

Chi-Kuang Sun

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.

281
papers

6,833
citations

40
h-index

69
g-index

411
ext. papers

8,013
ext. citations

3.6
avg, IF

5.44
L-index

#	Paper	IF	Citations
281	A rapid denoised contrast enhancement method digitally mimicking an adaptive illumination in submicron-resolution neuronal imaging.. <i>IScience</i> , 2022 , 25, 103773	6.1	
280	Construction of a high-NFOM multiphoton microscope with large-angle resonant raster scanning.. <i>STAR Protocols</i> , 2022 , 3, 101330	1.4	
279	Margin Assessment of Extramammary Paget@ Disease Based On Harmonic Generation Microscopy With Deep Neural Networks. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021 , 27, 1-7	3.8	1
278	Presence of intralesional melanocytes as a histopathological feature of actinic keratosis based on in vivo harmonic generation microscopy in Asians. <i>Photodermatology Photoimmunology and Photomedicine</i> , 2021 , 37, 20-27	2.4	3
277	Investigating the optical clearing effects of 50% glycerol in ex vivo human skin by harmonic generation microscopy. <i>Scientific Reports</i> , 2021 , 11, 329	4.9	4
276	. <i>IEEE Access</i> , 2021 , 9, 68746-68757	3.5	2
275	Single-laser-based simultaneous four-wavelength excitation source for femtosecond two-photon fluorescence microscopy. <i>Biomedical Optics Express</i> , 2021 , 12, 4661-4679	3.5	3
274	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021 , 27, 1-10	3.8	0
273	Nyquist-exceeding high voxel rate acquisition in mesoscopic multiphoton microscopy for full-field submicron resolution resolvability. <i>IScience</i> , 2021 , 24, 103041	6.1	2
272	In vivo harmonic generation microscopy for monitoring the height of basal keratinocytes in solar lentiginos after laser depigmentation treatment. <i>Biomedical Optics Express</i> , 2021 , 12, 6129-6142	3.5	0
271	Terahertz Photoacoustic Generation Using Ultrathin Nickel Nanofilms. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 3134-3142	3.8	5
270	Observation of Femtosecond Acoustic Anomaly in a Solid Liquid Interface. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 2987-2993	3.8	2
269	Additive-color multi-harmonic generation microscopy for simultaneous label-free differentiation of plaques, tangles, and neuronal axons. <i>Biomedical Optics Express</i> , 2020 , 11, 571-585	3.5	9
268	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, 3009-3024	3.5	11
267	Ultra-short photoacoustic pulse generation through hot electron pressure in two-dimensional electron gas. <i>Optics Express</i> , 2020 , 28, 34045-34053	3.3	
266	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	3.1	7
265	Studying time-dependent contribution of hot-electron versus lattice-induced thermal-expansion response in ultra-thin Au-nanofilms. <i>Applied Physics Letters</i> , 2020 , 117, 154101	3.4	3

