Zhi Yu Yang

List of Publications by Year
in descending order

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70 papers	9,411 citations	236833 25 h-index	110317 64 g-index
70 all docs	70 docs citations	70 times ranked	4225 citing authors

#	Article	IF	Citations
1	Locally Resonant Sonic Materials. Science, 2000, 289, 1734-1736.	6.0	4,009
2	Membrane-Type Acoustic Metamaterial with Negative Dynamic Mass. Physical Review Letters, 2008, 101, 204301.	2.9	839
3	Dark acoustic metamaterials as super absorbers for low-frequency sound. Nature Communications, 2012, 3, 756.	5.8	835
4	Acoustic metasurface with hybrid resonances. Nature Materials, 2014, 13, 873-878.	13.3	801
5	Geometric phase and band inversion in periodic acoustic systems. Nature Physics, 2015, 11, 240-244.	6.5	498
6	Acoustic metamaterial panels for sound attenuation in the 50â€"1000 Hz regime. Applied Physics Letters, 2010, 96, .	1.5	385
7	Coupled Membranes with Doubly Negative Mass Density and Bulk Modulus. Physical Review Letters, 2013, 110, 134301.	2.9	276
8	Subwavelength total acoustic absorption with degenerate resonators. Applied Physics Letters, 2015, 107, .	1.5	212
9	Broadband locally resonant sonic shields. Applied Physics Letters, 2003, 83, 5566-5568.	1.5	171
10	Active control of membrane-type acoustic metamaterial by electric field. Applied Physics Letters, 2015, 106, .	1.5	134
11	Homogenization scheme for acoustic metamaterials. Physical Review B, 2014, 89, .	1.1	100
12	Low-frequency narrow-band acoustic filter with large orifice. Applied Physics Letters, 2013, 103, .	1.5	91
13	High-efficiency ventilated metamaterial absorber at low frequency. Applied Physics Letters, 2018, 112, .	1.5	87
14	Sound absorption by subwavelength membrane structures: A geometric perspective. Comptes Rendus - Mecanique, 2015, 343, 635-644.	2.1	82
15	Measurements of sound transmission through panels of locally resonant materials between impedance tubes. Applied Acoustics, 2005, 66, 751-765.	1.7	72
16	Hybrid membrane resonators for multiple frequency asymmetric absorption and reflection in large waveguide. Applied Physics Letters, 2017, 110, .	1.5	71
17	Electrically and thermally conductive underwater acoustically absorptive graphene/rubber nanocomposites for multifunctional applications. Nanoscale, 2017, 9, 14476-14485.	2.8	70
18	Graphene foam/carbon nanotube/poly(dimethyl siloxane) composites as excellent sound absorber. Composites Part A: Applied Science and Manufacturing, 2017, 102, 391-399.	3.8	54

#	Article	IF	Citations
19	Dewetting of Polymer Films with Built-In Topographical Defects. Langmuir, 2002, 18, 8510-8517.	1.6	45
20	Acoustic Coherent Perfect Absorbers as Sensitive Null Detectors. Scientific Reports, 2017, 7, 43574.	1.6	36
21	Electromagnetic and acoustic double-shielding graphene-based metastructures. Nanoscale, 2019, 11, 1692-1699.	2.8	32
22	Infrared passbands from fractal slit patterns on a metal plate. Applied Physics Letters, 2003, 83, 2106-2108.	1.5	30
23	Optical properties of HgTe/CdTe superlattices in the normal, semimetallic, and inverted-band regimes. Physical Review B, 1994, 49, 8096-8108.	1.1	29
24	Membrane-type resonator as an effective miniaturized tuned vibration mass damper. AIP Advances, 2016, 6, .	0.6	28
25	Matrix effects and mechanisms of the spectral shifts of coumarin 440 doped in solâ€“gel-derived gel glass. Journal of Applied Physics, 2000, 88, 2503-2508.	1.1	27
26	Aluminumâ€doped nâ€type ZnSTe alloy grown by molecular beam epitaxy. Applied Physics Letters, 1996, 69, 2519-2521.	1.5	24
27	High performance ZnSTe photovoltaic visible-blind ultraviolet detectors. Applied Physics Letters, 1997, 71, 3847-3849.	1.5	22
28	ZnSTe-based Schottky barrier ultraviolet detectors with nanosecond response time. Applied Physics Letters, 1998, 73, 2251-2253.	1.5	22
29	Evolution of wetting layer of InAsâˆ•GaAs quantum dots studied by reflectance difference spectroscopy. Applied Physics Letters, 2006, 88, 071903.	1.5	21
30	Subwavelength perfect acoustic absorption in membrane-type metamaterials: a geometric perspective. EPJ Applied Metamaterials, 2015, 2, 10.	0.8	20
31	Observation of in-plane optical anisotropy of spin-cast rigid-rod electroluminescent polymer films. Applied Physics Letters, 2000, 76, 1416-1418.	1.5	19
32	Active control of graphene-based membrane-type acoustic metamaterials using a low voltage. Nanoscale, 2019, 11, 16384-16392.	2.8	18
33	In-plane anisotropic strain of ZnO closely packed microcrystallites grown on tilted (0001) sapphire. Journal of Applied Physics, 2000, 88, 2480-2483.	1.1	17
34	Reflectance-difference spectroscopy study of the Fermi-level position of low-temperature-grown GaAs. Physical Review B, 1997, 55, R7379-R7382.	1.1	16
35	Observation of ZnSe/GaAs interface states by reflectance difference spectroscopy. Applied Physics Letters, 1995, 66, 2235-2237.	1.5	14
36	Voltage-tunable acoustic metasheet with highly asymmetric surfaces. Applied Physics Letters, 2017, 111, 194101.	1.5	14

