Wei-Yi Chang

List of Publications by Year
in descending order

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34 papers	753 citations	516710 16 h-index	580821 25 g-index
35 all docs	35 docs citations	35 times ranked	577 citing authors

#	Article	IF	Citations
1	The overpoling effect of alternating current poling on rhombohedral Pb(Mg1/3Nb2/3)O3-PbTiO3 single crystals. Applied Physics Letters, 2022, 120, .	3.3	6
2	Multiscale and multiphysics FEA simulation and materials optimization for laser ultrasound transducers. Materials Today Communications, 2022, 31, 103599.	1.9	1
3	Alternating current poling on sliver-mode rhombohedral Pb(Mg1/3Nb2/3)O3-PbTiO3 single crystals. Acta Materialia, 2021, 208, 116759.	7.9	27
4	Multi-layered domain morphology in relaxor single crystals with nano-patterned composite electrode. Acta Materialia, 2020, 182, 10-17.	7.9	18
5	Flexible 1â€“3 Composite Ultrasound Transducers With Silver-Nanowire-Based Stretchable Electrodes. IEEE Transactions on Industrial Electronics, 2020, 67, 6955-6962.	7.9	35
6	Stress-Sensing Method via Laser-Generated Ultrasound Wave Using Candle Soot Nanoparticle Composite. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1867-1876.	3.0	10
7	Candle-Soot Carbon Nanoparticles in Photoacoustics: Advantages and Challenges for Laser Ultrasound Transmitters. IEEE Nanotechnology Magazine, 2019, 13, 13-28.	1.3	32
8	Effect of low-frequency alternating current poling on 5-mm-thick 0.7Pb(Mg1/3Nb2/3)O3-0.3PbTiO3 single crystals. Applied Physics Letters, 2019, 115, .	3.3	38
9	Narrow band photoacoustic lamb wave generation for nondestructive testing using candle soot nanoparticle patches. Applied Physics Letters, 2019, 115, .	3.3	19
10	Effect of poling temperature on piezoelectric and dielectric properties of 0.7Pb(Mg1/3Nb2/3)O3-0.3PbTiO3 single crystals under alternating current poling. Applied Physics Letters, 2019, 114, .	3.3	49
11	Apparent phase stability and domain distribution of PMN-30PT single crystals with nanograted Au/MnOx electrodes. Acta Materialia, 2019, 169, 28-35.	7.9	14
12	Stress measurement of a pressurized vessel using candle soot nanocomposite based photoacoustic excitation. , 2019, , .		1
13	Patterned nano-domains in PMN-PT single crystals. Acta Materialia, 2018, 143, 166-173.	7.9	47
14	A Fiber Optic Laser Ultrasound Transducer using Candle Soot Nanoparticles/PDMS Composites. , 2018, , .		0
15	Dielectric and piezoelectric properties of 0.7 Pb(Mg_{1/3}Nb_{2/3})O₃-0.3 PbTiO₃ single crystal poled using alternating current. Materials Research Letters, 2018, 6, 537-544.	8.7	85
16	Domain engineering and full matrix material constants of the [111]_c-poled 0.63Pb(Mg_{1/3}Nb_{2/3})-0.37PbTiO₃ single crystal. CrystEngComm, 2018, 20, 4745-4751.	2.6	6
17	Evaluation of Photoacoustic Transduction Efficiency of Candle Soot Nanocomposite Transmitters. IEEE Nanotechnology Magazine, 2018, 17, 985-993.	2.0	37
18	Piezoelectric torsional actuation in d36 shear-mode PMN-PT single crystals. , 2018, , .		2

#	Article	IF	Citations
19	Piezoelectric d36 in-plane shear-mode of lead-free BZT-BCT single crystals for torsion actuation. Applied Physics Letters, 2017, 110, .	3.3	17
20	Intravascular forward-looking ultrasound transducers for microbubble-mediated sonothrombolysis. Scientific Reports, 2017, 7, 3454.	3.3	65
21	Development of forward-looking ultrasound transducers for microbubble-aided intravascular ultrasound-enhanced thrombolysis. , 2017, , .		0
22	Photoacoustic transduction efficiency evaluation of candle soot nanoparticles/PDMS composites. , 2017, , .		2
23	Optical fiber laser-generated-focused-ultrasound transducers for intravascular therapies. , 2017, , .		5
24	Nanocomposite transducer with a laser ultarsound transmitter and a piezoelectric receiver. , 2016, , .		0
25	Laser-generated-focused ultrasound transducers for microbubble-mediated, dual-excitation sonothrombolysis. , 2016, , .		14
26	A Novel Laser Ultrasound Transducer Using Candle Soot Carbon Nanoparticles. IEEE Nanotechnology Magazine, 2016, 15, 395-401.	2.0	43
27	40-MHz Micromachined PMN-PT Composite Ultrasound Array for Medical Imaging. , 2015, , .		2
28	Candle soot nanoparticles-polydimethylsiloxane composites for laser ultrasound transducers. Applied Physics Letters, 2015, 107, .	3.3	98
29	A novel laser ultrasound transducer using candle soot carbon nanoparticles. , 2015, , .		1
30	Study on dielectric and piezoelectric properties of 0.7 Pb(Mg1/3Nb2/3)O3-0.3 PbTiO3 single crystal with nano-patterned composite electrode. Journal of Applied Physics, 2013, 114, 114103.	2.5	17
31	Fabrication of gold sub-wavelength pore array using gas-assisted hot embossing with anodic aluminum oxide (AAO) template. Microelectronic Engineering, 2011, 88, 909-913.	2.4	8
32	Novel fabrication of an Au nanocone array on polycarbonate for high performance surface-enhanced Raman scattering. Journal of Micromechanics and Microengineering, 2011, 21, 035023.	2.6	10
33	A novel fabrication of polymer film with tapered sub-wavelength structures for anti-reflection. Microelectronic Engineering, 2010, 87, 1951-1954.	2.4	18
34	Fabrication of a nano/micro hybrid lens using gas-assisted hot embossing with an anodic aluminum oxide (AAO) template. Journal of Micromechanics and Microengineering, 2010, 20, 075023.	2.6	22