

Chi-Kuang Sun

List of Publications by Year in descending order

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407
papers

8,644
citations

50276

46
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64796

79
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411
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411
docs citations

411
times ranked

6999
citing authors

#	ARTICLE	IF	CITATIONS
1	Femtosecond-tunable measurement of electron thermalization in gold. <i>Physical Review B</i> , 1994, 50, 15337-15348.	3.2	603
2	Low-loss subwavelength plastic fiber for terahertz waveguiding. <i>Optics Letters</i> , 2006, 31, 308.	3.3	301
3	Coherent Acoustic Phonon Oscillations in Semiconductor Multiple Quantum Wells with Piezoelectric Fields. <i>Physical Review Letters</i> , 2000, 84, 179-182.	7.8	231
4	Femtosecond investigation of electron thermalization in gold. <i>Physical Review B</i> , 1993, 48, 12365-12368.	3.2	229
5	Multimodal nonlinear spectral microscopy based on a femtosecond Cr:forsterite laser. <i>Optics Letters</i> , 2001, 26, 1909.	3.3	181
6	Higher harmonic generation microscopy for developmental biology. <i>Journal of Structural Biology</i> , 2004, 147, 19-30.	2.8	179
7	Studies of $\ddot{\Gamma}(2)/\dot{\Gamma}(3)$ Tensors in Submicron-Scaled Bio-Tissues by Polarization Harmonics Optical Microscopy. <i>Biophysical Journal</i> , 2004, 86, 3914-3922.	0.5	177
8	In vivo developmental biology study using noninvasive multi-harmonic generation microscopy. <i>Optics Express</i> , 2003, 11, 3093.	3.4	174
9	Optical investigations of the dynamic behavior of GaSb/GaAs quantum dots. <i>Applied Physics Letters</i> , 1996, 68, 1543-1545.	3.3	157
10	Performance of THz fiber-scanning near-field microscopy to diagnose breast tumors. <i>Optics Express</i> , 2011, 19, 19523.	3.4	149
11	Terahertz air-core microstructure fiber. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	136
12	Low-index terahertz pipe waveguides. <i>Optics Letters</i> , 2009, 34, 3457.	3.3	128
13	Modal characteristics of antiresonant reflecting pipe waveguides for terahertz waveguiding. <i>Optics Express</i> , 2010, 18, 309.	3.4	126
14	Efficient Near-IR Hyperthermia and Intense Nonlinear Optical Imaging Contrast on the Gold Nanorod-in-Shell Nanostructures. <i>Journal of the American Chemical Society</i> , 2009, 131, 14186-14187.	13.7	123
15	<i>In Vivo</i> Virtual Biopsy of Human Skin by Using Noninvasive Higher Harmonic Generation Microscopy. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 478-492.	2.9	117
16	Real-time second-harmonic-generation microscopy based on a 2-GHz repetition rate Ti:sapphire laser. <i>Optics Express</i> , 2003, 11, 933.	3.4	107
17	Two-photon absorption study of GaN. <i>Applied Physics Letters</i> , 2000, 76, 439-441.	3.3	97
18	Nonlinear bio-photonics crystal effects revealed with multimodal nonlinear microscopy. <i>Journal of Microscopy</i> , 2002, 208, 190-200.	1.8	89

