

# David B Tanner

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8110072/publications.pdf>

Version: 2024-02-01

108  
papers

5,700  
citations

94433

37  
h-index

76900

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. <i>Physical Review D</i> , 2021, 103, .	4.7	38
2	Axion Dark Matter Experiment: Detailed design and operations. <i>Review of Scientific Instruments</i> , 2021, 92, 124502.	1.3	18
3	Far-infrared absorption of undoped and Br-doped carbon nanofiber powder in stacked-cup cone configuration. <i>Physical Review B</i> , 2020, 102, .	3.2	1
4	ADMX SLIC: Results from a Superconducting LC Circuit Investigating Cold Axions. <i>Physical Review Letters</i> , 2020, 124, 241101.	7.8	63
5	Extended Search for the Invisible Axion with the Axion Dark Matter Experiment. <i>Physical Review Letters</i> , 2020, 124, 101303.	7.8	275
6	Search for $5 \times 10^{-9} \leq m_a \leq 4 \text{ eV}$ Axions with ADMX Four-Cavity Array. <i>Springer Proceedings in Physics</i> , 2020, , 53-62.	0.2	4
7	Coherent detection of ultraweak electromagnetic fields. <i>Physical Review D</i> , 2019, 99, .	4.7	9
8	Search for Invisible Axion Dark Matter with the Axion Dark Matter Experiment. <i>Physical Review Letters</i> , 2018, 120, 151301.	7.8	384
9	Piezoelectrically Tuned Multimode Cavity Search for Axion Dark Matter. <i>Physical Review Letters</i> , 2018, 121, 261302.	7.8	91
10	Symmetry Breaking in Haloscope Microwave Cavities. <i>Springer Proceedings in Physics</i> , 2018, , 21-29.	0.2	1
11	Small optic suspensions for Advanced LIGO input optics and other precision optical experiments. <i>Review of Scientific Instruments</i> , 2016, 87, 114504.	1.3	3
12	The advanced LIGO input optics. <i>Review of Scientific Instruments</i> , 2016, 87, 014502.	1.3	32
13	Modulation sensitive search for nonvirialized dark-matter axions. <i>Physical Review D</i> , 2016, 94, .	4.7	18
14	Heterodyne laser frequency stabilization for long baseline optical interferometry in space-based gravitational wave detectors. <i>Physical Review D</i> , 2015, 92, .	4.7	9
15	Cavity design for high-frequency axion dark matter detectors. <i>Review of Scientific Instruments</i> , 2015, 86, 123305.	1.3	31
16	In situ characterization of the thermal state of resonant optical interferometers via tracking of their higher-order mode resonances. <i>Classical and Quantum Gravity</i> , 2015, 32, 135018.	4.0	5
17	Unusual Shubnikov-de Haas oscillations in BiTeCl. <i>Physical Review B</i> , 2014, 90, .	3.2	15
18	Micromachined Air-Lifted Pillar Arrays for Terahertz Devices. <i>IEEE Electron Device Letters</i> , 2014, 35, 470-472.	3.9	1