264	Long mean free paths of room-temperature THz acoustic phonons in a high thermal conductivity material. <i>Physical Review B</i> , 2019 , 100,	3.3	15
263	Saturated two-photon excitation fluorescence microscopy for the visualization of cerebral neural networks at millimeters deep depth. <i>Journal of Biophotonics</i> , 2019 , 12, e201800136	3.1	2
262	In vivo third-harmonic generation microscopy study on vitiligo patients. <i>Journal of Biomedical Optics</i> , 2019 , 25, 1-13	3.5	10
261	Slide-free histopathological imaging of hematoxylin-eosin-stained whole mount tissues using Cr:forsterite laser-based nonlinear microscopy 2019 ,		2
260	Study on melanin enhanced third harmonic generation in a live cell model. <i>Biomedical Optics Express</i> , 2019 , 10, 5716-5723	3.5	8
259	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	3.1	13
258	Classification of established atopic dermatitis in children with the in vivo imaging methods. <i>Journal of Biophotonics</i> , 2019 , 12, e201800148	3.1	2
257	High Sensitivity of T-Ray for Thrombus Sensing. <i>Scientific Reports</i> , 2018 , 8, 3948	4.9	10
256	Harmonic generation microscopy of bone microenvironment in vivo. <i>Optics Communications</i> , 2018 , 422, 52-55	2	2
255	Rapid virtual hematoxylin and eosin histology of breast tissue specimens using a compact fluorescence nonlinear microscope. <i>Laboratory Investigation</i> , 2018 , 98, 150-160	5.9	33
254	Femtosecond Acoustics and Terahertz Ultrasonics. <i>EPJ Web of Conferences</i> , 2018 , 195, 00005	0.3	0
253	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	6.4	10
252	Resonant Dipolar Coupling of Microwaves with Confined Acoustic Vibrations in a Rod-shaped Virus. <i>Scientific Reports</i> , 2017 , 7, 4611	4.9	9
251	Nonlinear plasmonic imaging techniques and their biological applications. <i>Nanophotonics</i> , 2017 , 6, 31-496.3		20
250	Extracting elastic properties of an atomically thin interfacial layer by time-domain analysis of femtosecond acoustics. <i>Applied Physics Letters</i> , 2017 , 111, 213101	3.4	5
249	2017 ,		1
248	Detection of malformations in sea urchin plutei exposed to mercuric chloride using different fluorescent techniques. <i>Ecotoxicology and Environmental Safety</i> , 2016 , 123, 72-80	7	2
247	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, 76009	3.5	7

246	Dietary adaptations in the ultrastructure of dinosaur dentine. <i>Journal of the Royal Society Interface</i> , 2016 , 13,	4.1	8
245	Fractional thermolysis by bipolar radiofrequency facilitates cutaneous delivery of peptide and siRNA with minor loss of barrier function. <i>Pharmaceutical Research</i> , 2015 , 32, 1704-13	4.5	13
244	Imaging Endogenous Bilirubins with Two-Photon Fluorescence of Bilirubin Dimers. <i>Analytical Chemistry</i> , 2015 , 87, 7575-82	7.8	19
243	Pilot clinical study to investigate the human whole blood spectrum characteristics in the sub-THz region. <i>Optics Express</i> , 2015 , 23, 9440-51	3.3	13
242	Near-field sub-THz transmission-type image system for vessel imaging in-vivo. <i>Optics Express</i> , 2015 , 23, 25058-71	3.3	13
241	Third-harmonic generation microscopy reveals dental anatomy in ancient fossils. <i>Optics Letters</i> , 2015 , 40, 1354-7	3	14
240	Pore-size dependent THz absorption of nano-confined water. <i>Optics Letters</i> , 2015 , 40, 2731-4	3	9
239	THz acoustic phonon spectroscopy and nanoscopy by using piezoelectric semiconductor heterostructures. <i>Ultrasonics</i> , 2015 , 56, 52-65	3.5	36
238	Relaxation dynamics of surface-adsorbed water molecules in nanoporous silica probed by terahertz spectroscopy. <i>Applied Physics Letters</i> , 2015 , 107, 081607	3.4	5
237	In vivo sub-femtoliter resolution photoacoustic microscopy with higher frame rates. <i>Scientific Reports</i> , 2015 , 5, 15421	4.9	11
236	Investigation of gold/GaN nanorod arrays for hypersonic detection: The effect of periodicity. <i>Applied Physics Letters</i> , 2015 , 107, 163108	3.4	2
235	Third-harmonic generation susceptibility spectroscopy in free fatty acids. <i>Journal of Biomedical Optics</i> , 2015 , 20, 095013	3.5	8
234	A Study on the Fiber Dispersion Effect for the Generation of Quasi-Sinusoidal Terahertz Modulations on Optical Pulses. <i>Journal of Lightwave Technology</i> , 2015 , 33, 4899-4907	4	2
233	Harmonic Generation Microscopy. <i>Topics in Applied Physics</i> , 2015 , 517-536	0.5	
232	Efficient Structure Resonance Energy Transfer from Microwaves to Confined Acoustic Vibrations in Viruses. <i>Scientific Reports</i> , 2015 , 5, 18030	4.9	26
231	Probing hydrophilic interface of solid/liquid-water by nanoultrasonics. <i>Scientific Reports</i> , 2014 , 4, 6249	4.9	36
230	Advances in noninvasive functional imaging of bone. <i>Academic Radiology</i> , 2014 , 21, 281-301	4.3	5
229	Graphene-to-substrate energy transfer through out-of-plane longitudinal acoustic phonons. <i>Nano Letters</i> , 2014 , 14, 1317-23	11.5	22

