

Kung-Hsuan Lin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67 papers	1,173 citations	21 h-index	32 g-index
91 ext. papers	1,378 ext. citations	5.6 avg, IF	3.94 L-index

#	Paper	IF	Citations
67	Fabry-Pérot interferometric calibration of van der Waals material-based nanomechanical resonators. <i>Nanoscale Advances</i> , 2022 , 4, 502-509	5.1	0
66	Transient Super-/Sub-Linear Nonlinearities in Silicon Nanostructures (Advanced Optical Materials 5/2022). <i>Advanced Optical Materials</i> , 2022 , 10, 2270018	8.1	
65	Generation and coherent control of terahertz acoustic phonons in superlattices of perovskite oxides. <i>New Journal of Physics</i> , 2021 , 23, 053009	2.9	4
64	Imaging Off-Resonance Nanomechanical Motion as Modal Superposition. <i>Advanced Science</i> , 2021 , 8, 2005941	19.6	1
63	Metallo-graphene enhanced upconversion luminescence for broadband photodetection under polychromatic illumination. <i>Chemical Engineering Journal</i> , 2021 , 420, 127608	14.7	5
62	Modulating Charge Separation with Hexagonal Boron Nitride Mediation in Vertical Van der Waals Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 26213-26221	9.5	12
61	Enhancement of ultrafast photoluminescence from deformed graphene studied by optical localization microscopy. <i>New Journal of Physics</i> , 2020 , 22, 013001	2.9	4
60	Self-Sufficient and Highly Efficient Gold Sandwich Upconversion Nanocomposite Lasers for Stretchable and Bio-applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19840-19854	9.5	10
59	Protein Crosslinking and Immobilization in 3D Microfluidics through Multiphoton Absorption. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 115013	2	1
58	Giant photothermal nonlinearity in a single silicon nanostructure. <i>Nature Communications</i> , 2020 , 11, 41017	17.4	15
57	Sn-Doping Enhanced Ultrahigh Mobility InSnSe Phototransistor. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24269-24278	9.5	12
56	Optically coupled engineered upconversion nanoparticles and graphene for a high responsivity broadband photodetector. <i>Nanoscale</i> , 2019 , 11, 9716-9725	7.7	22
55	Verification of complex acoustic mismatch model in sub-THz regime. <i>Applied Physics Letters</i> , 2019 , 114, 151106	3.4	3
54	Gold coated Cicada wings: Anti-reflective micro-environment for plasmonic enhancement of fluorescence from upconversion nanoparticles. <i>Materials Science and Engineering C</i> , 2019 , 102, 569-577	8.3	6
53	Extended visible to near-infrared harvesting of earth-abundant FeS ₂ /TiO ₂ heterostructures for highly active photocatalytic hydrogen evolution. <i>Green Chemistry</i> , 2018 , 20, 1640-1647	10	47
52	Effective thermal and mechanical properties of polycrystalline diamond films. <i>Journal of Applied Physics</i> , 2018 , 123, 165105	2.5	11
51	Phonon dynamics of single nanoparticles studied using confocal pump-probe backscattering. <i>Applied Physics Letters</i> , 2018 , 113, 171906	3.4	5

50	A Highly-Efficient Single Segment White Random Laser. <i>ACS Nano</i> , 2018 , 12, 11847-11859	16.7	29
49	Temperature-dependence of hypersound dynamics in SrRuO ₃ /SrTiO ₃ heterostructures. <i>Physical Review B</i> , 2018 , 98,	3.3	3
48	Carrier dynamics of Mn-induced states in GaN thin films. <i>Scientific Reports</i> , 2017 , 7, 5788	4.9	8
47	Ultrafast dynamics of quasiparticles and coherent acoustic phonons in slightly underdoped (BaK)Fe ₂ As ₂ . <i>Scientific Reports</i> , 2016 , 6, 25962	4.9	2
46	Ultrasmall all-optical plasmonic switch and its application to superresolution imaging. <i>Scientific Reports</i> , 2016 , 6, 24293	4.9	34
45	THz Acoustic Spectroscopy by using Double Quantum Wells and Ultrafast Optical Spectroscopy. <i>Scientific Reports</i> , 2016 , 6, 28577	4.9	7
44	[INVITED] Total-internal-reflection-based photomask for large-area photolithography. <i>Optics and Laser Technology</i> , 2016 , 79, 39-44	4.2	1
43	Length-dependent thermal transport and ballistic thermal conduction. <i>AIP Advances</i> , 2015 , 5, 053202	1.5	16
42	Second harmonic generation from suspended graphene sheets 2015 ,		1
41	Observation of pseudogaplike feature above T _c in LiFeAs by ultrafast optical spectroscopy. <i>Physical Review B</i> , 2014 , 90,	3.3	5
40	Inhibition of Escherichia coli respiratory enzymes by short visible femtosecond laser irradiation. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 315402	3	7
39	Observation of optical second harmonic generation from suspended single-layer and bi-layer graphene. <i>Applied Physics Letters</i> , 2014 , 105, 151605	3.4	22
38	Ultrafast carrier dynamics in GaN nanorods. <i>Applied Physics Letters</i> , 2014 , 105, 212105	3.4	21
37	Photothermal cancer therapy via femtosecond-laser-excited FePt nanoparticles. <i>Biomaterials</i> , 2013 , 34, 1128-34	15.6	98
36	Tunable and stable UV-NIR photoluminescence from annealed SiO _x with Si nanoparticles. <i>Optics Express</i> , 2013 , 21, 23416-24	3.3	7
35	Acoustic spectroscopy for studies of vitreous silica up to 740 GHz. <i>AIP Advances</i> , 2013 , 3, 072126	1.5	6
34	Broadband terahertz ultrasonic transducer based on a laser-driven piezoelectric semiconductor superlattice. <i>Ultrasonics</i> , 2012 , 52, 1-4	3.5	22
33	Charge Transfer in the Heterointerfaces of CdS/CdSe Cosensitized TiO ₂ Photoelectrode. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 1550-1555	3.8	58

