

Andreas Mandelis

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388
papers

6,432
citations

39
h-index

60
g-index

660
ext. papers

7,057
ext. citations

2.6
avg, IF

6.17
L-index

#	Paper	IF	Citations
388	Theory of photopyroelectric spectroscopy of solids. <i>Journal of Applied Physics</i> , 1985 , 57, 4421-4430	2.5	306
387	Diffusion-Wave Fields 2001 ,		216
386	Solid-state sensors for trace hydrogen gas detection. <i>Journal of Applied Physics</i> , 1990 , 68, R1-R30	2.5	182
385	Thermal-wave resonator cavity. <i>Review of Scientific Instruments</i> , 1995 , 66, 4999-5005	1.7	151
384	Diffusion Waves and their Uses. <i>Physics Today</i> , 2000 , 53, 29-34	0.9	147
383	Infrared photocarrier radiometry of semiconductors: Physical principles, quantitative depth profilometry, and scanning imaging of deep subsurface electronic defects. <i>Physical Review B</i> , 2003 , 67,	3.3	136
382	Thermal-wave resonator cavity design and measurements of the thermal diffusivity of liquids. <i>Review of Scientific Instruments</i> , 2000 , 71, 2933-2937	1.7	89
381	Thermal-wave radar: a novel subsurface imaging modality with extended depth-resolution dynamic range. <i>Review of Scientific Instruments</i> , 2009 , 80, 034902	1.7	86
380	Absolute optical absorption coefficient measurements using transverse photothermal deflection spectroscopy. <i>Journal of Applied Physics</i> , 1983 , 54, 3404-3409	2.5	80
379	Thermophotonic radar imaging: An emissivity-normalized modality with advantages over phase lock-in thermography. <i>Applied Physics Letters</i> , 2011 , 98, 163706	3.4	79
378	Temperature dependence of carrier mobility in Si wafers measured by infrared photocarrier radiometry. <i>Applied Physics Letters</i> , 2003 , 82, 4077-4079	3.4	73
377	Structure and the Reflectionless/Refractionless Nature of Parabolic Diffusion-Wave Fields. <i>Physical Review Letters</i> , 2001 , 87,	7.4	68
376	Time-domain photoacoustic spectroscopy of solids. <i>Journal of Applied Physics</i> , 1979 , 50, 4330-4338	2.5	66
375	Truncated-correlation photothermal coherence tomography for deep subsurface analysis. <i>Nature Photonics</i> , 2014 , 8, 635-642	33.9	62
374	Thermal coherence tomography using match filter binary phase coded diffusion waves. <i>Physical Review Letters</i> , 2011 , 107, 165901	7.4	58
373	Photoacoustic frequency-domain depth profiling of continuously inhomogeneous condensed phases: Theory and simulations for the inverse problem. <i>Journal of Applied Physics</i> , 1991 , 70, 1761-1770	2.5	56
372	Laser infrared photothermal radiometry of semiconductors: principles and applications to solid state electronics. <i>Solid-State Electronics</i> , 1998 , 42, 1-15	1.7	54