228	Efficient excitation of guided acoustic waves in semiconductor nanorods through external metallic acoustic transducer. <i>Applied Physics Letters</i> , 2014 , 105, 243101	3-4	7
227	Enhanced detection sensitivity of higher-order vibrational modes of gold nanodisks on top of a GaN nanorod array through localized surface plasmons. <i>Applied Physics Letters</i> , 2014 , 105, 211103	3-4	5
226	Differential diagnosis of nonmelanoma pigmented skin lesions based on harmonic generation microscopy. <i>Journal of Biomedical Optics</i> , 2014 , 19, 36001	3-5	16
225	Quantitative analysis of intrinsic skin aging in dermal papillae by in vivo harmonic generation microscopy. <i>Biomedical Optics Express</i> , 2014 , 5, 3266-79	3-5	31
224	Nonlinear photoacoustic microscopy via a loss modulation technique: from detection to imaging. <i>Optics Express</i> , 2014 , 22, 525-36	3-3	24
223	Realization of multiphoton photoacoustic microscopy via a loss modulation technique 2014 ,		1
222	Automatic cell segmentation and nuclear-to-cytoplasmic ratio analysis for third harmonic generated microscopy medical images. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2013 , 7, 158-68	5-1	19
221	Gold Nanodots: In vivo Metabolic Imaging of Insulin with Multiphoton Fluorescence of Human Insulin-Au Nanodots (Small 12/2013). <i>Small</i> , 2013 , 9, 2102-2102	11	2
220	A novel intravital multi-harmonic generation microscope for early diagnosis of oral cancer 2013 ,		2
219	In vivo metabolic imaging of insulin with multiphoton fluorescence of human insulin-Au nanodots. <i>Small</i> , 2013 , 9, 2103-10, 2102	11	17
218	An all-photonic-crystal-fiber wavelength-tunable source of high-energy sub-100 fs pulses. <i>Optics Communications</i> , 2013 , 289, 123-126	2	7
217	Gigahertz coherent guided acoustic phonons in AlN/GaN nanowire superlattices. <i>Nano Letters</i> , 2013 , 13, 1139-44	11-5	21
216	Two-photon photoacoustics ultrasound measurement by a loss modulation technique 2013 ,		1
215	Determination of chronological aging parameters in epidermal keratinocytes by in vivo harmonic generation microscopy. <i>Biomedical Optics Express</i> , 2013 , 4, 77-88	3-5	33
214	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, 14109-19	3-3	15
213	Virtual spatial overlap modulation microscopy for resolution improvement. <i>Optics Express</i> , 2013 , 21, 30007-18	3-3	7
212	Blu-ray disk lens as the objective of a miniaturized two-photon fluorescence microscope. <i>Optics Express</i> , 2013 , 21, 31604-14	3-3	2
211	Applying tattoo dye as a third-harmonic generation contrast agent for in vivo optical virtual biopsy of human skin. <i>Journal of Biomedical Optics</i> , 2013 , 18, 26012	3-5	8