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37	Comparison between optical techniques for the measurement of the surface electric field in (100) oriented GaAs. Applied Physics Letters, 1998, 73, 1520-1522.	1.5	13
38	ZnSSe-based ultra-violet photodiodes with extremely high detectivity. Optical Materials, 2003, 23, 21-26.	1.7	13
39	Large g factors of higher-lying excitons detected with reflectance difference spectroscopy in GaAs-based quantum wells. Applied Physics Letters, 2006, 89, 051903.	1.5	13
40	Coupled Decorated Membrane Resonators with Large Willis Coupling. Physical Review Applied, 2019, 12, .	1.5	13
41	Multiple-frequency perfect absorption by hybrid membrane resonators. Applied Physics Letters, 2020, 116, .	1.5	13
42	Determination of interface layer strain of Si/SiO2 interfaces by reflectance difference spectroscopy. Applied Physics Letters, 1997, 71, 87-89.	1.5	11
43	Super Damping of Mechanical Vibrations. Scientific Reports, 2019, 9, 17793.	1.6	11
44	Rubbing-induced molecular alignment and its relaxation in polystyrene thin films. Journal of Polymer Science, Part B: Polymer Physics, 2001, 39, 2906-2914.	2.4	10
45	Temporal evolution of relaxation in rubbed polystyrene thin films. Physical Review E, 2001, 63, 061603.	0.8	10
46	Theory of linear electro-optic effect near the E1 and the E1+Î”1 energies. Applied Physics Letters, 1998, 73, 1667-1669.	1.5	9
47	The absence of physical-aging effects on the surface relaxations of rubbed polystyrene. European Physical Journal E, 2008, 25, 291-298.	0.7	8
48	Wave Manipulations by Coherent Perfect Channeling. Scientific Reports, 2017, 7, 13907.	1.6	8
49	Polishing-related optical anisotropy of semi-insulating GaAs studied by reflectance difference spectroscopy. Journal of Applied Physics, 2000, 88, 1695-1697.	1.1	7
50	Folded sheet resonators that aim at low frequency attenuation of surface elastic waves in solids. Journal of Applied Physics, 2020, 127, 164904.	1.1	7
51	Numerical simulation of ZnSe/GaAs interface reflectance difference spectroscopy. Journal of Applied Physics, 1996, 80, 4621-4625.	1.1	6
52	Optical anisotropy of InAs submonolayer quantum wells in a (311) GaAs matrix. Physical Review B, 1997, 56, 6770-6773.	1.1	5
53	In-plane optical anisotropy of symmetric and asymmetric (001) GaAs/Al(Ga)As superlattices and quantum wells. Journal of Applied Physics, 2001, 90, 1266-1270.	1.1	5
54	Molecular Segmental Distortion in Rubbed Polystyrene. Macromolecules, 2004, 37, 3378-3380.	2.2	5

#	ARTICLE	IF	CITATIONS
55	Title is missing!. Journal of Materials Science Letters, 2000, 19, 1315-1318.	0.5	4
56	Effect of arsenic precipitates on Fermi level in GaAs grown by molecular-beam epitaxy at low temperature. Journal of Applied Physics, 2000, 87, 2923-2925.	1.1	4
57	Observation of ZnSe/GaAs interface states by photomodulation reflectance difference spectroscopy. Applied Physics Letters, 1999, 75, 528-530.	1.5	3
58	The effects of thermal annealing on the relaxation of rubbing-induced birefringence in polystyrene. European Physical Journal E, 2005, 17, 139-147.	0.7	3
59	ZnSe/GaAs interface state probed by time-resolved reflectance difference spectroscopy. Applied Physics Letters, 1999, 74, 3663-3665.	1.5	2
60	Optical anisotropy and strain evolution of GaAs surfaces at the onset of the formation of InAs quantum dots. Journal of Applied Physics, 2006, 99, 073507.	1.1	2
61	Pressure Monopoles, Velocity Monopoles, and Hybrid Monopoles in Acoustics. Physical Review Applied, 2019, 11, .	1.5	2
62	The absence of physical aging effects on the relaxation of rubbing-induced birefringence in polystyrene. European Physical Journal E, 2007, 24, 385-397.	0.7	1
63	Decorated membrane resonators as underground seismic wave barriers against high magnitude earthquakes. Journal of Applied Physics, 2020, 128, 084902.	1.1	1
64	An underground barrier of locally resonant metamaterial to attenuate surface elastic waves in solids. AIP Advances, 2020, 10, 075121.	0.6	1
65	Optical anisotropy of the interface. Journal of Crystal Growth, 1996, 159, 741-745.	0.7	0
66	Highly efficient and ultra-fast visible-blind ultra-violet detectors. , 0, , .		0
67	Study of ZnSe/GaAs interface state by femtosecond time-resolved reflectance difference spectroscopy. , 1998, , .		0
68	Relaxation times and energy barriers of rubbing-induced birefringence in glass-forming polymers. European Physical Journal E, 2008, 27, 413-420.	0.7	0
69	Hybrid resonance and the total absorption of low frequency acoustic waves. , 2015, , .		0
70	Hybrid membrane resonators with fluid permeable cavity. Applied Physics Letters, 2019, 115, 181903.	1.5	0