#	ARTICLE	IF	CITATIONS
19	Optical properties of amorphous indium zinc oxide thin films synthesized by pulsed laser deposition. Applied Surface Science, 2014, 306, 52-55.	6.1	15
20	Proposal for Axion Dark Matter Detection Using an $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle \text{L} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{C} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Circuit. Physical Review Letters, 2014, 112, 131301.	7.8	153
21	Infrared optical properties of amorphous and nanocrystalline Ta2O5 thin films. Journal of Applied Physics, 2013, 114, .	2.5	111
22	Quantum oscillations and optical conductivity in Rashba spin-splitting BiTel. Physical Review B, 2013, 87, .	3.2	63
23	Bulk Fermi surface and electronic properties of Cu0.07Bi2Se3. Physical Review B, 2013, 87, .	3.2	14
24	Effect of a magnetic field on the quasiparticle recombination in superconductors. Physical Review B, 2013, 87, .	3.2	6
25	Infrared vortex-state electrodynamics in type-II superconducting thin films. Physical Review B, 2013, 87, .	3.2	8
26	Infrared phonon modes in multiferroic single-crystal FeTe $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mn} \rangle 5 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ O $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mn} \rangle 5 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ Br. Physical Review B, 2013, 87, .	3.2	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	2.1	25
28	Infrared phonon anomaly and magnetic excitations in single-crystal Cu $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ Bi(SeO $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline")	3.2	60
29	Thermal effects in the Input Optics of the Enhanced Laser Interferometer Gravitational-Wave Observatory interferometers. Review of Scientific Instruments, 2012, 83, 033109.	1.3	24
30	Complementary techniques for probing terahertz magnetic excitations in Cu $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ Bi(SeO $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline")		0
31	Ultrapure multilayer graphene in bromine-intercalated graphite. Physical Review B, 2011, 84, .	3.2	16
32	<i>In situ</i> measurements of the optical absorption of dioxathiophene-based conjugated polymers. Physical Review B, 2011, 83, .	3.2	20
33	Search for nonvirialized axionic dark matter. Physical Review D, 2011, 84, .	4.7	71
34	SQUID-Based Microwave Cavity Search for Dark-Matter Axions. Physical Review Letters, 2010, 104, 041301.	7.8	529
35	Raman study of phonon modes in bismuth pyrochlores. Physical Review B, 2010, 82, .	3.2	87
36	Search for Hidden Sector Photons with the ADMX Detector. Physical Review Letters, 2010, 105, 171801.	7.8	68

#	ARTICLE	IF	CITATIONS
37	Resonantly-enhanced axion-photon regeneration. , 2010, , .		2
38	Supermetallic conductivity in bromine-intercalated graphite. Physical Review B, 2010, 81, .	3.2	76
39	Search for Chameleon Scalar Fields with the Axion Dark Matter Experiment. Physical Review Letters, 2010, 105, 051801.	7.8	40
40	Magnetodielectric coupling of infrared phonons in single-crystal $\text{Cu}$ Physical Review B, 2010, 82, .	3.2	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.	3.2	3
43	Detailed design of a resonantly enhanced axion-photon regeneration experiment. Physical Review D, 2009, 80, .	4.7	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.	0.4	10
45	Wide-range optical spectra of carbon nanotubes: a comparative study. Physica Status Solidi (B): Basic Research, 2008, 245, 2229-2232.	1.5	12
46	Resonantly Enhanced Axion-Photon Regeneration. Physical Review Letters, 2007, 98, .	7.8	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, .	4.7	147
49	Magneto-Optical Response of Electron Doped Cuprates $\text{Pr}_{2-x}\text{Ce}_x\text{CuO}_4$ . AIP Conference Proceedings, 2006, , .	0.4	0
50	Calculation of optical constants from carbon nanotube transmission spectra. Physica Status Solidi (B): Basic Research, 2006, 243, 3485-3488.	1.5	18
51	Polarization-dependent optical reflectivity in magnetically oriented carbon nanotube networks. Physica Status Solidi (B): Basic Research, 2006, 243, 3126-3129.	1.5	3
52	The LISA benchtop simulator at the University of Florida. Classical and Quantum Gravity, 2006, 23, S751-S760.	4.0	12
53	Results of a Search for Cold Flows of Dark Matter Axions. Physical Review Letters, 2005, 95, 091304.	7.8	51
54	Phase Effects in the Diffraction of Light: Beyond the Grating Equation. Physical Review Letters, 2005, 95, 013901.	7.8	51

