

# David B Tanner

## List of Publications by Year in descending order

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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	SQUID-Based Microwave Cavity Search for Dark-Matter Axions. Physical Review Letters, 2010, 104, 041301.	2.9	529
2	Search for Invisible Axion Dark Matter with the Axion Dark Matter Experiment. Physical Review Letters, 2018, 120, 151301.	2.9	384
3	In-Plane Anisotropy of the Penetration Depth in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ and $\text{YBa}_2\text{Cu}_4\text{O}_8$ Superconductors. Physical Review Letters, 1995, 74, 598-601.	2.9	377
4	Extended Search for the Invisible Axion with the Axion Dark Matter Experiment. Physical Review Letters, 2020, 124, 101303.	2.9	275
5	Results from a search for cosmic axions. Physical Review D, 1990, 42, 1297-1300.	1.6	239
6	Optical Evidence for the Dynamic Jahn-Teller Effect in $\text{Nd}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ . Physical Review Letters, 1996, 77, 2081-2084.	2.9	195
7	Limits for Metallic Conductivity in Conducting Polymers. Physical Review Letters, 1997, 78, 3915-3918.	2.9	182
8	Combined Visible and Infrared Electrochromism Using Dual Polymer Devices. Advanced Materials, 2001, 13, 634-637.	11.1	171
9	Results from a High-Sensitivity Search for Cosmic Axions. Physical Review Letters, 1998, 80, 2043-2046.	2.9	162
10	Large-scale microwave cavity search for dark-matter axions. Physical Review D, 2001, 64, .	1.6	154
11	Improved rf cavity search for halo axions. Physical Review D, 2004, 69, .	1.6	153
12	Proposal for Axion Dark Matter Detection Using an $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mi} \rangle \text{L} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{C} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle \text{Circuit}$ . Physical Review Letters, 2014, 112, 131301.	2.9	153
13	High resolution search for dark-matter axions. Physical Review D, 2006, 74, .	1.6	147
14	Polarized spectroscopy of aligned single-wall carbon nanotubes. Physical Review B, 2000, 62, R13310-R13313.	1.1	138
15	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
16	Infrared properties of epitaxial $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ thin films in the normal and superconducting states. Physical Review B, 1993, 47, 1036-1052.	1.1	112
17	Infrared optical properties of amorphous and nanocrystalline $\text{Ta}_2\text{O}_5$ thin films. Journal of Applied Physics, 2013, 114, .	1.1	111
18	Resonantly Enhanced Axion-Photon Regeneration. Physical Review Letters, 2007, 98, .	2.9	91

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19	Piezoelectrically Tuned Multimode Cavity Search for Axion Dark Matter. <i>Physical Review Letters</i> , 2018, 121, 261302.	2.9	91
20	Raman study of phonon modes in bismuth pyrochlores. <i>Physical Review B</i> , 2010, 82, .	1.1	87
21	Microporous Patterned Electrodes for Color-Matched Electrochromic Polymer Displays. <i>Chemistry of Materials</i> , 2004, 16, 2386-2393.	3.2	79
22	OPTICAL PROPERTIES OF HIGH-TEMPERATURE SUPERCONDUCTORS. , 1992, , 363-469.		77
23	Supermetallic conductivity in bromine-intercalated graphite. <i>Physical Review B</i> , 2010, 81, .	1.1	76
24	Experimental Constraints on the Axion Dark Matter Halo Density. <i>Astrophysical Journal</i> , 2002, 571, L27-L30.	1.6	71
25	Search for nonvirialized axionic dark matter. <i>Physical Review D</i> , 2011, 84, .	1.6	71
26	Search for Hidden Sector Photons with the ADMX Detector. <i>Physical Review Letters</i> , 2010, 105, 171801.	2.9	68
27	Doping-induced change of optical properties in underdoped cuprate superconductors. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 239-264.	0.7	63
28	Quantum oscillations and optical conductivity in Rashba spin-splitting BiTeI. <i>Physical Review B</i> , 2013, 87, .	1.1	63
29	ADMX SLIC: Results from a Superconducting <i>LC</i> Circuit Investigating Cold Axions. <i>Physical Review Letters</i> , 2020, 124, 241101.	2.9	63
30	Optical characterization of $2k_F$ bond-charge-density wave in quasi-one-dimensional $(\text{EDO}^{\sim}\text{TTF})_2\text{X}$ ( $\text{X}=\text{PF}_6$ and $\text{AsF}_6$ ). <i>Physical Review B</i> , 2004, 70, .	1.1	61
31	Infrared phonon anomaly and magnetic excitations in single-crystal $\text{Cu}_x\text{Mn}_{1-x}\text{In}$ $\text{Bi}(\text{SeO})_3$	1.1	60
32	Effects of Scattering on THz Spectra of Granular Solids. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2007, 28, 969-978.	0.6	53
33	Magnetodielectric coupling of infrared phonons in single-crystal $\text{Cu}_x\text{Mn}_{1-x}\text{In}$ $\text{Cu}_2\text{O}$ <i>Physical Review B</i> , 2010, 82, .	1.1	52
34	Results of a Search for Cold Flows of Dark Matter Axions. <i>Physical Review Letters</i> , 2005, 95, 091304.	2.9	51
35	Phase Effects in the Diffraction of Light: Beyond the Grating Equation. <i>Physical Review Letters</i> , 2005, 95, 013901.	2.9	51
36	Cavity design for a cosmic axion detector. <i>Review of Scientific Instruments</i> , 1990, 61, 1076-1085.	0.6	47

