

# Kung-Hsuan Lin

## List of Publications by Citations

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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	Photothermal cancer therapy via femtosecond-laser-excited FePt nanoparticles. <i>Biomaterials</i> , <b>2013</b> , 34, 1128-34	15.6	98
66	Spatial manipulation of nanoacoustic waves with nanoscale spot sizes. <i>Nature Nanotechnology</i> , <b>2007</b> , 2, 704-8	28.7	71
65	Molecular Imaging of Cancer Cells Using Plasmon-Resonant-Enhanced Third-Harmonic-Generation in Silver Nanoparticles. <i>Advanced Materials</i> , <b>2007</b> , 19, 4520-4523	24	69
64	Charge Transfer in the Heterointerfaces of CdS/CdSe Cosensitized TiO <sub>2</sub> Photoelectrode. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 1550-1555	3.8	58
63	Ultrafast carrier dynamics in ZnO nanorods. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 023106	3.4	49
62	Extended visible to near-infrared harvesting of earth-abundant FeS <sub>2</sub> /TiO <sub>2</sub> heterostructures for highly active photocatalytic hydrogen evolution. <i>Green Chemistry</i> , <b>2018</b> , 20, 1640-1647	10	47
61	Specular scattering probability of acoustic phonons in atomically flat interfaces. <i>Physical Review Letters</i> , <b>2009</b> , 103, 264301	7.4	41
60	Transmission of light through quantum heterostructures modulated by coherent acoustic phonons. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 1114-1121	2.5	38
59	Generation of multicycle terahertz phonon-polariton waves in a planar waveguide by tilted optical pulse fronts. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 103304	3.4	37
58	Ultrasmall all-optical plasmonic switch and its application to superresolution imaging. <i>Scientific Reports</i> , <b>2016</b> , 6, 24293	4.9	34
57	Two-dimensional nanoultrasonic imaging by using acoustic nanowaves. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 043106	3.4	32
56	Quantitative phase contrast imaging of THz electric fields in a dielectric waveguide. <i>Optics Express</i> , <b>2009</b> , 17, 9219-25	3.3	31
55	Generation of picosecond acoustic pulses using a p-n junction with piezoelectric effects. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 093110	3.4	31
54	A Highly-Efficient Single Segment White Random Laser. <i>ACS Nano</i> , <b>2018</b> , 12, 11847-11859	16.7	29
53	Optical piezoelectric transducer for nano-ultrasonics. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2005</b> , 52, 1404-14	3.2	27
52	Spectral analysis of high-harmonic coherent acoustic phonons in piezoelectric semiconductor multiple quantum wells. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	27
51	Biomolecular imaging based on far-red fluorescent protein with a high two-photon excitation action cross section. <i>Optics Letters</i> , <b>2006</b> , 31, 930-2	3	25

50	Optically coupled engineered upconversion nanoparticles and graphene for a high responsivity broadband photodetector. <i>Nanoscale</i> , <b>2019</b> , 11, 9716-9725	7.7	22
49	Broadband terahertz ultrasonic transducer based on a laser-driven piezoelectric semiconductor superlattice. <i>Ultrasonics</i> , <b>2012</b> , 52, 1-4	3.5	22
48	Observation of optical second harmonic generation from suspended single-layer and bi-layer graphene. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 151605	3.4	22
47	Ultrafast carrier dynamics in GaN nanorods. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 212105	3.4	21
46	Generation of frequency-tunable nanoacoustic waves by optical coherent control. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 093114	3.4	20
45	Efficient generation of coherent acoustic phonons in (111) InGaAs/GaAs multiple quantum wells through piezoelectric effects. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 172102	3.4	19
44	Length-dependent thermal transport and ballistic thermal conduction. <i>AIP Advances</i> , <b>2015</b> , 5, 053202	1.5	16
43	Comparison of phase-sensitive imaging techniques for studying terahertz waves in structured LiNbO <sub>3</sub> . <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2010</b> , 27, 2350	1.7	16
42	Terahertz electron distribution modulation in piezoelectric In <sub>x</sub> Ga <sub>1-x</sub> N/GaN multiple quantum wells using coherent acoustic nanowaves. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	16
41	Epitaxy of m-plane GaN on nanoscale patterned c-plane sapphire substrates. <i>Surface Science</i> , <b>2012</b> , 606, L1-L4	1.8	15
40	Characterizing the nanoacoustic superlattice in a phonon cavity using a piezoelectric single quantum well. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 143103	3.4	15
39	Giant photothermal nonlinearity in a single silicon nanostructure. <i>Nature Communications</i> , <b>2020</b> , 11, 41017.4	17.4	15
38	Ultrashort hole capture time in Mg-doped GaN thin films. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 3975-3977	3.4	13
37	Observation of huge nonlinear absorption enhancement near exciton resonance in GaN. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 3087-3089	3.4	13
36	Sn-Doping Enhanced Ultrahigh Mobility InSnSe Phototransistor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 24269-24278	9.5	12
35	Modulating Charge Separation with Hexagonal Boron Nitride Mediation in Vertical Van der Waals Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 26213-26221	9.5	12
34	Reflection property of nano-acoustic wave at the air/GaN interface. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 4735-4737	3.4	12
33	Effective thermal and mechanical properties of polycrystalline diamond films. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 165105	2.5	11