210	THz dielectric fiber based imaging: In vivo molecular imaging of water 2013 ,		3
209	Thermal Boundary Resistance between GaN and Cubic Ice and THz Acoustic Attenuation Spectrum of Cubic Ice from Complex Acoustic Impedance Measurements. <i>Physical Review Letters</i> , 2013 , 111, 225907	114	15
208	The toxic effect of Amiodarone on valve formation in the developing heart of zebrafish embryos. <i>Reproductive Toxicology</i> , 2012 , 33, 233-44	3-4	13
207	Broadband terahertz ultrasonic transducer based on a laser-driven piezoelectric semiconductor superlattice. <i>Ultrasonics</i> , 2012 , 52, 1-4	3-5	22
206	Propagation, Resonance, and Radiation on Terahertz Optoelectronic Integrated Circuits. <i>IEEE Photonics Journal</i> , 2012 , 4, 699-706	1-8	3
205	Air-guided photonic-crystal-fiber pulse-compression delivery of multimegawatt femtosecond laser output for nonlinear-optical imaging and neurosurgery. <i>Applied Physics Letters</i> , 2012 , 100, 101104	3-4	11
204	Near-field dynamic study of the nanoacoustic effect on the extraordinary transmission in gold nanogratings. <i>Optics Express</i> , 2012 , 20, 16186	3-3	7
203	Gap opening and orbital modification of superconducting FeSe above the structural distortion. <i>Physical Review Letters</i> , 2012 , 108, 267002	7-4	31
202	Characterization of oral squamous cell carcinoma based on higher-harmonic generation microscopy. <i>Journal of Biophotonics</i> , 2012 , 5, 415-24	3-1	12
201	Evaluation of the role of CD207 on Langerhans cells in a murine model of atopic dermatitis by in situ imaging using Cr:forsterite laser-based multimodality nonlinear microscopy. <i>Journal of Biomedical Optics</i> , 2012 , 17, 116007	3-5	5
200	Femtosecond excitation of radial breathing mode in 2-D arrayed GaN nanorods. <i>Optics Express</i> , 2012 , 20, 16611	3-3	12
199	Interferometric detection of extensional modes of GaN nanorods array. <i>Optics Express</i> , 2012 , 20, 18717-23	3-3	9
198	Selectively probing vibrations in a plasmonic supracrystal. <i>Applied Physics Letters</i> , 2012 , 101, 101903	3-4	17
197	Cell segmentation and NC ratio analysis of third harmonic generation virtual biopsy images based on marker-controlled gradient watershed algorithm 2012 ,		1
196	. <i>IEEE Photonics Journal</i> , 2012 , 4, 2307-2314	1-8	4
195	Magnitude-tunable sub-THz shear phonons in a non-polar GaN multiple-quantum-well p-i-n diode. <i>Applied Physics Letters</i> , 2012 , 100, 201905	3-4	14
194	Confined acoustic vibrations in piezoelectric GaN nanorods 2012 ,		2
193	In vivo optical virtual biopsy of human oral mucosa with harmonic generation microscopy. <i>Biomedical Optics Express</i> , 2011 , 2, 2317-28	3-5	45

192	Performance of THz fiber-scanning near-field microscopy to diagnose breast tumors. <i>Optics Express</i> , 2011 , 19, 19523-31	3.3	135
191	Terahertz polarization-sensitive rectangular pipe waveguides. <i>Optics Express</i> , 2011 , 19, 21532-9	3.3	13
190	High-sensitivity in vivo THz transmission imaging of early human breast cancer in a subcutaneous xenograft mouse model. <i>Optics Express</i> , 2011 , 19, 21552-62	3.3	60
189	Terahertz pipe-waveguide-based directional couplers. <i>Optics Express</i> , 2011 , 19, 26883-90	3.3	18
188	Terahertz antiresonant-reflecting-hollow-waveguide-based directional coupler operating at antiresonant frequencies. <i>Optics Letters</i> , 2011 , 36, 3590-2	3	10
187	Integration of CNS survival and differentiation by HIF2 β . <i>Cell Death and Differentiation</i> , 2011 , 18, 1757-70	12.7	27
186	Study of apoptosis induction using fluorescent and higher harmonic generation microscopy techniques in <i>Acartia tonsa</i> nauplii exposed to chronic concentrations of nickel. <i>Chemistry and Ecology</i> , 2011 , 27, 97-104	2.3	3
185	Femtosecond ultrasonic spectroscopy using a piezoelectric nanolayer: Hypersound attenuation in vitreous silica films. <i>Applied Physics Letters</i> , 2011 , 99, 051913	3.4	17
184	Femtosecond optical excitation of coherent acoustic phonons in a piezoelectric p-n junction. <i>Physical Review B</i> , 2011 , 84,	3.3	8
183	Using hole screening effect on hole-phonon interaction to estimate hole density in Mg-doped InN. <i>Applied Physics Letters</i> , 2011 , 98, 252106	3.4	2
182	Elastic stiffness of single-crystalline FeSe measured by picosecond ultrasonics. <i>Journal of Applied Physics</i> , 2011 , 110, 073505	2.5	5
181	Diagnosing hepatocellular carcinoma with the intensity and the lifetime of two-photon red autofluorescences 2011 ,		3
180	Applying harmonic optical microscopy for spatial alignment of atrial collagen fibers. <i>PLoS ONE</i> , 2010 , 5, e13917	3.7	10
179	Second-harmonic generation imaging of collagen fibers in myocardium for atrial fibrillation diagnosis. <i>Journal of Biomedical Optics</i> , 2010 , 15, 026002	3.5	27
178	Virtual biopsy of rat tympanic membrane using higher harmonic generation microscopy. <i>Journal of Biomedical Optics</i> , 2010 , 15, 046012	3.5	10
177	Femtosecond laser-ultrasonic investigation of plasmonic fields on the metal/gallium nitride interface. <i>Applied Physics Letters</i> , 2010 , 97, 201102	3.4	9
176	Observation of sub-100 femtosecond electron cooling time in InN. <i>Applied Physics Letters</i> , 2010 , 96, 052108	3.4	8
175	Three-dimensional phononic nanocrystal composed of ordered quantum dots. <i>Applied Physics Letters</i> , 2010 , 96, 123113	3.4	22