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37	Search for Chameleon Scalar Fields with the Axion Dark Matter Experiment. Physical Review Letters, 2010, 105, 051801.	2.9	40
38	Detailed design of a resonantly enhanced axion-photon regeneration experiment. Physical Review D, 2009, 80, .	1.6	38
39	Axion dark matter experiment: Run 1B analysis details. Physical Review D, 2021, 103, .	1.6	38
40	Density of States and Hopping Conductivity in Nearly Metallic Polyacetylene. Molecular Crystals and Liquid Crystals, 1985, 117, 147-154.	0.9	32
41	The advanced LIGO input optics. Review of Scientific Instruments, 2016, 87, 014502.	0.6	32
42	Infrared phonon modes in multiferroic single-crystal FeTe $\times$ O $\times$ Br. Physical Review B, 2013, 87, .	1.1	31
43	Cavity design for high-frequency axion dark matter detectors. Review of Scientific Instruments, 2015, 86, 123305.	0.6	31
44	Linewidth-broadened Fabry-Perot cavities within future gravitational wave detectors. Classical and Quantum Gravity, 2004, 21, S1031-S1036.	1.5	28
45	Optical Properties of Heavily-Doped Polyacetylene. Molecular Crystals and Liquid Crystals, 1985, 117, 267-274.	0.9	27
46	Luminescent polymers with discrete emitter units. Journal of Polymer Science, Part B: Polymer Physics, 1994, 32, 2395-2404.	2.4	27
47	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
48	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
49	Dual-recycled cavity-enhanced Michelson interferometer for gravitational-wave detection. Applied Optics, 2003, 42, 1257.	2.1	20
50	<i>In situ</i> measurements of the optical absorption of dioxathiophene-based conjugated polymers. Physical Review B, 2011, 83, .	1.1	20
51	INFRARED PROPERTIES OF HIGH $T_c$ SUPERCONDUCTORS. , 1998, , 339-407.		18
52	Energy Transmission by Photon Tunneling in Multilayer Structures Including Negative Index Materials. Journal of Heat Transfer, 2005, 127, 1046-1052.	1.2	18
53	Calculation of optical constants from carbon nanotube transmission spectra. Physica Status Solidi (B): Basic Research, 2006, 243, 3485-3488.	0.7	18
54	Modulation sensitive search for nonvirialized dark-matter axions. Physical Review D, 2016, 94, .	1.6	18

