .	1.6	153
59	Terahertz study of 1,3,5-trinitro-s-triazine by time-domain and Fourier transform infrared spectroscopy. Applied Physics Letters, 2004, 85, 5535-5537.	1.5	120
60	Linewidth-broadened Fabryâ€“Perot cavities within future gravitational wave detectors. Classical and Quantum Gravity, 2004, 21, S1031-S1036.	1.5	28
61	Effect of Metal Substitution in BSCCO Ceramic Superconductors. Journal of Infrared, Millimeter and Terahertz Waves, 2004, 25, 1423-1430.	0.6	2
62	Microporous Patterned Electrodes for Color-Matched Electrochromic Polymer Displays. Chemistry of Materials, 2004, 16, 2386-2393.	3.2	79
63	Dielectric selective mirror for intracavity wavelength selection in far-infraredp-Ge lasers. Journal of Applied Physics, 2003, 94, 5474-5478.	1.1	7
64	Dual-recycled cavity-enhanced Michelson interferometer for gravitational-wave detection. Applied Optics, 2003, 42, 1257.	2.1	20
65	COEXISTENCE OF FERROMAGNETISM AND HIGH-TEMPERATURE SUPERCONDUCTIVITY IN Dy-DOPED BiPbSrCaCuO. Surface Review and Letters, 2002, 09, 1109-1112.	0.5	5
66	Experimental Constraints on the Axion Dark Matter Halo Density. Astrophysical Journal, 2002, 571, L27-L30.	1.6	71
67	Far-infrared pump-probe measurement of an organic semiconductor Î²'-(BEDT-TTF)2ICl2using synchrotron radiation source. Ferroelectrics, 2001, 249, 31-39.	0.3	2
68	Combined Visible and Infrared Electrochromism Using Dual Polymer Devices. Advanced Materials, 2001, 13, 634-637.	11.1	171
69	Large-scale microwave cavity search for dark-matter axions. Physical Review D, 2001, 64, .	1.6	154
70	Far-Infrared gaps in single-wall carbon nanotubes. Ferroelectrics, 2001, 249, 145-154.	0.3	4
71	Polarized spectroscopy of aligned single-wall carbon nanotubes. Physical Review B, 2000, 62, R13310-R13313.	1.1	138
72	Fabry-Perot Resonators Built With YBa2Cu3O7âˆ’Î´ Films on Si Substrates. Journal of Heat Transfer, 2000, 122, 785-791.	1.2	7

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73	Doping-induced change of optical properties in underdoped cuprate superconductors. Journal of Physics Condensed Matter, 1999, 11, 239-264.	0.7	63
74	Physical and dielectric properties of Bi4â^'xRxSr3Ca3Cu2O10 glasses (x = 0.5 and R = Ag, Ni). Journal of Materials Science, 1999, 34, 3853-3858.	1.7	4
75	Far-Infrared Transmittance and Reflectance of YBa2Cu3O7-Î´ Films on Si Substrates. Journal of Heat Transfer, 1999, 121, 844-851.	1.2	17
76	Far-infrared study of superconducting Tl2Ba2CaCu2O8. Physica B: Condensed Matter, 1998, 244, 27-32.	1.3	3
77	Results from a High-Sensitivity Search for Cosmic Axions. Physical Review Letters, 1998, 80, 2043-2046.	2.9	162
78	INFRARED PROPERTIES OF HIGH Tc SUPERCONDUCTORS. , 1998, , 339-407.		18
79	Experimental Investigation of Symmetry Reduction and Electronâ€"Molecular Vibration Coupling in Various RbC60Phases. Fullerenes, Nanotubes, and Carbon Nanostructures, 1997, 5, 465-478.	0.6	8
80	Limits for Metallic Conductivity in Conducting Polymers. Physical Review Letters, 1997, 78, 3915-3918.	2.9	182
81	Optical Evidence for the Dynamic Jahn-Teller Effect in Nd0.7Sr0.3MnO3. Physical Review Letters, 1996, 77, 2081-2084.	2.9	195
82	Electrical and infrared study of Bi2Sr2Ca1Cu2O8 in semiconducting, superconducting ceramic and superconducting glass ceramic state. Journal of Infrared, Millimeter and Terahertz Waves, 1996, 17, 1651-1660.	0.6	0