#	ARTICLE	IF	CITATIONS
55	Energy Transmission by Photon Tunneling in Multilayer Structures Including Negative Index Materials. <i>Journal of Heat Transfer</i> , 2005, 127, 1046-1052.	2.1	18
56	Wide Range Optical Studies on Transparent SWNT Films. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	1
57	Optical characterization of $2k$ Fbond-charge-density wave in quasi-one-dimensional $3d$ -filled $(\text{EDO}\hat{\sim}\text{TTF})_2\text{X}$ ( $\text{X}=\text{PF}_6$ and $\text{AsF}_6$ ). <i>Physical Review B</i> , 2004, 70, .	3.2	61
58	Improved rf cavity search for halo axions. <i>Physical Review D</i> , 2004, 69, .	4.7	153
59	Terahertz study of 1,3,5-trinitro-s-triazine by time-domain and Fourier transform infrared spectroscopy. <i>Applied Physics Letters</i> , 2004, 85, 5535-5537.	3.3	120
60	Linewidth-broadened Fabry-Perot cavities within future gravitational wave detectors. <i>Classical and Quantum Gravity</i> , 2004, 21, S1031-S1036.	4.0	28
61	Effect of Metal Substitution in BSCCO Ceramic Superconductors. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2004, 25, 1423-1430.	0.6	2
62	Microporous Patterned Electrodes for Color-Matched Electrochromic Polymer Displays. <i>Chemistry of Materials</i> , 2004, 16, 2386-2393.	6.7	79
63	Dielectric selective mirror for intracavity wavelength selection in far-infrared $p$ -Ge lasers. <i>Journal of Applied Physics</i> , 2003, 94, 5474-5478.	2.5	7
64	Dual-recycled cavity-enhanced Michelson interferometer for gravitational-wave detection. <i>Applied Optics</i> , 2003, 42, 1257.	2.1	20
65	COEXISTENCE OF FERROMAGNETISM AND HIGH-TEMPERATURE SUPERCONDUCTIVITY IN Dy-DOPED $\text{BiPbSrCaCuO}$ . <i>Surface Review and Letters</i> , 2002, 09, 1109-1112.	1.1	5
66	Experimental Constraints on the Axion Dark Matter Halo Density. <i>Astrophysical Journal</i> , 2002, 571, L27-L30.	4.5	71
67	Far-infrared pump-probe measurement of an organic semiconductor $\hat{\text{I}}^{2+}$ -(BEDT-TTF) $_2$ Cl $_2$ using synchrotron radiation source. <i>Ferroelectrics</i> , 2001, 249, 31-39.	0.6	2
68	Combined Visible and Infrared Electrochromism Using Dual Polymer Devices. <i>Advanced Materials</i> , 2001, 13, 634-637.	21.0	171
69	Large-scale microwave cavity search for dark-matter axions. <i>Physical Review D</i> , 2001, 64, .	4.7	154
70	Far-Infrared gaps in single-wall carbon nanotubes. <i>Ferroelectrics</i> , 2001, 249, 145-154.	0.6	4
71	Polarized spectroscopy of aligned single-wall carbon nanotubes. <i>Physical Review B</i> , 2000, 62, R13310-R13313.	3.2	138
72	Fabry-Perot Resonators Built With $\text{YBa}_2\text{Cu}_3\text{O}_{7-\hat{\sim}}\hat{\sim}$ Films on Si Substrates. <i>Journal of Heat Transfer</i> , 2000, 122, 785-791.	2.1	7

#	ARTICLE	IF	CITATIONS
73	Doping-induced change of optical properties in underdoped cuprate superconductors. Journal of Physics Condensed Matter, 1999, 11, 239-264.	1.8	63
74	Physical and dielectric properties of $\text{Bi}_{1-x}\text{R}_x\text{Sr}_3\text{Ca}_3\text{Cu}_2\text{O}_{10}$ glasses ( $x = 0.5$ and $R = \text{Ag, Ni}$ ). Journal of Materials Science, 1999, 34, 3853-3858.	3.7	4
75	Far-Infrared Transmittance and Reflectance of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Films on Si Substrates. Journal of Heat Transfer, 1999, 121, 844-851.	2.1	17
76	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.	2.7	3
77	Results from a High-Sensitivity Search for Cosmic Axions. Physical Review Letters, 1998, 80, 2043-2046.	7.8	162
78	INFRARED PROPERTIES OF HIGH $T_c$ SUPERCONDUCTORS. , 1998, , 339-407.		18
79	Experimental Investigation of Symmetry Reduction and Electron-Molecular Vibration Coupling in Various $\text{RbC}_6\text{O}$ Phases. 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.	7.8	182
81	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.	7.8	195
82	Electrical and infrared study of $\text{Bi}_2\text{Sr}_2\text{Ca}_1\text{Cu}_2\text{O}_8$ 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 $\text{TEA}(\text{TCNQ})_2$ . Advanced Materials for Optics and Electronics, 1996, 6, 353-357.	0.4	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.	0.6	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 in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ and $\text{YBa}_2\text{Cu}_4\text{O}_8$ Superconductors. Physical Review Letters, 1995, 74, 598-601.	7.8	377
88	Luminescent polymers with discrete emitter units. Journal of Polymer Science, Part B: Polymer Physics, 1994, 32, 2395-2404.	2.1	27
89	a-b plane anisotropy of single-domain crystals of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ . European Physical Journal B, 1994, 94, 255-259.	1.5	12
90	Raman Scattering in Single-Crystal $\text{GdBa}_2\text{Cu}_3\text{O}_{7-\delta}$ . Physica Status Solidi (B): Basic Research, 1993, 177, K37.	1.5	1