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55	Axion Dark Matter Experiment: Detailed design and operations. <i>Review of Scientific Instruments</i> , 2021, 92, 124502.	0.6	18
56	Far-Infrared Transmittance and Reflectance of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> Films on Si Substrates. <i>Journal of Heat Transfer</i> , 1999, 121, 844-851.	1.2	17
57	Ultrapure multilayer graphene in bromine-intercalated graphite. <i>Physical Review B</i> , 2011, 84, .	1.1	16
58	Unusual Shubnikov-de Haas oscillations in BiTeCl. <i>Physical Review B</i> , 2014, 90, .	1.1	15
59	Optical properties of amorphous indium zinc oxide thin films synthesized by pulsed laser deposition. <i>Applied Surface Science</i> , 2014, 306, 52-55.	3.1	15
60	Bulk Fermi surface and electronic properties of Cu <sub>0.07</sub> Bi <sub>2</sub> Se <sub>3</sub> . <i>Physical Review B</i> , 2013, 87, .	1.1	14
61	Electronic Properties of (NMP) <sub>x</sub> (PHEN) <sub>1-x</sub> (TCNQ). <i>Molecular Crystals and Liquid Crystals</i> , 1985, 120, 43-49.	0.9	13
62	a-b plane anisotropy of single-domain crystals of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> . <i>European Physical Journal B</i> , 1994, 94, 255-259.	0.6	12
63	The LISA benchtop simulator at the University of Florida. <i>Classical and Quantum Gravity</i> , 2006, 23, S751-S760.	1.5	12
64	Wide-range optical spectra of carbon nanotubes: a comparative study. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2229-2232.	0.7	12
65	Far-Infrared Dielectric Function of Zincblende ZnS. <i>Physica Status Solidi (B): Basic Research</i> , 1985, 128, 49-52.	0.7	10
66	Infrared Absorption in Quinolinium Di-Tetracyanoquinodimethanide. <i>Molecular Crystals and Liquid Crystals</i> , 1985, 120, 59-62.	0.9	10
67	Implementation of armlocking with a delay of 1 second in the presence of Doppler shifts. <i>Journal of Physics: Conference Series</i> , 2009, 154, 012024.	0.3	10
68	Heterodyne laser frequency stabilization for long baseline optical interferometry in space-based gravitational wave detectors. <i>Physical Review D</i> , 2015, 92, .	1.6	9
69	Coherent detection of ultraweak electromagnetic fields. <i>Physical Review D</i> , 2019, 99, .	1.6	9
70	Experimental Investigation of Symmetry Reduction and Electron-Molecular Vibration Coupling in Various RbC <sub>60</sub> Phases. <i>Fullerenes, Nanotubes, and Carbon Nanostructures</i> , 1997, 5, 465-478.	0.6	8
71	Infrared vortex-state electrodynamics in type-II superconducting thin films. <i>Physical Review B</i> , 2013, 87, .	1.1	8
72	Fabry-Perot Resonators Built With YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> Films on Si Substrates. <i>Journal of Heat Transfer</i> , 2000, 122, 785-791.	1.2	7

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73	Dielectric selective mirror for intracavity wavelength selection in far-infrared p-Ge lasers. Journal of Applied Physics, 2003, 94, 5474-5478.	1.1	7
74	Nearly Metallic $[\text{CH}(\text{C}_3)_y\text{C}_x]$ - Importance of Solitons, Crystal Order, Hopping and Band Conduction. Molecular Crystals and Liquid Crystals, 1984, 105, 191-202.	0.9	6
75	Effect of a magnetic field on the quasiparticle recombination in superconductors. Physical Review B, 2013, 87, .	1.1	6
76	COEXISTENCE OF FERROMAGNETISM AND HIGH-TEMPERATURE SUPERCONDUCTIVITY IN Dy-DOPED $\text{BiPbSrCaCuO}$ . Surface Review and Letters, 2002, 09, 1109-1112.	0.5	5
77	<i>In situ</i> 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
78	The far-infrared conductivity of oxide superconductors. Ferroelectrics, 1996, 177, 83-94.	0.3	4
79	Physical and dielectric properties of $\text{Bi}_{4-x}\text{R}_x\text{Sr}_3\text{Ca}_3\text{Cu}_2\text{O}_{10}$ glasses ( $x = 0.5$ and $R = \text{Ag, Ni}$ ). Journal of Materials Science, 1999, 34, 3853-3858.	1.7	4
80	Far-Infrared gaps in single-wall carbon nanotubes. Ferroelectrics, 2001, 249, 145-154.	0.3	4
81	Search for $5\text{eV}$ Axions with ADMX Four-Cavity Array. Springer Proceedings in Physics, 2020, , 53-62.	0.1	4
82	Far-infrared study of superconducting $\text{Tl}_2\text{Ba}_2\text{CaCu}_2\text{O}_8$ . Physica B: Condensed Matter, 1998, 244, 27-32.	1.3	3
83	Polarization-dependent optical reflectivity in magnetically oriented carbon nanotube networks. Physica Status Solidi (B): Basic Research, 2006, 243, 3126-3129.	0.7	3
84	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
85	Small optic suspensions for Advanced LIGO input optics and other precision optical experiments. Review of Scientific Instruments, 2016, 87, 114504.	0.6	3
86	Far infrared study of optical phonons in $\text{K}_1\text{Rb}_x$ mixed crystals. Journal of Infrared, Millimeter and Terahertz Waves, 1986, 7, 1805-1811.	0.6	2
87	Optical Reflectance Studies on $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ and Related Compounds. Materials Research Society Symposia Proceedings, 1987, 99, 777.	0.1	2
88	Infrared studies of the phase transition in $\text{TEA}(\text{TCNQ})_2$ . Advanced Materials for Optics and Electronics, 1996, 6, 353-357.	0.5	2
89	Spectroscopic Investigation of Highly Oriented Polyacetylene. Molecular Crystals and Liquid Crystals, 1996, 280, 169-174.	0.3	2
90	Far-infrared pump-probe measurement of an organic semiconductor $\hat{\Gamma}^2$ -(BEDT-TTF) $_2\text{Cl}_2$ using synchrotron radiation source. Ferroelectrics, 2001, 249, 31-39.	0.3	2