#	ARTICLE	IF	CITATIONS
19	Title is missing!. Optical and Quantum Electronics, 2002, 34, 1251-1266.	3.3	89
20	Multiharmonic-generation biopsy of skin. Optics Letters, 2003, 28, 2488.	3.3	88
21	In vivo optical biopsy of hamster oral cavity with epi-third-harmonic-generation microscopy. Optics Express, 2006, 14, 6178.	3.4	87
22	Spatial manipulation of nanoacoustic waves with nanoscale spot sizes. Nature Nanotechnology, 2007, 2, 704-708.	31.5	80
23	Molecular Imaging of Cancer Cells Using Plasmon-Resonant-Enhanced Third-Harmonic-Generation in Silver Nanoparticles. Advanced Materials, 2007, 19, 4520-4523.	21.0	79
24	Radiative recombination lifetime measurements of InGaN single quantum well. Applied Physics Letters, 1996, 69, 1936-1938.	3.3	78
25	Optical biopsy of fixed human skin with backward-collected optical harmonics signals. Optics Express, 2005, 13, 8231.	3.4	70
26	High-sensitivity in vivo THz transmission imaging of early human breast cancer in a subcutaneous xenograft mouse model. Optics Express, 2011, 19, 21552.	3.4	70
27	In vivo harmonic generation biopsy of human skin. Journal of Biomedical Optics, 2009, 14, 1.	2.6	69
28	All-terahertz fiber-scanning near-field microscopy. Optics Letters, 2009, 34, 1084.	3.3	68
29	Higher harmonic generation microscopy of in vitro cultured mammal oocytes and embryos. Optics Express, 2008, 16, 11574.	3.4	65
30	Scanning second-harmonic/third-harmonic generation microscopy of gallium nitride. Applied Physics Letters, 2000, 77, 2331-2333.	3.3	63
31	Metal-semiconductor-metal traveling-wave photodetectors. IEEE Photonics Technology Letters, 2001, 13, 623-625.	2.5	59
32	Ultrafast carrier dynamics in ZnO nanorods. Applied Physics Letters, 2005, 87, 023106.	3.3	59
33	In vivo optical virtual biopsy of human oral mucosa with harmonic generation microscopy. Biomedical Optics Express, 2011, 2, 2317.	2.9	59
34	Nonlinear saturation behaviors of high-speed p-i-n photodetectors. Journal of Lightwave Technology, 2000, 18, 203-212.	4.6	58
35	Two-photon fluorescence microscope with a hollow-core photonic crystal fiber. Optics Express, 2004, 12, 6122.	3.4	58
36	Quantitative and qualitative investigation into the impact of focused ultrasound with microbubbles on the triggered release of nanoparticles from vasculature in mouse tumors. Journal of Controlled Release, 2010, 146, 291-298.	9.9	58

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37	In vivo and ex vivo imaging of intra-tissue elastic fibers using third-harmonic-generation microscopy. Optics Express, 2007, 15, 11167.	3.4	57
38	Glycogen synthase kinase 3 β and 3 δ have distinct functions during cardiogenesis of zebrafish embryo. BMC Developmental Biology, 2007, 7, 93.	2.1	57
39	1.2- to 2.2- μ m Tunable Raman Soliton Source Based on a Cr ³⁺ -Forsterite Laser and a Photonic-Crystal Fiber. IEEE Photonics Technology Letters, 2008, 20, 900-902.	2.5	54
40	Rapid virtual hematoxylin and eosin histology of breast tissue specimens using a compact fluorescence nonlinear microscope. Laboratory Investigation, 2018, 98, 150-160.	3.7	54
41	High-resolution simultaneous three-photon fluorescence and third-harmonic-generation microscopy. Microscopy Research and Technique, 2005, 66, 193-197.	2.2	53
42	Quantitative analysis of intrinsic skin aging in dermal papillae by in vivo harmonic generation microscopy. Biomedical Optics Express, 2014, 5, 3266.	2.9	52
43	Noninvasive harmonics optical microscopy for long-term observation of embryonic nervous system development in vivo. Journal of Biomedical Optics, 2006, 11, 054022.	2.6	50
44	Efficient Structure Resonance Energy Transfer from Microwaves to Confined Acoustic Vibrations in Viruses. Scientific Reports, 2016, 5, 18030.	3.3	50
45	Femtosecond Z-scan measurement of GaN. Applied Physics Letters, 1999, 75, 3524-3526.	3.3	49
46	Specular Scattering Probability of Acoustic Phonons in Atomically Flat Interfaces. Physical Review Letters, 2009, 103, 264301.	7.8	49
47	Biocompatible bacteria@Au composites for application in the photothermal destruction of cancer cells. Chemical Communications, 2008, , 4430.	4.1	48
48	Determination of chronological aging parameters in epidermal keratinocytes by in vivo harmonic generation microscopy. Biomedical Optics Express, 2013, 4, 77.	2.9	46
49	THz interferometric imaging using subwavelength plastic fiber based THz endoscopes. Optics Express, 2008, 16, 2494.	3.4	45
50	Probing Hydrophilic Interface of Solid/Liquid-Water by Nanoultrasonics. Scientific Reports, 2014, 4, 6249.	3.3	45
51	Large coherent acoustic-phonon oscillation observed in InGaN/GaN multiple-quantum wells. Applied Physics Letters, 1999, 75, 1249-1251.	3.3	44
52	Terahertz Microchip for Illicit Drug Detection. IEEE Photonics Technology Letters, 2006, 18, 2254-2256.	2.5	44
53	THz acoustic phonon spectroscopy and nanoscopy by using piezoelectric semiconductor heterostructures. Ultrasonics, 2015, 56, 52-65.	3.9	44
54	Higher harmonic generation microscopy of in vitro cultured mammal oocytes and embryos. Optics Express, 2008, 16, 11574-88.	3.4	43