371	Frequency-domain photothermoacoustics: Alternative imaging modality of biological tissues. <i>Journal of Applied Physics</i> , 2009 , 105, 102029	2.5	53
370	Frequency modulated (FM) time delay photoacoustic and photothermal wave spectroscopies. Technique, instrumentation, and detection. Part I: Theoretical. <i>Review of Scientific Instruments</i> , 1986 , 57, 617-621	1.7	52
369	Thermal diffusivity measurements in the photoacoustic open-cell configuration using simple signal normalization techniques. <i>Journal of Applied Physics</i> , 2001 , 90, 2273-2279	2.5	51
368	Fourier-domain biophotoacoustic subsurface depth selective amplitude and phase imaging of turbid phantoms and biological tissue. <i>Journal of Biomedical Optics</i> , 2006 , 11, 044006	3.5	49
367	Generalized methodology for thermal diffusivity depth profile reconstruction in semi-infinite and finitely thick inhomogeneous solids. <i>Journal of Applied Physics</i> , 1996 , 80, 5570-5578	2.5	47
366	Measurement accuracy analysis of photocarrier radiometric determination of electronic transport parameters of silicon wafers. <i>Journal of Applied Physics</i> , 2005 , 97, 023701	2.5	46
365	Polypyrrole nanoparticles as a thermal transducer of NIR radiation in hot-melt adhesives. <i>Journal of Materials Chemistry</i> , 2007 , 17, 4309		45
364	Development of a laser photothermoacoustic frequency-swept system for subsurface imaging: theory and experiment. <i>Journal of the Acoustical Society of America</i> , 2004 , 116, 3523-33	2.2	45
363	Signal generation mechanisms, intracavity-gas thermal-diffusivity temperature dependence, and absolute infrared emissivity measurements in a thermal-wave resonant cavity. <i>Review of Scientific Instruments</i> , 1998 , 69, 197-203	1.7	45
362	Pyroelectric sensors for the photothermal analysis of condensed phases. <i>Ferroelectrics</i> , 1991 , 118, 379-406		45
361	Frequency modulated (FM) time delay photoacoustic and photothermal wave spectroscopies. Technique, instrumentation, and detection. Part II: Mirage effect spectrometer design and performance. <i>Review of Scientific Instruments</i> , 1986 , 57, 622-629	1.7	45
360	Application of a generalized methodology for quantitative thermal diffusivity depth profile reconstruction in manufactured inhomogeneous steel-based materials. <i>Journal of Applied Physics</i> , 1998 , 83, 3495-3498	2.5	44
359	Photothermal reflectance investigation of processed silicon. I. Room-temperature study of the induced damage and of the annealing kinetics of defects in ion-implanted wafers. <i>Journal of Applied Physics</i> , 1990 , 67, 2815-2821	2.5	44
358	Diagnosis of pit and fissure caries using frequency-domain infrared photothermal radiometry and modulated laser luminescence. <i>Caries Research</i> , 2004 , 38, 497-513	4.2	43
357	Self-normalized photothermal technique for accurate thermal diffusivity measurements in thin metal layers. <i>Review of Scientific Instruments</i> , 2003 , 74, 5219-5225	1.7	43
356	Infrared lock-in carrierography (photocarrier radiometric imaging) of Si solar cells. <i>Journal of Applied Physics</i> , 2010 , 107, 114513	2.5	42
355	Comparison between pulsed laser and frequency-domain photoacoustic modalities: signal-to-noise ratio, contrast, resolution, and maximum depth detectivity. <i>Review of Scientific Instruments</i> , 2011 , 82, 094903	1.7	42
354	Signal-to-noise analysis of biomedical photoacoustic measurements in time and frequency domains. <i>Review of Scientific Instruments</i> , 2010 , 81, 124901	1.7	41

353	Self-consistent photothermal techniques: Application for measuring thermal diffusivity in vegetable oils. <i>Review of Scientific Instruments</i> , 2003 , 74, 700-702	1.7	41
352	Thermal-wave resonant-cavity measurements of the thermal diffusivity of air: A comparison between cavity-length and modulation-frequency scans. <i>International Journal of Thermophysics</i> , 1996 , 17, 1241-1254	2.1	41
351	Signal-to-noise ratio in lock-in amplifier synchronous detection: A generalized communications systems approach with applications to frequency, time, and hybrid (rate window) photothermal measurements. <i>Review of Scientific Instruments</i> , 1994 , 65, 3309-3323	1.7	41
350	Computational Aspects of Laser Radiometric Multiparameter Fit for Carrier Transport Property Measurements in Si Wafers. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 687	3.9	39
349	Photothermal Radiometry with Solid Cylindrical Samples. <i>Journal of Applied Physics</i> , 2004 , 96, 3756-3762	2.5	38
348	Photoacoustic frequency-domain depth profilometry of surface-layer inhomogeneities: Application to laser processed steels. <i>Journal of Applied Physics</i> , 1992 , 71, 6029-6035	2.5	37
347	Accuracy of photocarrier radiometric measurement of electronic transport properties of ion-implanted silicon wafers. <i>Journal of Applied Physics</i> , 2004 , 96, 186-196	2.5	36
346	Nonintrusive, noncontacting frequency-domain photothermal radiometry and luminescence depth profilometry of carious and artificial subsurface lesions in human teeth. <i>Journal of Biomedical Optics</i> , 2004 , 9, 804-19	3.5	36
345	Coupled ac photocurrent and photothermal reflectance response theory of semiconducting p-n junctions. I. <i>Journal of Applied Physics</i> , 1989 , 66, 5572-5583	2.5	35
344	Photopyroelectric thin-film instrumentation and impulse-response detection. Part I: A theoretical model. <i>Review of Scientific Instruments</i> , 1987 , 58, 2018-2023	1.7	35
343	Three-layer photocarrier radiometry model of ion-implanted silicon wafers. <i>Journal of Applied Physics</i> , 2004 , 95, 7832-7840	2.5	34
342	Thermal-wave nondestructive evaluation of cylindrical composite structures using frequency-domain photothermal radiometry. <i>Journal of Applied Physics</i> , 2005 , 97, 014911	2.5	34
341	Thermophysical Properties of Thermal Sprayed Coatings on Carbon Steel Substrates by Photothermal Radiometry. <i>International Journal of Thermophysics</i> , 1999 , 20, 1587-1602	2.1	34
340	Noncontact measurement of transport properties of long-bulk-carrier-lifetime Si wafers using photothermal radiometry. <i>Applied Physics Letters</i> , 1996 , 69, 2522-2524	3.4	34
339	Photothermal wave imaging of metal-oxide-semiconductor field-effect transistor structures. <i>Journal of Applied Physics</i> , 1988 , 63, 92-98	2.5	34
338	Frequency-domain photoacoustic phased array probe for biomedical imaging applications. <i>Optics Letters</i> , 2011 , 36, 4560-2	3	33
337	Thermophotonic lock-in imaging of early demineralized and carious lesions in human teeth. <i>Journal of Biomedical Optics</i> , 2011 , 16, 071402	3.5	33
336	Relative sensitivity of photomodulated reflectance and photothermal infrared radiometry to thermal and carrier plasma waves in semiconductors. <i>Journal of Applied Physics</i> , 1997 , 82, 1853-1859	2.5	33