83	Infrared studies of the phase transition in TEA(TCNQ)2. Advanced Materials for Optics and Electronics, 1996, 6, 353-357.	0.5	2
84	Optical Spectra and Neutral Soliton in Segmented Polyacetylene. Molecular Crystals and Liquid Crystals, 1996, 280, 163-168.	0.3	0
85	The far-infrared conductivity of oxide superconductors. Ferroelectrics, 1996, 177, 83-94.	0.3	4
86	Spectroscopic Investigation of Highly Oriented Polyacetylene. Molecular Crystals and Liquid Crystals, 1996, 280, 169-174.	0.3	2
87	In-Plane Anisotropy of the Penetration Depth inYBa2Cu3O7â^'xand YBa2Cu4O8Superconductors. Physical Review Letters, 1995, 74, 598-601.	2.9	377
88	Luminescent polymers with discrete emitter units. Journal of Polymer Science, Part B: Polymer Physics, 1994, 32, 2395-2404.	2.4	27
89	a-b plane anisotropy of single-domain crystals of Bi2Sr2CaCu2O8. European Physical Journal B, 1994, 94, 255-259.	0.6	12
90	Raman Scattering in Singleâ€Crystal GdBa₂ Cu₃ O_{7â^'Î´}. Physica Status Solidi (B): Basic Research, 1993, 177, K37.	0.7	1

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91	Infrared properties of epitaxialLa2â^'xSrxCuO4thin films in the normal and superconducting states. Physical Review B, 1993, 47, 1036-1052.	1.1	112
92	OPTICAL PROPERTIES OF HIGH-TEMPERATURE SUPERCONDUCTORS. , 1992, , 363-469.		77
93	Vibrational spectra of some binary semiconducting oxide glasses. Journal of Materials Science, 1990, 25, 511-513.	1.7	0
94	Results from a search for cosmic axions. Physical Review D, 1990, 42, 1297-1300.	1.6	239
95	Cavity design for a cosmic axion detector. Review of Scientific Instruments, 1990, 61, 1076-1085.	0.6	47
96	Optical Reflectance Studies on YBa2Cu3O7â^'x and Related Compounds. Materials Research Society Symposia Proceedings, 1987, 99, 777.	0.1	2
97	Far-Infrared Properties of ab plane oriented YBa2Cu3O7-Î´. Materials Research Society Symposia Proceedings, 1987, 99, 227.	0.1	0
98	Far-infrared conductivity of yba₂Cu₃O_{7â€“y}. , 1987, , .		0
99	Phonon Combination Bands in the Farâ€Infrared Spectrum of K_{0.5}Rb_{0.5}I Mixed Crystals. Physica Status Solidi (B): Basic Research, 1987, 139, K81.	0.7	1
100	Long Wavelength Optical Phonons in Mixed Alkali Halide Powder Crystals. Physica Status Solidi (B): Basic Research, 1986, 137, K9.	0.7	1
101	Far infrared study of optical phonons in K1?xRbxI mixed crystals. Journal of Infrared, Millimeter and Terahertz Waves, 1986, 7, 1805-1811.	0.6	2
102	Farâ€Infrared Dielectric Function of Zincblende ZnS. Physica Status Solidi (B): Basic Research, 1985, 128, 49-52.	0.7	10
103	Optical Properties of Heavily-Doped Polyacetylene. Molecular Crystals and Liquid Crystals, 1985, 117, 267-274.	0.9	27
104	Infrared Absorption in Quinolinium Di-Tetracyanoquinodimethanide. Molecular Crystals and Liquid Crystals, 1985, 120, 59-62.	0.9	10
105	Density of States and Hopping Conductivity in Nearly Metallic Polyacetylene. Molecular Crystals and Liquid Crystals, 1985, 117, 147-154.	0.9	32
106	Electronic Properties of (NMP)X(PHEN)1-x(TCNQ). Molecular Crystals and Liquid Crystals, 1985, 120, 43-49.	0.9	13
107	Nearly Metallic [CH(1₃)_y]_x - Importance of Solitons, Crystal Order, Hopping and Band Conduction. Molecular Crystals and Liquid Crystals, 1984, 105, 191-202.	0.9	6
108	The source of a problem with rapid-scanning fourier transform spectroscopy. , 1983, , .		0