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55	Transmission of light through quantum heterostructures modulated by coherent acoustic phonons. Journal of Applied Physics, 2004, 95, 1114-1121.	2.5	42
56	Higher Harmonic Generation Microscopy. Advances in Biochemical Engineering/Biotechnology, 2005, 95, 17-56.	1.1	42
57	Multiphoton confocal microscopy using a femtosecond Cr:Forsterite laser. Scanning, 2001, 23, 249-254.	1.5	42
58	Investigation on spectral loss characteristics of subwavelength terahertz fibers. Optics Letters, 2007, 32, 1017.	3.3	42
59	Molecular third-harmonic-generation microscopy through resonance enhancement with absorbing dye. Optics Letters, 2008, 33, 387.	3.3	42
60	Microwave resonant absorption of viruses through dipolar coupling with confined acoustic vibrations. Applied Physics Letters, 2009, 94, .	3.3	42
61	Ultrafast carrier thermalization in InN. Applied Physics Letters, 2006, 89, 232114.	3.3	41
62	Epi-third and second harmonic generation microscopic imaging of abnormal enamel. Optics Express, 2008, 16, 11670.	3.4	41
63	Coherent optical control of acoustic phonon oscillations in InGaN/GaN multiple quantum wells. Applied Physics Letters, 2001, 78, 1201-1203.	3.3	40
64	Bending loss of terahertz pipe waveguides. Optics Express, 2010, 18, 26332.	3.4	40
65	Studies of carrier heating in InGaAs/AlGaAs strained-layer quantum well diode lasers using a multiple wavelength pump probe technique. Applied Physics Letters, 1993, 62, 747-749.	3.3	39
66	Measuring plasmon-resonance enhanced third-harmonic $\ddot{\eta}(3)$ of Ag nanoparticles. Applied Physics Letters, 2006, 89, 043122.	3.3	39
67	Cell tracking and detection of molecular expression in live cells using lipid-enclosed CdSe quantum dots as contrast agents for epi-third harmonic generation microscopy. Optics Express, 2008, 16, 9534.	3.4	38
68	Subwavelength Dielectric-Fiber-Based THz Coupler. Journal of Lightwave Technology, 2009, 27, 1489-1495.	4.6	37
69	Noninvasive in vitro and in vivo assessment of epidermal hyperkeratosis and dermal fibrosis in atopic dermatitis. Journal of Biomedical Optics, 2009, 14, 1.	2.6	36
70	Generation of coherent acoustic phonons in strained GaN thin films. Applied Physics Letters, 2001, 79, 3361-3363.	3.3	35
71	Generation of picosecond acoustic pulses using a p-n junction with piezoelectric effects. Applied Physics Letters, 2005, 86, 093110.	3.3	35
72	Gap Opening and Orbital Modification of Superconducting FeSe above the Structural Distortion. Physical Review Letters, 2012, 108, 267002.	7.8	35