335	Normalized photoacoustic techniques for thermal diffusivity measurements of buried layers in multilayered systems. <i>Journal of Applied Physics</i> , 2002 , 92, 3047-3055	2.5	33
334	Frequency modulated (FM) time delay photoacoustic and photothermal wave spectroscopies. Technique, instrumentation, and detection. Part III: Mirage effect spectrometer, dynamic range, and comparison to pseudo-random-binary-sequence (PRBS) method. <i>Review of Scientific Instruments</i> , 1986 , 57, 630-635	1.7	33
333	Linear frequency modulation photoacoustic radar: optimal bandwidth and signal-to-noise ratio for frequency-domain imaging of turbid media. <i>Journal of the Acoustical Society of America</i> , 2011 , 130, 1313-24	2.2	32
332	Noninvasive glucose detection in human skin using wavelength modulated differential laser photothermal radiometry. <i>Biomedical Optics Express</i> , 2012 , 3, 3012-21	3.5	32
331	Photothermal reflectance investigation of processed silicon. II. Signal generation and lattice temperature dependence in ion-implanted and amorphous thin layers. <i>Journal of Applied Physics</i> , 1990 , 67, 2822-2830	2.5	32
330	Hamilton-Jacobi formulation and quantum theory of thermal wave propagation in the solid state. <i>Journal of Mathematical Physics</i> , 1985 , 26, 2676-2683	1.2	32
329	Imbalanced charge carrier mobility and Schottky junction induced anomalous current-voltage characteristics of excitonic PbS colloidal quantum dot solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 155, 155-165	6.4	31
328	Detection of interproximal demineralized lesions on human teeth in vitro using frequency-domain infrared photothermal radiometry and modulated luminescence. <i>Journal of Biomedical Optics</i> , 2007 , 12, 034028	3.5	31
327	Controlled Steric Hindrance Enables Efficient Ligand Exchange for Stable, Infrared-Bandgap Quantum Dot Inks. <i>ACS Energy Letters</i> , 2019 , 4, 1225-1230	20.1	30
326	Photothermoacoustic imaging of biological tissues: maximum depth characterization comparison of time and frequency-domain measurements. <i>Journal of Biomedical Optics</i> , 2009 , 14, 044025	3.5	30
325	Theoretical and experimental aspects of three-dimensional infrared photothermal radiometry of semiconductors. <i>Journal of Applied Physics</i> , 1999 , 85, 7392-7397	2.5	30
324	. <i>Journal of Physics A</i> , 1991 , 24, 2485-2505		30
323	Photoacoustic radar imaging signal-to-noise ratio, contrast, and resolution enhancement using nonlinear chirp modulation. <i>Optics Letters</i> , 2010 , 35, 1623-5	3	29
322	High-Precision and High-Resolution Measurements of Thermal Diffusivity and Infrared Emissivity of Water-Methanol Mixtures Using a Pyroelectric Thermal Wave Resonator Cavity: Frequency-Scan Approach. <i>International Journal of Thermophysics</i> , 2005 , 26, 837-854	2.1	29
321	Physical mechanisms of thermal-diffusivity depth-profile generation in a hardened low-alloy Mn, Si, Cr, Mo steel reconstructed by photothermal radiometry. <i>Journal of Applied Physics</i> , 2001 , 89, 7879-7884	2.5	29
320	Time-delay-domain and pseudorandom-noise photoacoustic and photothermal wave processes: a review of the state of the art. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1986 , 33, 590-614	3.2	29
319	Photopyroelectric thin-film instrumentation and impulse-response detection. Part II: Methodology. <i>Review of Scientific Instruments</i> , 1987 , 58, 2024-2032	1.7	29
318	Exciton Lifetime Broadening and Distribution Profiles of PbS Colloidal Quantum Dot Thin Films Using Frequency- and Temperature-Scanned Photocarrier Radiometry. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 23333-23348	3.8	27