32	Epitaxy of m-plane GaN on nanoscale patterned c-plane sapphire substrates. <i>Surface Science</i> , 2012 , 606, L1-L4	1.8	15
31	Investigation of nanopatterned c-plane sapphire Substrates for Growths of polar and nonpolar GaN epilayers. <i>Journal of Crystal Growth</i> , 2012 , 348, 47-52	1.6	6
30	Femtosecond optical excitation of coherent acoustic phonons in a piezoelectric p-n junction. <i>Physical Review B</i> , 2011 , 84,	3.3	8
29	Demonstration of terahertz frequency-dependent field transformation in an irregular waveguide structure with direct measurement of the internal electric fields. <i>Optics Letters</i> , 2010 , 35, 2931-3	3	1
28	Comparison of phase-sensitive imaging techniques for studying terahertz waves in structured LiNbO ₃ . <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010 , 27, 2350	1.7	16
27	Generation of multicycle terahertz phonon-polariton waves in a planar waveguide by tilted optical pulse fronts. <i>Applied Physics Letters</i> , 2009 , 95, 103304	3.4	37
26	Quantitative phase contrast imaging of THz electric fields in a dielectric waveguide. <i>Optics Express</i> , 2009 , 17, 9219-25	3.3	31
25	Specular scattering probability of acoustic phonons in atomically flat interfaces. <i>Physical Review Letters</i> , 2009 , 103, 264301	7.4	41
24	Molecular Imaging of Cancer Cells Using Plasmon-Resonant-Enhanced Third-Harmonic-Generation in Silver Nanoparticles. <i>Advanced Materials</i> , 2007 , 19, 4520-4523	24	69
23	Spatial manipulation of nanoacoustic waves with nanoscale spot sizes. <i>Nature Nanotechnology</i> , 2007 , 2, 704-8	28.7	71
22	Efficient generation of coherent acoustic phonons in (111) InGaAs/GaAs multiple quantum wells through piezoelectric effects. <i>Applied Physics Letters</i> , 2007 , 90, 172102	3.4	19
21	Two-dimensional nanoultrasonic imaging by using acoustic nanowaves. <i>Applied Physics Letters</i> , 2006 , 89, 043106	3.4	32
20	Characterizing the nanoacoustic superlattice in a phonon cavity using a piezoelectric single quantum well. <i>Applied Physics Letters</i> , 2006 , 89, 143103	3.4	15
19	Compositional dependence of longitudinal sound velocities of piezoelectric (111) In _x Ga(1-x)As measured by picosecond ultrasonics. <i>Journal of Applied Physics</i> , 2006 , 100, 103516	2.5	5
18	Biomolecular imaging based on far-red fluorescent protein with a high two-photon excitation action cross section. <i>Optics Letters</i> , 2006 , 31, 930-2	3	25
17	Optical piezoelectric transducer for nano-ultrasonics. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005 , 52, 1404-14	3.2	27
16	Generation of picosecond acoustic pulses using a p-n junction with piezoelectric effects. <i>Applied Physics Letters</i> , 2005 , 86, 093110	3.4	31
15	Generation of frequency-tunable nanoacoustic waves by optical coherent control. <i>Applied Physics Letters</i> , 2005 , 87, 093114	3.4	20

14	Ultrafast carrier dynamics in ZnO nanorods. <i>Applied Physics Letters</i> , 2005 , 87, 023106	3-4	49
13	Transmission of light through quantum heterostructures modulated by coherent acoustic phonons. <i>Journal of Applied Physics</i> , 2004 , 95, 1114-1121	2-5	38
12	Reflection property of nano-acoustic wave at the air/GaN interface. <i>Applied Physics Letters</i> , 2004 , 85, 4735-4737	3-4	12
11	Generation of coherent acoustic phonons in GaN-based p-n junction. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004 , 1, 2662-2665		
10	Terahertz electron distribution modulation in piezoelectric In _x Ga _{1-x} N/GaN multiple quantum wells using coherent acoustic nanowaves. <i>Physical Review B</i> , 2004 , 70,	3-3	16
9	Nano-ultrasonics: science and technology 2004 , 5352, 101		2
8	Generation of coherent acoustic phonons in piezoelectric semiconductor heterostructures 2003 , 4992, 226		4
7	Observation of huge nonlinear absorption enhancement near exciton resonance in GaN. <i>Applied Physics Letters</i> , 2003 , 83, 3087-3089	3-4	13
6	Spectral analysis of high-harmonic coherent acoustic phonons in piezoelectric semiconductor multiple quantum wells. <i>Physical Review B</i> , 2003 , 67,	3-3	27
5	Ultrashort hole capture time in Mg-doped GaN thin films. <i>Applied Physics Letters</i> , 2002 , 81, 3975-3977	3-4	13
4	Triple-optical autocorrelation for direct optical pulse-shape measurement. <i>Applied Physics Letters</i> , 2002 , 81, 1402-1404	3-4	7
3	Characterization of ultrashort optical pulses with third-harmonic-generation based triple autocorrelation. <i>IEEE Journal of Quantum Electronics</i> , 2002 , 38, 1529-1535	2	3
2	Femtosecond dynamics of exciton bleaching in bulk GaN at room temperature. <i>Applied Physics Letters</i> , 2002 , 81, 85-87	3-4	11
1	Transient Super-/Sub-Linear Nonlinearities in Silicon Nanostructures. <i>Advanced Optical Materials</i> , 2010 , 18, 1111-1114	3-1	1