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73	120-GHz long-wavelength low-capacitance photodetector with an air-bridged coplanar metal waveguide. IEEE Photonics Technology Letters, 1995, 7, 1477-1479.	2.5	34
74	Biomolecular imaging based on far-red fluorescent protein with a high two-photon excitation action cross section. Optics Letters, 2006, 31, 930.	3.3	34
75	Two-dimensional nanoultrasonic imaging by using acoustic nanowaves. Applied Physics Letters, 2006, 89, 043106.	3.3	34
76	Thickness dependence of optical second harmonic generation in collagen fibrils. Optics Express, 2007, 15, 12005.	3.4	34
77	Optical signal degradation study in fixed human skin using confocal microscopy and higher-harmonic optical microscopy. Optics Express, 2006, 14, 749.	3.4	33
78	Second-harmonic generation imaging of collagen fibers in myocardium for atrial fibrillation diagnosis. Journal of Biomedical Optics, 2010, 15, 026002.	2.6	32
79	Miniaturized video-rate epi-third-harmonic-generation fiber-microscope. Optics Express, 2010, 18, 17382.	3.4	32
80	Optical piezoelectric transducer for nano-ultrasonics. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1404-1414.	3.0	31
81	Integration of CNS survival and differentiation by HIF2 \uparrow . Cell Death and Differentiation, 2011, 18, 1757-1770.	11.2	31
82	Design and analysis of long absorption-length traveling-wave photodetectors. Journal of Lightwave Technology, 2000, 18, 2176-2187.	4.6	30
83	Graphene-to-Substrate Energy Transfer through Out-of-Plane Longitudinal Acoustic Phonons. Nano Letters, 2014, 14, 1317-1323.	9.1	30
84	Photogeneration of coherent shear phonons in orientated wurtzite semiconductors by piezoelectric coupling. Physical Review B, 2009, 80, .	3.2	29
85	Spectral analysis of high-harmonic coherent acoustic phonons in piezoelectric semiconductor multiple quantum wells. Physical Review B, 2003, 67, .	3.2	28
86	Ultrafast transport dynamics of p-i-n photodetectors under high-power illumination. IEEE Photonics Technology Letters, 1998, 10, 135-137.	2.5	27
87	Selective imaging in second-harmonic-generation microscopy by polarization manipulation. Applied Physics Letters, 2007, 91, .	3.3	27
88	In vivo long-term continuous observation of gene expression in zebrafish embryo nerve systems by using harmonic generation microscopy and morphant technology. Journal of Biomedical Optics, 2008, 13, 064041.	2.6	27
89	Multi-photon resonance enhancement of third harmonic generation in human oxyhemoglobin and deoxyhemoglobin. Journal of Biophotonics, 2010, 3, 678-685.	2.3	27
90	Automatic Cell Segmentation and Nuclear-to-Cytoplasmic Ratio Analysis for Third Harmonic Generated Microscopy Medical Images. IEEE Transactions on Biomedical Circuits and Systems, 2013, 7, 158-168.	4.0	27

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91	Nonlinear photoacoustic microscopy via a loss modulation technique: from detection to imaging. Optics Express, 2014, 22, 525.	3.4	27
92	Nonlinear plasmonic imaging techniques and their biological applications. Nanophotonics, 2017, 6, 31-49.	6.0	27
93	Epi-third and second harmonic generation microscopic imaging of abnormal enamel. Optics Express, 2008, 16, 11670-9.	3.4	27
94	Terahertz scanning imaging with a subwavelength plastic fiber. Applied Physics Letters, 2008, 92, .	3.3	26
95	Broadband terahertz ultrasonic transducer based on a laser-driven piezoelectric semiconductor superlattice. Ultrasonics, 2012, 52, 1-4.	3.9	26
96	High-speed and high-power performances of LTG-GaAs based metal-semiconductor-metal traveling-wave-photodetectors in 1.3- μm wavelength regime. IEEE Photonics Technology Letters, 2002, 14, 363-365.	2.5	25
97	Ultrahigh-power-bandwidth product and nonlinear photoconductance performances of low-temperature-grown GaAs-based metal-semiconductor-metal traveling-wave photodetectors. IEEE Photonics Technology Letters, 2002, 14, 1587-1589.	2.5	25
98	Imaging Endogenous Bilirubins with Two-Photon Fluorescence of Bilirubin Dimers. Analytical Chemistry, 2015, 87, 7575-7582.	6.5	25
99	Femtosecond gain dynamics in InGaAs/AlGaAs strained-layer single-quantum-well diode lasers. Applied Physics Letters, 1993, 63, 96-98.	3.3	24
100	Miniaturized multiphoton microscope with a 24Hz frame-rate. Optics Express, 2008, 16, 10501.	3.4	24
101	Generation of frequency-tunable nanoacoustic waves by optical coherent control. Applied Physics Letters, 2005, 87, 093114.	3.3	23
102	Three-dimensional phononic nanocrystal composed of ordered quantum dots. Applied Physics Letters, 2010, 96, .	3.3	23
103	Ultrahigh power-bandwidth-product performance of low-temperature-grown-GaAs based metal-semiconductor-metal traveling-wave photodetectors. Applied Physics Letters, 2002, 80, 4054-4056.	3.3	22
104	Mapping piezoelectric-field distribution in gallium nitride with scanning second-harmonic generation microscopy. Scanning, 2001, 23, 182-192.	1.5	22
105	Anharmonic decay of subterahertz coherent acoustic phonons in GaN. Applied Physics Letters, 2007, 90, 041902.	3.3	22
106	Efficient generation of coherent acoustic phonons in (111) InGaAs/GaAs multiple quantum wells through piezoelectric effects. Applied Physics Letters, 2007, 90, 172102.	3.3	22
107	Femtosecond ultrasonic spectroscopy using a piezoelectric nanolayer: Hypersound attenuation in vitreous silica films. Applied Physics Letters, 2011, 99, 051913.	3.3	22
108	Gigahertz Coherent Guided Acoustic Phonons in AlN/GaN Nanowire Superlattices. Nano Letters, 2013, 13, 1139-1144.	9.1	22