3 ¹⁷	Quantitative self-calibrating lock-in carrierographic lifetime imaging of silicon wafers. <i>Applied Physics Letters</i> , 2012 , 101, 242107	3.4	27
3 ¹⁶	In vitro detection and quantification of enamel and root caries using infrared photothermal radiometry and modulated luminescence. <i>Journal of Biomedical Optics</i> , 2008 , 13, 034025	3.5	27
3 ¹⁵	Ion implant dose dependence of photocarrier radiometry at multiple excitation wavelengths. <i>Applied Physics Letters</i> , 2004 , 84, 5219-5221	3.4	27
3 ¹⁴	Quantitative photoacoustic depth profilometry of magnetic field-induced thermal diffusivity inhomogeneity in the liquid crystal octylcyanobiphenyl. <i>Journal of Applied Physics</i> , 1991 , 70, 1771-1777	2.5	27
3 ¹³	Photopyroelectric thermal wave detection via contactless capacitive polyvinylidene fluoride (PVDF)-metal probe-tip coupling. <i>Review of Scientific Instruments</i> , 1989 , 60, 306-316	1.7	27
3 ¹²	Frequency domain photothermal radiometry with spherical solids. <i>Journal of Applied Physics</i> , 2007 , 101, 083503	2.5	26
3 ¹¹	Enhanced truncated-correlation photothermal coherence tomography with application to deep subsurface defect imaging and 3-dimensional reconstructions. <i>Journal of Applied Physics</i> , 2017 , 122, 023103	2.5	25
3 ¹⁰	New Photopyroelectric Technique for Precise Measurements of the Thermal Effusivity of Transparent Liquids. <i>International Journal of Thermophysics</i> , 2003 , 24, 463-471	2.1	25
3 ⁰⁹	Carrier-density-wave transport property depth profilometry using spectroscopic photothermal radiometry of silicon wafers I: Theoretical aspects. <i>Journal of Applied Physics</i> , 2003 , 93, 5236-5243	2.5	24
3 ⁰⁸	Measurements of the thermodynamic equation of state via the pressure dependence of thermophysical properties of air by a thermal-wave resonant cavity. <i>Review of Scientific Instruments</i> , 1998 , 69, 2918-2923	1.7	24
3 ⁰⁷	Frequency-domain theory of laser infrared photothermal radiometric detection of thermal waves generated by diffuse-photon-density wave fields in turbid media. <i>Physical Review E</i> , 2002 , 65, 021909	2.4	23
3 ⁰⁶	Non-destructive depth profiling of laser-processed Zr-2.5 Nb alloy by IR photothermal radiometry. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1992 , 159, 111-118	5.3	23
3 ⁰⁵	Operating characteristics and comparison of photopyroelectric and piezoelectric sensors for trace hydrogen gas detection. II. Piezoelectric quartz-crystal microbalance sensor. <i>Journal of Applied Physics</i> , 1989 , 66, 3986-3992	2.5	23
3 ⁰⁴	Laser-induced photothermal reflectance investigation of silicon damaged by arsenic ion implantation: A temperature study. <i>Applied Physics Letters</i> , 1989 , 54, 2392-2394	3.4	23
3 ⁰³	Highly sensitive broadband differential infrared photoacoustic spectroscopy with wavelet denoising algorithm for trace gas detection. <i>Photoacoustics</i> , 2021 , 21, 100228	9	23
3 ⁰²	Simultaneous dual-wavelength photoacoustic radar imaging using waveform engineering with mismatched frequency modulated excitation. <i>Optics Letters</i> , 2015 , 40, 1145-8	3	22
3 ⁰¹	Quantitative Analysis of Trap-State-Mediated Exciton Transport in Perovskite-Shelled PbS Quantum Dot Thin Films Using Photocarrier Diffusion-Wave Nondestructive Evaluation and Imaging. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 14416-14427	3.8	22
3 ⁰⁰	Coregistered photoacoustic and ultrasonic signatures of early bone density variations. <i>Journal of Biomedical Optics</i> , 2014 , 19, 36015	3.5	22