174	GaAs-Based Transverse Junction Superluminescent Diodes With Strain-Compensated InGaAs/AlGaAsP Multiple-Quantum-Wells at 1.1- μ m Wavelength. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 917-919	2.2	2
173	Direct backward third-harmonic generation in nanostructures. <i>Optics Express</i> , 2010 , 18, 7397-406	3.3	17
172	Miniaturized video-rate epi-third-harmonic-generation fiber-microscope. <i>Optics Express</i> , 2010 , 18, 17382-91	3.3	21
171	A sub-100 fs self-starting Cr:forsterite laser generating 1.4 W output power. <i>Optics Express</i> , 2010 , 18, 24085-91	3.3	10
170	Bending loss of terahertz pipe waveguides. <i>Optics Express</i> , 2010 , 18, 26332-8	3.3	32
169	Fiber-based swept-source terahertz radar. <i>Optics Letters</i> , 2010 , 35, 1344-6	3	16
168	Modal characteristics of antiresonant reflecting pipe waveguides for terahertz waveguiding. <i>Optics Express</i> , 2010 , 18, 309-22	3.3	105
167	Terahertz photonic transmitters with a high-gain open-ended rampart slot array antenna 2010 ,		1
166	In Vivo 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	3.8	81
165	Quantitative and qualitative investigation into the impact of focused ultrasound with microbubbles on the triggered release of nanoparticles from vasculature in mouse tumors. <i>Journal of Controlled Release</i> , 2010 , 146, 291-8	11.7	50
164	Multi-photon resonance enhancement of third harmonic generation in human oxyhemoglobin and deoxyhemoglobin. <i>Journal of Biophotonics</i> , 2010 , 3, 678-85	3.1	21
163	A femtosecond Cr ⁴⁺ :forsterite laser generating 1.4W output power 2010 ,		2
162	Photogeneration of coherent shear phonons in orientated wurtzite semiconductors by piezoelectric coupling. <i>Physical Review B</i> , 2009 , 80,	3.3	26
161	Electrically manipulating the optical sensitivity function in quantum wells for nanoacoustic wave detection. <i>Applied Physics Letters</i> , 2009 , 95, 143108	3.4	2
160	Effects of hydration levels on the bandwidth of microwave resonant absorption induced by confined acoustic vibrations. <i>Applied Physics Letters</i> , 2009 , 95, 173702	3.4	9
159	Microwave resonant absorption of viruses through dipolar coupling with confined acoustic vibrations. <i>Applied Physics Letters</i> , 2009 , 94, 043902	3.4	29
158	Infrared-based third and second harmonic generation imaging of cornea. <i>Journal of Biomedical Optics</i> , 2009 , 14, 044012	3.5	15
157	Selective imaging in second-harmonic-generation microscopy with anisotropic radiation. <i>Journal of Biomedical Optics</i> , 2009 , 14, 010504	3.5	16