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109	Differential diagnosis of nonmelanoma pigmented skin lesions based on harmonic generation microscopy. <i>Journal of Biomedical Optics</i> , 2014, 19, 036001.	2.6	22
110	Well-width dependent studies of InGaN-GaN single-quantum wells using time-resolved photoluminescence techniques. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1997, 3, 731-738.	2.9	21
111	Direct backward third-harmonic generation in nanostructures. <i>Optics Express</i> , 2010, 18, 7397.	3.4	21
112	High-depth-resolution 3-dimensional radar-imaging system based on a few-cycle W-band photonic millimeter-wave pulse generator. <i>Optics Express</i> , 2013, 21, 14109.	3.4	21
113	Coherent phonons, nanoseismology and THz radiation in InGaN/GaN heterostructures. <i>Superlattices and Microstructures</i> , 2003, 34, 525-529.	3.1	20
114	Ultrafast valence intersubband hole relaxation in InGaN multiple-quantum-well laser diodes. <i>Applied Physics Letters</i> , 2004, 84, 4675-4677.	3.3	20
115	Generation of Coherent Acoustic Phonons in Nitride-Based Semiconductor Nanostructures. <i>Topics in Applied Physics</i> , 0, , 339-394.	0.8	20
116	Compact fiber-delivered Cr:forsterite laser for nonlinear light microscopy. <i>Journal of Biomedical Optics</i> , 2005, 10, 054006.	2.6	20
117	Separated-transport-recombination p-i-n photodiode for high-speed and high-power performance. <i>IEEE Photonics Technology Letters</i> , 2005, 17, 1722-1724.	2.5	20
118	Selective imaging in second-harmonic-generation microscopy with anisotropic radiation. <i>Journal of Biomedical Optics</i> , 2009, 14, 010504.	2.6	20
119	Terahertz pipe-waveguide-based directional couplers. <i>Optics Express</i> , 2011, 19, 26883.	3.4	20
120	Long mean free paths of room-temperature THz acoustic phonons in a high thermal conductivity material. <i>Physical Review B</i> , 2019, 100, .	3.2	20
121	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, .	3.2	19
122	Fiber-based swept-source terahertz radar. <i>Optics Letters</i> , 2010, 35, 1344.	3.3	19
123	Resonant Dipolar Coupling of Microwaves with Confined Acoustic Vibrations in a Rod-shaped Virus. <i>Scientific Reports</i> , 2017, 7, 4611.	3.3	19
124	Slide-free imaging of hematoxylin-eosin stained whole-mount tissues using combined third-harmonic generation and three-photon fluorescence microscopy. <i>Journal of Biophotonics</i> , 2019, 12, e201800341.	2.3	19
125	Femtosecond investigations of spectral hole burning in semiconductor lasers. <i>Applied Physics Letters</i> , 1995, 66, 1650-1652.	3.3	18
126	Edge-coupled membrane terahertz photonic transmitters based on metal-semiconductor-metal traveling-wave photodetectors. <i>Applied Physics Letters</i> , 2002, 81, 5108-5110.	3.3	18

