

# Kung-Hsuan Lin

## List of Publications by Year in descending order

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Version: 2024-02-01

89  
papers

1,528  
citations

279798

23  
h-index

330143

37  
g-index

91  
all docs

91  
docs citations

91  
times ranked

2049  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photothermal cancer therapy via femtosecond-laser-excited FePt nanoparticles. <i>Biomaterials</i> , 2013, 34, 1128-1134.	11.4	116
2	Spatial manipulation of nanoacoustic waves with nanoscale spot sizes. <i>Nature Nanotechnology</i> , 2007, 2, 704-708.	31.5	80
3	Molecular Imaging of Cancer Cells Using Plasmon-Resonant-Enhanced Third-Harmonic-Generation in Silver Nanoparticles. <i>Advanced Materials</i> , 2007, 19, 4520-4523.	21.0	79
4	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> , 2018, 20, 1640-1647.	9.0	75
5	Charge Transfer in the Heterointerfaces of CdS/CdSe Cosensitized TiO <sub>2</sub> Photoelectrode. <i>Journal of Physical Chemistry C</i> , 2012, 116, 1550-1555.	3.1	62
6	Ultrafast carrier dynamics in ZnO nanorods. <i>Applied Physics Letters</i> , 2005, 87, 023106.	3.3	59
7	Quantitative phase contrast imaging of THz electric fields in a dielectric waveguide. <i>Optics Express</i> , 2009, 17, 9219.	3.4	57
8	A Highly-Efficient Single Segment White Random Laser. <i>ACS Nano</i> , 2018, 12, 11847-11859.	14.6	51
9	Specular Scattering Probability of Acoustic Phonons in Atomically Flat Interfaces. <i>Physical Review Letters</i> , 2009, 103, 264301.	7.8	49
10	Ultrasmall all-optical plasmonic switch and its application to superresolution imaging. <i>Scientific Reports</i> , 2016, 6, 24293.	3.3	45
11	Generation of multicycle terahertz phonon-polariton waves in a planar waveguide by tilted optical pulse fronts. <i>Applied Physics Letters</i> , 2009, 95, 103304.	3.3	43
12	Transmission of light through quantum heterostructures modulated by coherent acoustic phonons. <i>Journal of Applied Physics</i> , 2004, 95, 1114-1121.	2.5	42
13	Giant photothermal nonlinearity in a single silicon nanostructure. <i>Nature Communications</i> , 2020, 11, 4101.	12.8	42
14	Optically coupled engineered upconversion nanoparticles and graphene for a high responsivity broadband photodetector. <i>Nanoscale</i> , 2019, 11, 9716-9725.	5.6	39
15	Observation of optical second harmonic generation from suspended single-layer and bi-layer graphene. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	36
16	Generation of picosecond acoustic pulses using a p-n junction with piezoelectric effects. <i>Applied Physics Letters</i> , 2005, 86, 093110.	3.3	35
17	Biomolecular imaging based on far-red fluorescent protein with a high two-photon excitation action cross section. <i>Optics Letters</i> , 2006, 31, 930.	3.3	34
18	Two-dimensional nanoultrasonic imaging by using acoustic nanowaves. <i>Applied Physics Letters</i> , 2006, 89, 043106.	3.3	34

