

Wei-Yi Chang

List of Publications by Year in descending order

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34
papers

753
citations

516710

16
h-index

580821

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g-index

35
all docs

35
docs citations

35
times ranked

577
citing authors

#	ARTICLE	IF	CITATIONS
1	Candle soot nanoparticles-polydimethylsiloxane composites for laser ultrasound transducers. Applied Physics Letters, 2015, 107, .	3.3	98
2	Dielectric and piezoelectric properties of 0.7 Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.3 PbTiO ₃ single crystal poled using alternating current. Materials Research Letters, 2018, 6, 537-544.	8.7	85
3	Intravascular forward-looking ultrasound transducers for microbubble-mediated sonothrombolysis. Scientific Reports, 2017, 7, 3454.	3.3	65
4	Effect of poling temperature on piezoelectric and dielectric properties of 0.7Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.3PbTiO ₃ single crystals under alternating current poling. Applied Physics Letters, 2019, 114, .	3.3	49
5	Patterned nano-domains in PMN-PT single crystals. Acta Materialia, 2018, 143, 166-173.	7.9	47
6	A Novel Laser Ultrasound Transducer Using Candle Soot Carbon Nanoparticles. IEEE Nanotechnology Magazine, 2016, 15, 395-401.	2.0	43
7	Effect of low-frequency alternating current poling on 5-mm-thick 0.7Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.3PbTiO ₃ single crystals. Applied Physics Letters, 2019, 115, .	3.3	38
8	Evaluation of Photoacoustic Transduction Efficiency of Candle Soot Nanocomposite Transmitters. IEEE Nanotechnology Magazine, 2018, 17, 985-993.	2.0	37
9	Flexible 1 st Composite Ultrasound Transducers With Silver-Nanowire-Based Stretchable Electrodes. IEEE Transactions on Industrial Electronics, 2020, 67, 6955-6962.	7.9	35
10	Candle-Soot Carbon Nanoparticles in Photoacoustics: Advantages and Challenges for Laser Ultrasound Transmitters. IEEE Nanotechnology Magazine, 2019, 13, 13-28.	1.3	32
11	Alternating current poling on sliver-mode rhombohedral Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ single crystals. Acta Materialia, 2021, 208, 116759.	7.9	27
12	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
13	Narrow band photoacoustic lamb wave generation for nondestructive testing using candle soot nanoparticle patches. Applied Physics Letters, 2019, 115, .	3.3	19
14	A novel fabrication of polymer film with tapered sub-wavelength structures for anti-reflection. Microelectronic Engineering, 2010, 87, 1951-1954.	2.4	18
15	Multi-layered domain morphology in relaxor single crystals with nano-patterned composite electrode. Acta Materialia, 2020, 182, 10-17.	7.9	18
16	Study on dielectric and piezoelectric properties of 0.7 Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.3 PbTiO ₃ single crystal with nano-patterned composite electrode. Journal of Applied Physics, 2013, 114, 114103.	2.5	17
17	Piezoelectric <i>d</i> ₃₆ in-plane shear-mode of lead-free BZT-BCT single crystals for torsion actuation. Applied Physics Letters, 2017, 110, .	3.3	17
18	Laser-generated-focused ultrasound transducers for microbubble-mediated, dual-excitation sonothrombolysis. , 2016, , .		14

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	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
23	Domain engineering and full matrix material constants of the [111] _c -poled 0.63Pb(Mg _{1/3} Nb _{2/3})-0.37PbTiO ₃ single crystal. CrystEngComm, 2018, 20, 4745-4751.	2.6	6
24	The overpoling effect of alternating current poling on rhombohedral Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ single crystals. Applied Physics Letters, 2022, 120, .	3.3	6
25	Optical fiber laser-generated-focused-ultrasound transducers for intravascular therapies. , 2017, , .		5
26	40-MHz Micromachined PMN-PT Composite Ultrasound Array for Medical Imaging. , 2015, , .		2
27	Photoacoustic transduction efficiency evaluation of candle soot nanoparticles/PDMS composites. , 2017, , .		2
28	Piezoelectric torsional actuation in d36 shear-mode PMN-PT single crystals. , 2018, , .		2
29	A novel laser ultrasound transducer using candle soot carbon nanoparticles. , 2015, , .		1
30	Stress measurement of a pressurized vessel using candle soot nanocomposite based photoacoustic excitation. , 2019, , .		1
31	Multiscale and multiphysics FEA simulation and materials optimization for laser ultrasound transducers. Materials Today Communications, 2022, 31, 103599.	1.9	1
32	Nanocomposite transducer with a laser ultarsound transmitter and a piezoelectric receiver. , 2016, , .		0
33	Development of forward-looking ultrasound transducers for microbubble-aided intravascular ultrasound-enhanced thrombolysis. , 2017, , .		0
34	A Fiber Optic Laser Ultrasound Transducer using Candle Soot Nanoparticles/PDMS Composites. , 2018, , .		0