#	ARTICLE	IF	CITATIONS
91	Infrared properties of epitaxial $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ thin films in the normal and superconducting states. <i>Physical Review B</i> , 1993, 47, 1036-1052.	3.2	112
92	OPTICAL PROPERTIES OF HIGH-TEMPERATURE SUPERCONDUCTORS. , 1992, , 363-469.		77
93	Vibrational spectra of some binary semiconducting oxide glasses. <i>Journal of Materials Science</i> , 1990, 25, 511-513.	3.7	0
94	Results from a search for cosmic axions. <i>Physical Review D</i> , 1990, 42, 1297-1300.	4.7	239
95	Cavity design for a cosmic axion detector. <i>Review of Scientific Instruments</i> , 1990, 61, 1076-1085.	1.3	47
96	Optical Reflectance Studies on $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ and Related Compounds. <i>Materials Research Society Symposia Proceedings</i> , 1987, 99, 777.	0.1	2
97	Far-Infrared Properties of ab plane oriented $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ . <i>Materials Research Society Symposia Proceedings</i> , 1987, 99, 227.	0.1	0
98	Far-infrared conductivity of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ . , 1987, , .		0
99	Phonon Combination Bands in the Far-Infrared Spectrum of $\text{K}_{0.5}\text{Rb}_{0.5}\text{I}$ Mixed Crystals. <i>Physica Status Solidi (B): Basic Research</i> , 1987, 139, K81.	1.5	1
100	Long Wavelength Optical Phonons in Mixed Alkali Halide Powder Crystals. <i>Physica Status Solidi (B): Basic Research</i> , 1986, 137, K9.	1.5	1
101	Far infrared study of optical phonons in $\text{K}_{1-x}\text{Rb}_x\text{I}$ mixed crystals. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1986, 7, 1805-1811.	0.6	2
102	Far-Infrared Dielectric Function of Zincblende ZnS. <i>Physica Status Solidi (B): Basic Research</i> , 1985, 128, 49-52.	1.5	10
103	Optical Properties of Heavily-Doped Polyacetylene. <i>Molecular Crystals and Liquid Crystals</i> , 1985, 117, 267-274.	0.8	27
104	Infrared Absorption in Quinolinium Di-Tetracyanoquinodimethanide. <i>Molecular Crystals and Liquid Crystals</i> , 1985, 120, 59-62.	0.8	10
105	Density of States and Hopping Conductivity in Nearly Metallic Polyacetylene. <i>Molecular Crystals and Liquid Crystals</i> , 1985, 117, 147-154.	0.8	32
106	Electronic Properties of $(\text{NMP})_x(\text{PHEN})_{1-x}(\text{TCNQ})$ . <i>Molecular Crystals and Liquid Crystals</i> , 1985, 120, 43-49.	0.8	13
107	Nearly Metallic $[\text{CH}(\text{C}_6\text{H}_5)_3]_x\text{C}_6\text{H}_5\text{N}_3$ - Importance of Solitons, Crystal Order, Hopping and Band Conduction. <i>Molecular Crystals and Liquid Crystals</i> , 1984, 105, 191-202.	0.8	6
108	The source of a problem with rapid-scanning fourier transform spectroscopy. , 1983, , .		0