299	Accurate reconstruction of the thermal conductivity depth profile in case hardened steel. <i>Journal of Applied Physics</i> , 2010 , 107, 083519	2.5	22
298	Nonlinear Dependence of Photocarrier Radiometry Signals from p-Si Wafers on Optical Excitation Intensity. <i>Journal of the Electrochemical Society</i> , 2007 , 154, H983	3.9	22
297	Operating characteristics and comparison of photopyroelectric and piezoelectric sensors for trace hydrogen gas detection. I. Development of a new photopyroelectric sensor. <i>Journal of Applied Physics</i> , 1989 , 66, 3975-3985	2.5	22
296	Silicon solar cell electrical parameter measurements through quantitative lock-in carrierographic (photoluminescence) and thermographic imaging. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013 , 210, 2135-2145	1.6	21
295	Statistical theory and applications of lock-in carrierographic image pixel brightness dependence on multi-crystalline Si solar cell efficiency and photovoltage. <i>Journal of Applied Physics</i> , 2012 , 112, 054505	2.5	21
294	Slow and Fast ultrasonic wave detection improvement in human trabecular bones using Golay code modulation. <i>Journal of the Acoustical Society of America</i> , 2012 , 132, EL222-8	2.2	21
293	Image-enhanced thermal-wave slice diffraction tomography with numerically simulated reconstructions. <i>Inverse Problems</i> , 1997 , 13, 1393-1412	2.3	21
292	Infrared real-time-normalized photopyroelectric measurements of crystalline germanium: Instrumentation and spectroscopy. <i>Review of Scientific Instruments</i> , 1990 , 61, 2360-2367	1.7	21
291	Camera-based high frequency heterodyne lock-in carrierographic (frequency-domain photoluminescence) imaging of crystalline silicon wafers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 405-411	1.6	20
290	Theoretical analysis of coupled diffuse-photon-density and thermal-wave field depth profiles photothermally generated in layered turbid dental structures. <i>Journal of Applied Physics</i> , 2009 , 105, 102022	2.5	20
289	Noncontacting photothermal radiometry of SiO ₂ /Si MOS capacitor structures. <i>Solid-State Electronics</i> , 1997 , 41, 591-597	1.7	20
288	Reconstruction of depth profiles of thermal conductivity of case hardened steels using a three-dimensional photothermal technique. <i>Journal of Applied Physics</i> , 2008 , 104, 113518	2.5	20
287	Simple, accurate, and precise measurements of thermal diffusivity in liquids using a thermal-wave cavity. <i>Review of Scientific Instruments</i> , 2001 , 72, 2649-2652	1.7	20
286	Purely thermal-wave photopyroelectric interferometry. <i>Journal of Applied Physics</i> , 1999 , 85, 8366-8377	2.5	20
285	Measurement of thermal diffusivity of air using photopyroelectric interferometry. <i>Review of Scientific Instruments</i> , 1999 , 70, 2372-2378	1.7	20
284	Quantitative one-dimensional thermal-wave cavity measurements of fluid thermophysical properties through equivalence studies with three-dimensional geometries. <i>Review of Scientific Instruments</i> , 2006 , 77, 064906	1.7	19
283	Temperature- and ligand-dependent carrier transport dynamics in photovoltaic PbS colloidal quantum dot thin films using diffusion-wave methods. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 164, 135-145	6.4	18
282	Correlation with Caries Lesion Depth of The Canary System, DIAGNOdent and ICDAS II. <i>Open Dentistry Journal</i> , 2017 , 11, 679-689	0.8	18