156	Third and second harmonic generation imaging of human articular cartilage 2009 ,		4
155	Second harmonic generation imaging of the collagen in myocardium for atrial fibrillation diagnosis 2009 ,		2
154	In vivo harmonic generation biopsy of human skin. <i>Journal of Biomedical Optics</i> , 2009 , 14, 060505	3.5	55
153	Noninvasive in vitro and in vivo assessment of epidermal hyperkeratosis and dermal fibrosis in atopic dermatitis. <i>Journal of Biomedical Optics</i> , 2009 , 14, 014008	3.5	26
152	All-terahertz fiber-scanning near-field microscopy. <i>Optics Letters</i> , 2009 , 34, 1084-6	3	53
151	Low-index terahertz pipe waveguides. <i>Optics Letters</i> , 2009 , 34, 3457-9	3	98
150	Subwavelength Dielectric-Fiber-Based THz Coupler. <i>Journal of Lightwave Technology</i> , 2009 , 27, 1489-1495	3	30
149	Continuously Tunable Large-Dynamic-Range Radio-Frequency Phase Shifter Via a Soliton Self-Frequency-Shifted Source and a Dispersive Fiber. <i>IEEE Photonics Technology Letters</i> , 2009 , 21, 313-315	2.2	2
148	Bipolar cascade superluminescent diodes at the 1.04 μ m wavelength regime. <i>IEEE Photonics Technology Letters</i> , 2009 , 21, 328-330	2.2	3
147	Specular scattering probability of acoustic phonons in atomically flat interfaces. <i>Physical Review Letters</i> , 2009 , 103, 264301	7.4	41
146	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, 14186-7	16.4	115
145	1.2- to 2.2- μ m Tunable Raman Soliton Source Based on a Cr : Forsterite Laser and a Photonic-Crystal Fiber. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 900-902	2.2	39
144	Highly Directed Radiation Pattern From a THz Photonic Transmitter With a Two-Dimensional Rampart Slot Array Antenna. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 1042-1044	2.2	1
143	Biocompatible bacteria@Au composites for application in the photothermal destruction of cancer cells. <i>Chemical Communications</i> , 2008 , 4430-2	5.8	39
142	Molecular third-harmonic-generation microscopy through resonance enhancement with absorbing dye. <i>Optics Letters</i> , 2008 , 33, 387-9	3	34
141	THz interferometric imaging using subwavelength plastic fiber based THz endoscopes. <i>Optics Express</i> , 2008 , 16, 2494-501	3.3	38
140	Imaging polyhedral inclusion bodies of nuclear polyhedrosis viruses with second harmonic generation microscopy. <i>Optics Express</i> , 2008 , 16, 5602-8	3.3	7
139	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. <i>Optics Express</i> , 2008 , 16, 9534-48	3.3	30