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91	Effect of Metal Substitution in BSCCO Ceramic Superconductors. Journal of Infrared, Millimeter and Terahertz Waves, 2004, 25, 1423-1430.	0.6	2
92	Resonantly-enhanced axion-photon regeneration. , 2010, , .		2
93	Long Wavelength Optical Phonons in Mixed Alkali Halide Powder Crystals. Physica Status Solidi (B): Basic Research, 1986, 137, K9.	0.7	1
94	Phonon Combination Bands in the Far-Infrared Spectrum of $K_{0.5}Rb_{0.5}$ Mixed Crystals. Physica Status Solidi (B): Basic Research, 1987, 139, K81.	0.7	1
95	Raman Scattering in Single-Crystal $GdBa_2Cu_3O_{7-\delta}$ . Physica Status Solidi (B): Basic Research, 1993, 177, K37.	0.7	1
96	Wide Range Optical Studies on Transparent SWNT Films. AIP Conference Proceedings, 2004, , .	0.3	1
97	Method to determine the absorptance of thin films for photovoltaic technology. , 2010, , .		1
98	Micromachined Air-Lifted Pillar Arrays for Terahertz Devices. IEEE Electron Device Letters, 2014, 35, 470-472.	2.2	1
99	Far-infrared absorption of undoped and Br-doped carbon nanofiber powder in stacked-cup cone configuration. Physical Review B, 2020, 102, .	1.1	1
100	Symmetry Breaking in Haloscope Microwave Cavities. Springer Proceedings in Physics, 2018, , 21-29.	0.1	1
101	The source of a problem with rapid-scanning fourier transform spectroscopy. , 1983, , .		0
102	Far-Infrared Properties of ab plane oriented $YBa_2Cu_3O_{7-\delta}$ . Materials Research Society Symposia Proceedings, 1987, 99, 227.	0.1	0
103	Far-infrared conductivity of $YBa_2Cu_3O_{7-\delta}$ . , 1987, , .		0
104	Vibrational spectra of some binary semiconducting oxide glasses. Journal of Materials Science, 1990, 25, 511-513.	1.7	0
105	Electrical and infrared study of $Bi_2Sr_2Ca_1Cu_2O_8$ in semiconducting, superconducting ceramic and superconducting glass ceramic state. Journal of Infrared, Millimeter and Terahertz Waves, 1996, 17, 1651-1660.	0.6	0
106	Optical Spectra and Neutral Soliton in Segmented Polyacetylene. Molecular Crystals and Liquid Crystals, 1996, 280, 163-168.	0.3	0
107	Magneto-Optical Response of Electron Doped Cuprates $Pr_{2-x}Ce_xCuO_4$ . AIP Conference Proceedings, 2006, , .	0.3	0
108	Complementary techniques for probing terahertz magnetic excitations in $Cu_3Bi(SeO_3)_2Cl$ . , 2012, , .		0