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127	Infrared-based third and second harmonic generation imaging of cornea. Journal of Biomedical Optics, 2009, 14, 044012.	2.6	18
128	Selectively probing vibrations in a plasmonic supracrystal. Applied Physics Letters, 2012, 101, .	3.3	18
129	Third-harmonic generation microscopy reveals dental anatomy in ancient fossils. Optics Letters, 2015, 40, 1354.	3.3	18
130	Studies of carrier dynamics in unintentionally doped gallium nitride bandtail states. Applied Physics Letters, 2001, 78, 2724-2726.	3.3	17
131	Observation of huge nonlinear absorption enhancement near exciton resonance in GaN. Applied Physics Letters, 2003, 83, 3087-3089.	3.3	17
132	A simple terahertz spectrometer based on a low-reflectivity Fabry-Perot interferometer using Fourier transform spectroscopy. Optics Express, 2006, 14, 3840.	3.4	17
133	Characterizing the nanoacoustic superlattice in a phonon cavity using a piezoelectric single quantum well. Applied Physics Letters, 2006, 89, 143103.	3.3	17
134	Observation of femtosecond carrier thermalization time in indium nitride. Journal of Applied Physics, 2008, 103, 123513.	2.5	17
135	The toxic effect of Amiodarone on valve formation in the developing heart of zebrafish embryos. Reproductive Toxicology, 2012, 33, 233-244.	2.9	17
136	In vivo Metabolic Imaging of Insulin with Multiphoton Fluorescence of Human Insulin@Au Nanodots. Small, 2013, 9, 2103-2110.	10.0	17
137	Thermal Boundary Resistance between GaN and Cubic Ice and THz Acoustic Attenuation Spectrum of Cubic Ice from Complex Acoustic Impedance Measurements. Physical Review Letters, 2013, 111, 225901.	7.8	17
138	Carrier-gain dynamics in $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{Al}_y\text{Ga}_{1-y}\text{As}$ strained-layer single-quantum-well diode lasers: Comparison of theory and experiment. Physical Review B, 1994, 50, 8539-8558.	3.2	16
139	Terahertz polarization-sensitive rectangular pipe waveguides. Optics Express, 2011, 19, 21532.	3.4	16
140	Large near resonance third order nonlinearity in GaN. Optical and Quantum Electronics, 2000, 32, 619-640.	3.3	15
141	Device Saturation Behavior of Submillimeter-Wave Membrane Photonic Transmitters. IEEE Photonics Technology Letters, 2004, 16, 873-875.	2.5	15
142	A sub-100fs self-starting Cr:forsterite laser generating 14W output power. Optics Express, 2010, 18, 24085.	3.4	15
143	Magnitude-tunable sub-THz shear phonons in a non-polar GaN multiple-quantum-well p-i-n diode. Applied Physics Letters, 2012, 100, .	3.3	15
144	Air-guided photonic-crystal-fiber pulse-compression delivery of multimegawatt femtosecond laser output for nonlinear-optical imaging and neurosurgery. Applied Physics Letters, 2012, 100, 101104.	3.3	15