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19	Optical piezoelectric transducer for nano-ultrasonics. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1404-1414.	3.0	31
20	Spectral analysis of high-harmonic coherent acoustic phonons in piezoelectric semiconductor multiple quantum wells. Physical Review B, 2003, 67, .	3.2	28
21	Broadband terahertz ultrasonic transducer based on a laser-driven piezoelectric semiconductor superlattice. Ultrasonics, 2012, 52, 1-4.	3.9	26
22	Comparison of phase-sensitive imaging techniques for studying terahertz waves in structured LiNbO <sub>3</sub> . Journal of the Optical Society of America B: Optical Physics, 2010, 27, 2350.	2.1	25
23	Generation of frequency-tunable nanoacoustic waves by optical coherent control. Applied Physics Letters, 2005, 87, 093114.	3.3	23
24	Efficient generation of coherent acoustic phonons in (111) InGaAs <sup>x</sup> GaAs multiple quantum wells through piezoelectric effects. Applied Physics Letters, 2007, 90, 172102.	3.3	22
25	Ultrafast carrier dynamics in GaN nanorods. Applied Physics Letters, 2014, 105, 212105.	3.3	22
26	Self-Sufficient and Highly Efficient Gold Sandwich Upconversion Nanocomposite Lasers for Stretchable and Bio-applications. ACS Applied Materials & Interfaces, 2020, 12, 19840-19854.	8.0	21
27	Terahertz electron distribution modulation in piezoelectric In <sub>x</sub> Ga <sub>1-x</sub> N multiple quantum wells using coherent acoustic nanowaves. Physical Review B, 2004, 70, .	3.2	19
28	Observation of huge nonlinear absorption enhancement near exciton resonance in GaN. Applied Physics Letters, 2003, 83, 3087-3089.	3.3	17
29	Characterizing the nanoacoustic superlattice in a phonon cavity using a piezoelectric single quantum well. Applied Physics Letters, 2006, 89, 143103.	3.3	17
30	Length-dependent thermal transport and ballistic thermal conduction. AIP Advances, 2015, 5, 053202.	1.3	17
31	Sn-Doping Enhanced Ultrahigh Mobility In <sub>1-x</sub> Sn <sub>x</sub> Se Phototransistor. ACS Applied Materials & Interfaces, 2019, 11, 24269-24278.	8.0	17
32	Epitaxy of m-plane GaN on nanoscale patterned c-plane sapphire substrates. Surface Science, 2012, 606, L1-L4.	1.9	16
33	Metallo-graphene enhanced upconversion luminescence for broadband photodetection under polychromatic illumination. Chemical Engineering Journal, 2021, 420, 127608.	12.7	15
34	Reflection property of nano-acoustic wave at the air-GaN interface. Applied Physics Letters, 2004, 85, 4735-4737.	3.3	14
35	Effective thermal and mechanical properties of polycrystalline diamond films. Journal of Applied Physics, 2018, 123, .	2.5	14
36	Modulating Charge Separation with Hexagonal Boron Nitride Mediation in Vertical Van der Waals Heterostructures. ACS Applied Materials & Interfaces, 2020, 12, 26213-26221.	8.0	14

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37	Femtosecond dynamics of exciton bleaching in bulk GaN at room temperature. Applied Physics Letters, 2002, 81, 85-87.	3.3	13
38	Ultrashort hole capture time in Mg-doped GaN thin films. Applied Physics Letters, 2002, 81, 3975-3977.	3.3	13
39	Gold coated Cicada wings: Anti-reflective micro-environment for plasmonic enhancement of fluorescence from upconversion nanoparticles. Materials Science and Engineering C, 2019, 102, 569-577.	7.3	13
40	Triple-optical autocorrelation for direct optical pulse-shape measurement. Applied Physics Letters, 2002, 81, 1402-1404.	3.3	12
41	Tunable and stable UV-NIR photoluminescence from annealed SiO <sub>x</sub> with Si nanoparticles. Optics Express, 2013, 21, 23416.	3.4	11
42	Compositional dependence of longitudinal sound velocities of piezoelectric (111) In <sub>x</sub> Ga(1- <i>x</i> )As measured by picosecond ultrasonics. Journal of Applied Physics, 2006, 100, 103516.	2.5	9
43	Verification of complex acoustic mismatch model in sub-THz regime. Applied Physics Letters, 2019, 114, .	3.3	9
44	Femtosecond optical excitation of coherent acoustic phonons in a piezoelectric junction. Physical Review B, 2011, 84, .	3.2	8
45	Inhibition of <i>Escherichia coli</i> respiratory enzymes by short visible femtosecond laser irradiation. Journal Physics D: Applied Physics, 2014, 47, 315402.	2.8	8
46	Carrier dynamics of Mn-induced states in GaN thin films. Scientific Reports, 2017, 7, 5788.	3.3	8
47	Investigation of nanopatterned c-plane sapphire Substrates for Growths of polar and nonpolar GaN epilayers. Journal of Crystal Growth, 2012, 348, 47-52.	1.5	7
48	Acoustic spectroscopy for studies of vitreous silica up to 740 GHz. AIP Advances, 2013, 3, 072126.	1.3	7
49	THz Acoustic Spectroscopy by using Double Quantum Wells and Ultrafast Optical Spectroscopy. Scientific Reports, 2016, 6, 28577.	3.3	7
50	Phonon dynamics of single nanoparticles studied using confocal pump-probe backscattering. Applied Physics Letters, 2018, 113, 171906.	3.3	7
51	Observation of pseudogaplike feature above $T_c$ in LiFeAs by ultrafast optical spectroscopy. Physical Review B, 2014, 90, .		
52	Generation and coherent control of terahertz acoustic phonons in superlattices of perovskite oxides. New Journal of Physics, 2021, 23, 053009.	2.9	6
53	Enhancement of ultrafast photoluminescence from deformed graphene studied by optical localization microscopy. New Journal of Physics, 2020, 22, 013001.	2.9	5
54	Transient Superlinear Nonlinearities in Silicon Nanostructures. Advanced Optical Materials, 2022, 10, 2101711.	7.3	5

