

# William T Yost

## List of Publications by Year in descending order

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44  
papers

1,074  
citations

686830

13  
h-index

454577

30  
g-index

45  
all docs

45  
docs citations

45  
times ranked

502  
citing authors

#	ARTICLE	IF	CITATIONS
1	A constant-frequency ultrasonic phase method for monitoring imperfect adherent/adhesive interfaces. <i>Ultrasonics</i> , 2022, 120, 106641.	2.1	7
2	Optically stimulated electron emission analysis of surface contamination levels on epoxy composites and effect on failure mode of adhesively bonded specimens. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
3	Swept-frequency ultrasonic phase evaluation of adhesive bonding in tri-layer structures. <i>Journal of the Acoustical Society of America</i> , 2019, 145, 1609-1618.	0.5	10
4	Nondestructive evaluation of interfacial bond strength in single lap joints via swept-frequency ultrasonic phase measurements. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	2
5	Correlation of Trace Silicone Contamination Analyses on Epoxy Composites Using X-ray Photoelectron Spectroscopy (XPS) and Laser-Induced Breakdown Spectroscopy (LIBS). <i>Applied Spectroscopy</i> , 2019, 73, 229-235.	1.2	9
6	Surface characterization of carbon fiber reinforced polymers by picosecond laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 140, 5-12.	1.5	15
7	Correlation of optically stimulated electron emission with failure mode of adhesively bonded epoxy composites. <i>International Journal of Adhesion and Adhesives</i> , 2018, 84, 257-264.	1.4	3
8	Subharmonic generation, chaos, and subharmonic resurrection in an acoustically driven fluid-filled cavity. <i>Chaos</i> , 2015, 25, 023115.	1.0	2
9	Ultrasonic inspection to quantify failure pathologies of crimped electrical connections. , 2015, , .		0
10	Quantification of residual stress from photonic signatures of fused silica. , 2014, , .		1
11	Acoustic nonlinearity and cumulative plastic shear strain in cyclically loaded metals. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	22
12	Chaos and beyond in a water filled ultrasonic resonance system. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	0
13	Envelope solitons in acoustically dispersive vitreous silica. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 215401.	0.7	3
14	Subharmonics, chaos and beyond. , 2012, , .		0
15	Energy conservation and pulse propagation in an elastic medium with quadratic nonlinearity. <i>Journal of Applied Physics</i> , 2012, 112, 053507.	1.1	4
16	Determination of Peierls stress from acoustic harmonic generation. <i>Philosophical Magazine Letters</i> , 2012, 92, 128-132.	0.5	4
17	Shape profile of acoustic radiation-induced static displacement pulses in solids. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	6
18	Anomalous nonlinearity parameters of solids at low acoustic drive amplitudes. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	13

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19	Medidas No-invasivas de Presi??n Intramedular Utilizando Ultrasonido de Asa de Fase de Pulso Bloqueado para Detectar S??ndromes Compartimentales. Journal of Orthopaedic Trauma, 2006, 20, 520.	0.7	0
20	Noninvasive Measurements of Intramuscular Pressure Using Pulsed Phase-locked Loop Ultrasound for Detecting Compartment Syndromes. Journal of Orthopaedic Trauma, 2006, 20, 458-463.	0.7	45
21	Use of Capacitive Detection to Measure Harmonic Generation and the Nonlinearity Parameter in Liquids. AIP Conference Proceedings, 2005, , .	0.3	0
22	System for determination of ultrasonic wave speeds and their temperature dependence in liquids and in vitro tissues. Journal of the Acoustical Society of America, 2005, 117, 646-652.	0.5	5
23	Noninvasive assessment of intracranial pressure waveforms by using pulsed phase lock loop technology. Journal of Neurosurgery, 2005, 103, 361-367.	0.9	17
24	Cranial diameter pulsations measured by non-invasive ultrasound decrease with tilt. Aviation, Space, and Environmental Medicine, 2003, 74, 882-5.	0.6	14
25	Nonlinear ultrasonic characterization of fatigue microstructures. International Journal of Fatigue, 2001, 23, 487-490.	2.8	383
26	Determination of precipitate nucleation and growth rates from ultrasonic harmonic generation. Applied Physics Letters, 2000, 77, 1952-1954.	1.5	81
27	Assessment of single-fiber fragmentation using scanning acoustic microscopy. Journal of Materials Research, 1999, 14, 2881-2887.	1.2	0
28	Calibration Techniques for Electronic-Based Systems Used in Measurement of Nonlinearity Parameters. , 1999, , 2345-2351.		3
29	Effect of precipitate coherency strains on acoustic harmonic generation. Journal of Applied Physics, 1997, 81, 2957-2962.	1.1	108
30	Scanning Acoustic Microscopy of SCS-6 Silicon Carbide Fiber. Journal of the American Ceramic Society, 1996, 79, 209-212.	1.9	6
31	Linear and Nonlinear Ultrasonic Properties of Fatigued 410Cb Stainless Steel. , 1996, , 1347-1352.		26
32	Nonlinear Acoustic Assessment of Precipitation-Induced Coherency Strains in Aluminum Alloy 2024. , 1996, , 1361-1365.		3
33	Elastic constants and crystal orientation of individual grains of polycrystalline solids from scanning acoustic microscopy. Journal of the Acoustical Society of America, 1995, 98, 2854-2857.	0.5	16
34	Radial variation of elastic properties of SCS-6 silicon carbide fiber. Journal of Materials Research, 1994, 9, 2298-2303.	1.2	5
35	Acoustic harmonic generation from fatigue-induced dislocation dipoles. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1994, 69, 315-326.	0.8	154
36	Acoustic Harmonic Generation and Dislocation Dynamics of Fatigued Aluminum Alloys. , 1993, , 2059-2066.		3

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37	The Effects of Artificial Aging of Aluminum 2024 on its Nonlinearity Parameter. , 1993, , 2067-2073.		19
38	Absolute ultrasonic displacement amplitude measurements with a submersible electrostatic acoustic transducer. Review of Scientific Instruments, 1992, 63, 4182-4188.	0.6	31
39	Fundamental aspects of pulse phase-locked loop technology-based methods for measurement of ultrasonic velocity. Journal of the Acoustical Society of America, 1992, 91, 1456-1468.	0.5	21
40	Constant frequency pulsed phase-locked loop instrument for measurement of ultrasonic velocity. Review of Scientific Instruments, 1991, 62, 2451-2456.	0.6	5
41	Acoustic Nonlinearity in Dispersive Solids. , 1991, , 1805-1811.		1
42	Materials Characterization Using Acoustic Nonlinearity Parameters and Harmonic Generation: Effects of Crystalline and Amorphous Structures. , 1990, , 1661-1668.		1
43	Liquid-membrane coupling response of submersible electrostatic acoustic transducer. Review of Scientific Instruments, 1989, 60, 487-488.	0.6	6
44	Acoustic radiation-induced static strains in solids. Physical Review B, 1987, 35, 9780-9782.	1.1	19