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145	Characterization of oral squamous cell carcinoma based on higher-order harmonic generation microscopy. <i>Journal of Biophotonics</i> , 2012, 5, 415-424.	2.3	15
146	Third-harmonic generation susceptibility spectroscopy in free fatty acids. <i>Journal of Biomedical Optics</i> , 2015, 20, 095013.	2.6	15
147	Near-field sub-THz transmission-type image system for vessel imaging in-vivo. <i>Optics Express</i> , 2015, 23, 25058.	3.4	15
148	Additive-color multi-harmonic generation microscopy for simultaneous label-free differentiation of plaques, tangles, and neuronal axons. <i>Biomedical Optics Express</i> , 2020, 11, 571.	2.9	15
149	Reflection property of nano-acoustic wave at the air-GaN interface. <i>Applied Physics Letters</i> , 2004, 85, 4735-4737.	3.3	14
150	Simultaneous four-photon luminescence, third-harmonic generation, and second-harmonic generation microscopy of GaN. <i>Optics Letters</i> , 2005, 30, 2463.	3.3	14
151	Pilot clinical study to investigate the human whole blood spectrum characteristics in the sub-THz region. <i>Optics Express</i> , 2015, 23, 9440.	3.4	14
152	In vivo third-harmonic generation microscopy study on vitiligo patients. <i>Journal of Biomedical Optics</i> , 2019, 25, 1.	2.6	14
153	Slide-free clinical imaging of melanin with absolute quantities using label-free third-harmonic-generation enhancement-ratio microscopy. <i>Biomedical Optics Express</i> , 2020, 11, 3009.	2.9	14
154	Heterodyne nondegenerate pump-probe measurement technique for guided-wave devices. <i>Optics Letters</i> , 1995, 20, 210.	3.3	13
155	Femtosecond dynamics of exciton bleaching in bulk GaN at room temperature. <i>Applied Physics Letters</i> , 2002, 81, 85-87.	3.3	13
156	Ultrashort hole capture time in Mg-doped GaN thin films. <i>Applied Physics Letters</i> , 2002, 81, 3975-3977.	3.3	13
157	Effects of hydration levels on the bandwidth of microwave resonant absorption induced by confined acoustic vibrations. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	13
158	Femtosecond excitation of radial breathing mode in 2-D arrayed GaN nanorods. <i>Optics Express</i> , 2012, 20, 16611.	3.4	13
159	Fractional Thermolysis by Bipolar Radiofrequency Facilitates Cutaneous Delivery of Peptide and siRNA with Minor Loss of Barrier Function. <i>Pharmaceutical Research</i> , 2015, 32, 1704-1713.	3.5	13
160	Triple-optical autocorrelation for direct optical pulse-shape measurement. <i>Applied Physics Letters</i> , 2002, 81, 1402-1404.	3.3	12
161	Nonlinear pulse-shaping phenomena of semiconductor saturable absorber mirror. <i>Applied Physics Letters</i> , 2006, 89, 231106.	3.3	12
162	Virtual biopsy of rat tympanic membrane using higher harmonic generation microscopy. <i>Journal of Biomedical Optics</i> , 2010, 15, 046012.	2.6	12

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163	Femtosecond laser-ultrasonic investigation of plasmonic fields on the metal/gallium nitride interface. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	12
164	In vivo sub-femtoliter resolution photoacoustic microscopy with higher frame rates. <i>Scientific Reports</i> , 2015, 5, 15421.	3.3	12
165	Dietary adaptations in the ultrastructure of dinosaur dentine. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160626.	3.4	12
166	In Situ Monitoring of Chemical Reactions at a Solid-Water Interface by Femtosecond Acoustics. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5430-5437.	4.6	12
167	Comparative analysis of intrinsic skin aging between Caucasian and Asian subjects by slide-free in vivo harmonic generation microscopy. <i>Journal of Biophotonics</i> , 2020, 13, e201960063.	2.3	12
168	Investigating the optical clearing effects of 50% glycerol in ex vivo human skin by harmonic generation microscopy. <i>Scientific Reports</i> , 2021, 11, 329.	3.3	12
169	Differentiating intratumoral melanocytes from Langerhans cells in nonmelanocytic pigmented skin tumors in vivo by label-free third-harmonic generation microscopy. <i>Journal of Biomedical Optics</i> , 2016, 21, 076009.	2.6	12
170	Applying Harmonic Optical Microscopy for Spatial Alignment of Atrial Collagen Fibers. <i>PLoS ONE</i> , 2010, 5, e13917.	2.5	11
171	Terahertz antiresonant-reflecting-hollow-waveguide-based directional coupler operating at antiresonant frequencies. <i>Optics Letters</i> , 2011, 36, 3590.	3.3	11
172	Pore-size dependent THz absorption of nano-confined water. <i>Optics Letters</i> , 2015, 40, 2731.	3.3	11
173	High Sensitivity of T-Ray for Thrombus Sensing. <i>Scientific Reports</i> , 2018, 8, 3948.	3.3	11
174	Multiplying the repetition rate of passive mode-locked femtosecond lasers by an intracavity flat surface with low reflectivity. <i>Optics Letters</i> , 2005, 30, 439.	3.3	10
175	Optoelectronic-based high-efficiency quasi-CW terahertz imaging. <i>IEEE Photonics Technology Letters</i> , 2005, 17, 2406-2408.	2.5	10
176	Resonance-enhanced dipolar interaction between terahertz photons and confined acoustic phonons in nanocrystals. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	10
177	Study on melanin enhanced third harmonic generation in a live cell model. <i>Biomedical Optics Express</i> , 2019, 10, 5716.	2.9	10
178	Piezoelectric-field-enhanced lateral ambipolar diffusion coefficient in InGaN/GaN multiple quantum wells. <i>Applied Physics Letters</i> , 2001, 78, 928-930.	3.3	9
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