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55	Characterization of ultrashort optical pulses with third-harmonic-generation based triple autocorrelation. IEEE Journal of Quantum Electronics, 2002, 38, 1529-1535.	1.9	4
56	Generation of coherent acoustic phonons in piezoelectric semiconductor heterostructures. , 2003, 4992, 226.		4
57	Temperature-dependence of hypersound dynamics in $\text{SrRuO}_3$ heterostructures. Physical Review B, 2018, 98, .		4
58	Ultrafast dynamics of quasiparticles and coherent acoustic phonons in slightly underdoped (BaK)Fe <sub>2</sub> As <sub>2</sub> . Scientific Reports, 2016, 6, 25962.	3.3	3
59	Protein Crosslinking and Immobilization in 3D Microfluidics through Multiphoton Absorption. ECS Journal of Solid State Science and Technology, 2020, 9, 115013.	1.8	3
60	Fabry-Perot interferometric calibration of van der Waals material-based nanomechanical resonators. Nanoscale Advances, 2022, 4, 502-509.	4.6	3
61	Nano-ultrasonics: science and technology. , 2004, 5352, 101.		2
62	Novel colored pulse lasers photography for high speed imaging. , 2009, , .		2
63	Imaging Off-Resonance Nanomechanical Motion as Modal Superposition. Advanced Science, 2021, 8, 2005041.	11.2	2
64	Observation of huge nonlinear absorption enhancement near exciton resonance in GaN. , 2003, , .		1
65	Demonstration of terahertz frequency-dependent field transformation in an irregular waveguide structure with direct measurement of the internal electric fields. Optics Letters, 2010, 35, 2931.	3.3	1
66	Second harmonic generation from suspended graphene sheets. , 2015, , .		1
67	[INVITED] Total-internal-reflection-based photomask for large-area photolithography. Optics and Laser Technology, 2016, 79, 39-44.	4.6	1
68	Transient Super-Sub-Linear Nonlinearities in Silicon Nanostructures (Advanced Optical Materials) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	7.8	1
69	Impact of band structure on wave function dissipation in field emission resonance. Physical Review B, 2022, 105, .	3.2	1
70	Optoelectrical Nanomechanical Resonators Made from Multilayered Two-Dimensional Materials. ACS Applied Nano Materials, 2022, 5, 8875-8882.	5.0	1
71	THG-based third order autocorrelation for direct optical pulse-shape measurement on mode-locked Ti:sapphire lasers. , 0, , .		0
72	Tera-hertz acousto-electric modulation in piezoelectric InGaN/GaN quantum wells using nano acoustic waves. , 2003, , .		0

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73	Nano-acoustic waveform synthesis and second harmonic generation of coherent acoustic phonon oscillations using optical coherent control. , 2003, , .		0
74	Characterization of ultrashort optical pulses: a comparison between toad and frog. , 0, , .		0
75	Generation of coherent acoustic phonons in GaN-based p-n junction. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 2662-2665.	0.8	0
76	Generation, detection, and propagation of nano-acoustic waves in piezoelectric semiconductors (Invited Paper). , 2005, , .		0
77	Generation of frequency tunable nano-acoustic waves by optical coherent control. , 0, , .		0
78	1D nano-ultrasonic scan with 1-nanometer spatial resolution. , 0, , .		0
79	Propagation of sub-THz acoustic nano-pulses in water and ice. , 2006, , .		0
80	Transient wavefunction analysis of a phononic bandgap nano-crystal. , 2006, , .		0
81	Optical piezoelectric transducer based nanoultrasonics. , 2007, , .		0
82	The interaction of THz phonon-polariton waves with microstructures observed using quantitative, phase-sensitive imaging. , 2009, , .		0
83	Nano-ultrasonic based on GaN nano-layers. , 2010, , .		0
84	Charge Transport of CdS/CdSe Co-sensitized Solar Cells. , 2012, , .		0
85	THz Acoustic Attenuation of Silica studied by Ultrafast Acoustic Phonon Spectroscopy. , 2013, , .		0
86	THz acoustic spectroscopy based on GaN nanostructures. Proceedings of SPIE, 2014, , .	0.8	0
87	Realization of super-resolution imaging by microlens-assisted laser scanning microscopy. , 2015, , .		0
88	Ultrasmall high efficiency all-optical switch with single silicon nanoparticle. , 2021, , .		0
89	Uniformity of GaN Nanorods on Silicon Substrates studied by Ultrafast Acoustic Phonon Spectroscopy. , 2013, , .		0