138	Miniaturized multiphoton microscope with a 24Hz frame-rate. <i>Optics Express</i> , 2008 , 16, 10501-6	3.3	15
137	Higher harmonic generation microscopy of in vitro cultured mammal oocytes and embryos. <i>Optics Express</i> , 2008 , 16, 11574	3.3	50
136	Epi-third and second harmonic generation microscopic imaging of abnormal enamel. <i>Optics Express</i> , 2008 , 16, 11670	3.3	30
135	Transverse-junction superluminescent diodes at the 1.1 microm wavelength regime. <i>Optics Express</i> , 2008 , 16, 16860-6	3.3	3
134	Observation of femtosecond carrier thermalization time in indium nitride. <i>Journal of Applied Physics</i> , 2008 , 103, 123513	2.5	14
133	In vivo long-term continuous observation of gene expression in zebrafish embryo nerve systems by using harmonic generation microscopy and morphant technology. <i>Journal of Biomedical Optics</i> , 2008 , 13, 064041	3.5	24
132	GaAs-based bipolar cascade light-emitting-diodes and superluminescent-diodes at the 1.04- μm wavelength regime 2008 ,		1
131	Terahertz air-core microstructure fiber. <i>Applied Physics Letters</i> , 2008 , 92, 064105	3.4	107
130	Resonance-enhanced dipolar interaction between terahertz photons and confined acoustic phonons in nanocrystals. <i>Applied Physics Letters</i> , 2008 , 92, 093122	3.4	10
129	Terahertz scanning imaging with a subwavelength plastic fiber. <i>Applied Physics Letters</i> , 2008 , 92, 084102,3,4	3.4	19
128	Piezoelectricity-induced terahertz photon absorption by confined acoustic phonons in wurtzite CdSe nanocrystals. <i>Physical Review B</i> , 2008 , 77,	3.3	4
127	Least invasive in vivo imaging using harmonic generation microscopy 2008 ,		1
126	Cr:Forsterite-laser-based fiber-optic nonlinear endoscope with higher efficiencies. <i>Microscopy Research and Technique</i> , 2008 , 71, 559-63	2.8	7
125	Higher harmonic generation microscopy of in vitro cultured mammal oocytes and embryos. <i>Optics Express</i> , 2008 , 16, 11574-88	3.3	40
124	Epi-third and second harmonic generation microscopic imaging of abnormal enamel. <i>Optics Express</i> , 2008 , 16, 11670-9	3.3	22
123	Sub-THz Photonic-Transmitters Based on Separated-Transport-Recombination Photodiodes and a Micromachined Slot Antenna. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 840-842	2.2	3
122	Molecular Imaging of Cancer Cells Using Plasmon-Resonant-Enhanced Third-Harmonic-Generation in Silver Nanoparticles. <i>Advanced Materials</i> , 2007 , 19, 4520-4523	2.4	69
121	Glycogen synthase kinase 3 alpha and 3 beta have distinct functions during cardiogenesis of zebrafish embryo. <i>BMC Developmental Biology</i> , 2007 , 7, 93	3.1	51

120	Spatial manipulation of nanoacoustic waves with nanoscale spot sizes. <i>Nature Nanotechnology</i> , 2007 , 2, 704-8	28.7	71
119	THz Fiber Directional Coupler 2007 ,		2
118	Sub-wavelength THz plastic fibers 2007 , 6472, 38		
117	In vivo Molecular-Resonant Third Harmonic Generation Microscopy of Hemoglobin 2007 ,		3
116	Air-core microstructure fiber for terahertz radiation waveguiding 2007 ,		2
115	Narrow-band detection of propagating coherent acoustic phonons in piezoelectric InGa _{0.5} N _{0.5} GaN multiple-quantum wells. <i>Applied Physics Letters</i> , 2007 , 91, 133101	3.4	8
114	Selective imaging in second-harmonic-generation microscopy by polarization manipulation. <i>Applied Physics Letters</i> , 2007 , 91, 103903	3.4	19
113	In Vivo Continuous imaging of Vertebrate Cardiac Valves for Congenital Heart Disease Study and Medical Drug Screening Using Third Harmonic Generation Microscopy 2007 ,		1
112	Investigation on spectral loss characteristics of subwavelength terahertz fibers. <i>Optics Letters</i> , 2007 , 32, 1017-9	3	34
111	In vivo and ex vivo imaging of intra-tissue elastic fibers using third-harmonic-generation microscopy. <i>Optics Express</i> , 2007 , 15, 11167-77	3.3	47
110	Thickness dependence of optical second harmonic generation in collagen fibrils. <i>Optics Express</i> , 2007 , 15, 12005-10	3.3	29
109	Anharmonic decay of subterahertz coherent acoustic phonons in GaN. <i>Applied Physics Letters</i> , 2007 , 90, 041902	3.4	20
108	Efficient generation of coherent acoustic phonons in (111) InGaAs _{0.5} GaAs multiple quantum wells through piezoelectric effects. <i>Applied Physics Letters</i> , 2007 , 90, 172102	3.4	19
107	Nonlinear pulse-shaping phenomena of semiconductor saturable absorber mirror. <i>Applied Physics Letters</i> , 2006 , 89, 231106	3.4	8
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2	High power performance of ultrahigh bandwidth MSM TWPDs		1
1	Metal-semiconductor-metal traveling wave photodetectors		1