32	Femtosecond dynamics of exciton bleaching in bulk GaN at room temperature. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 85-87	3.4	11
31	Self-Sufficient and Highly Efficient Gold Sandwich Upconversion Nanocomposite Lasers for Stretchable and Bio-applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 19840-19854	9.5	10
30	Carrier dynamics of Mn-induced states in GaN thin films. <i>Scientific Reports</i> , <b>2017</b> , 7, 5788	4.9	8
29	Femtosecond optical excitation of coherent acoustic phonons in a piezoelectric p-n junction. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	8
28	THz Acoustic Spectroscopy by using Double Quantum Wells and Ultrafast Optical Spectroscopy. <i>Scientific Reports</i> , <b>2016</b> , 6, 28577	4.9	7
27	Inhibition of Escherichia coli respiratory enzymes by short visible femtosecond laser irradiation. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 315402	3	7
26	Tunable and stable UV-NIR photoluminescence from annealed SiO <sub>x</sub> with Si nanoparticles. <i>Optics Express</i> , <b>2013</b> , 21, 23416-24	3.3	7
25	Triple-optical autocorrelation for direct optical pulse-shape measurement. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 1402-1404	3.4	7
24	Gold coated Cicada wings: Anti-reflective micro-environment for plasmonic enhancement of fluorescence from upconversion nanoparticles. <i>Materials Science and Engineering C</i> , <b>2019</b> , 102, 569-577	8.3	6
23	Investigation of nanopatterned c-plane sapphire Substrates for Growths of polar and nonpolar GaN epilayers. <i>Journal of Crystal Growth</i> , <b>2012</b> , 348, 47-52	1.6	6
22	Acoustic spectroscopy for studies of vitreous silica up to 740 GHz. <i>AIP Advances</i> , <b>2013</b> , 3, 072126	1.5	6
21	Observation of pseudogaplike feature above T <sub>c</sub> in LiFeAs by ultrafast optical spectroscopy. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	5
20	Compositional dependence of longitudinal sound velocities of piezoelectric (111) In <sub>x</sub> Ga(1-x)As measured by picosecond ultrasonics. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 103516	2.5	5
19	Metallo-graphene enhanced upconversion luminescence for broadband photodetection under polychromatic illumination. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 127608	14.7	5
18	Phonon dynamics of single nanoparticles studied using confocal pump-probe backscattering. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 171906	3.4	5
17	Enhancement of ultrafast photoluminescence from deformed graphene studied by optical localization microscopy. <i>New Journal of Physics</i> , <b>2020</b> , 22, 013001	2.9	4
16	Generation of coherent acoustic phonons in piezoelectric semiconductor heterostructures <b>2003</b> , 4992, 226		4
15	Generation and coherent control of terahertz acoustic phonons in superlattices of perovskite oxides. <i>New Journal of Physics</i> , <b>2021</b> , 23, 053009	2.9	4

14	Verification of complex acoustic mismatch model in sub-THz regime. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 151106	3.4	3
13	Characterization of ultrashort optical pulses with third-harmonic-generation based triple autocorrelation. <i>IEEE Journal of Quantum Electronics</i> , <b>2002</b> , 38, 1529-1535	2	3
12	Temperature-dependence of hypersound dynamics in SrRuO <sub>3</sub> /SrTiO <sub>3</sub> heterostructures. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	3
11	Ultrafast dynamics of quasiparticles and coherent acoustic phonons in slightly underdoped (BaK)Fe <sub>2</sub> As <sub>2</sub> . <i>Scientific Reports</i> , <b>2016</b> , 6, 25962	4.9	2
10	Nano-ultrasonics: science and technology <b>2004</b> , 5352, 101		2
9	[INVITED] Total-internal-reflection-based photomask for large-area photolithography. <i>Optics and Laser Technology</i> , <b>2016</b> , 79, 39-44	4.2	1
8	Second harmonic generation from suspended graphene sheets <b>2015</b> ,		1
7	Demonstration of terahertz frequency-dependent field transformation in an irregular waveguide structure with direct measurement of the internal electric fields. <i>Optics Letters</i> , <b>2010</b> , 35, 2931-3	3	1
6	Protein Crosslinking and Immobilization in 3D Microfluidics through Multiphoton Absorption. <i>ECS Journal of Solid State Science and Technology</i> , <b>2020</b> , 9, 115013	2	1
5	Transient Super-/Sub-Linear Nonlinearities in Silicon Nanostructures. <i>Advanced Optical Materials</i> , <b>2018</b> , 10, 171181	18.1	1
4	Imaging Off-Resonance Nanomechanical Motion as Modal Superposition. <i>Advanced Science</i> , <b>2021</b> , 8, 2005941	5.6	1
3	Fabry-Pérot interferometric calibration of van der Waals material-based nanomechanical resonators. <i>Nanoscale Advances</i> , <b>2022</b> , 4, 502-509	5.1	0
2	Generation of coherent acoustic phonons in GaN-based p-n junction. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2004</b> , 1, 2662-2665		
1	Transient Super-/Sub-Linear Nonlinearities in Silicon Nanostructures (Advanced Optical Materials 5/2022). <i>Advanced Optical Materials</i> , <b>2022</b> , 10, 2270018	8.1	