281	Contactless measurement of electrical parameters and estimation of current-voltage characteristics of Si solar cells using the illumination intensity dependence of lock-in carrierography (photoluminescence) images. <i>Journal of Applied Physics</i> , 2013 , 114, 104509	2.5	18
280	Highly depth-resolved chirped pulse photothermal radar for bone diagnostics. <i>Review of Scientific Instruments</i> , 2011 , 82, 074906	1.7	18
279	Case depth determination in heat-treated industrial steel products using photothermal radiometric interferometric phase minima. <i>NDT and E International</i> , 2007 , 40, 158-167	4.1	18
278	Computational thermal-wave slice tomography with backpropagation and transmission reconstructions. <i>Review of Scientific Instruments</i> , 1993 , 64, 3548-3562	1.7	18
277	Theory of second harmonic thermal-wave generation: One-dimensional geometry. <i>International Journal of Thermophysics</i> , 1993 , 14, 321-337	2.1	18
276	Photopyroelectric thin-film instrumentation and impulse-response detection. Part III: Performance and signal recovery techniques. <i>Review of Scientific Instruments</i> , 1987 , 58, 2033-2043	1.7	18
275	The application of backscattered ultrasound and photoacoustic signals for assessment of bone collagen and mineral contents. <i>Quantitative Imaging in Medicine and Surgery</i> , 2015 , 5, 46-56	3.6	18
274	Surface recombination velocity imaging of wet-cleaned silicon wafers using quantitative heterodyne lock-in carrierography. <i>Applied Physics Letters</i> , 2018 , 112, 012105	3.4	17
273	Photothermal tomography for the functional and structural evaluation, and early mineral loss monitoring in bones. <i>Biomedical Optics Express</i> , 2014 , 5, 2488-502	3.5	17
272	Study of the thin-film palladium/hydrogen system by an optical transmittance method. <i>Review of Scientific Instruments</i> , 1996 , 67, 3981-3983	1.7	17
271	Photopyroelectric deconvolution of bulk and surface optical-absorption and nonradiative energy conversion efficiency spectra in Ti:Al ₂ O ₃ crystals. <i>Journal of Applied Physics</i> , 1994 , 75, 8090-8097	2.5	17
270	Optoelectronic transport properties in amorphous/crystalline silicon solar cell heterojunctions measured by frequency-domain photocarrier radiometry: multi-parameter measurement reliability and precision studies. <i>Review of Scientific Instruments</i> , 2015 , 86, 033901	1.7	16
269	Electronic Defect and Contamination Monitoring in Si Wafers Using Spectrally Integrated Photocarrier Radiometry. <i>Journal of the Electrochemical Society</i> , 2006 , 153, G283	3.9	16
268	Deep subsurface electronic defect image contrast and resolution amplification in Si wafers using infrared photocarrier radiometry. <i>Applied Physics Letters</i> , 2004 , 85, 1713-1715	3.4	16
267	Carrier-density-wave transport property depth profilometry using spectroscopic photothermal radiometry of silicon wafers II: Experimental and computational aspects. <i>Journal of Applied Physics</i> , 2003 , 93, 5244-5250	2.5	16
266	Laser infrared photothermal radiometric depth profilometry of steels and its potential in rail track evaluation. <i>NDT and E International</i> , 1999 , 32, 437-443	4.1	16
265	Photoacoustic correlation signal-to-noise ratio enhancement by coherent averaging and optical waveform optimization. <i>Review of Scientific Instruments</i> , 2013 , 84, 104907	1.7	15
264	The Effect of Acoustic Impedance on Subsurface Absorber Geometry Reconstruction using 1D Frequency-Domain Photoacoustics. <i>Photoacoustics</i> , 2015 , 3, 132-142	9	15

263	Optical and thermal depth profile reconstructions of inhomogeneous photopolymerization in dental resins using photothermal waves. <i>Journal of Applied Physics</i> , 2010 , 108, 054902	2.5	15
262	Reconstruction of radial thermal conductivity depth profile in case hardened steel rods. <i>Journal of Applied Physics</i> , 2009 , 105, 083517	2.5	15
261	Robust multiparameter method of evaluating the optical and thermal properties of a layered tissue structure using photothermal radiometry. <i>Applied Optics</i> , 2009 , 48, 3192-203	0.2	15
260	Novel Transmission Open Photoacoustic Cell Configuration for Thermal Diffusivity Measurements in Liquids. <i>International Journal of Thermophysics</i> , 2002 , 23, 605-614	2.1	15
259	Methods for surface roughness elimination from thermal-wave frequency scans in thermally inhomogeneous solids. <i>Journal of Applied Physics</i> , 2001 , 90, 1255-1265	2.5	15
258	Lock-in common-mode rejection demodulation: Measurement technique and applications to thermal-wave detection: Theoretical. <i>Review of Scientific Instruments</i> , 2000 , 71, 2440-2444	1.7	15
257	Self-normalized photothermal techniques for thermal diffusivity measurements. <i>Journal of Applied Physics</i> , 2000 , 88, 6815-6820	2.5	15
256	Step-scan differential Fourier transform infrared photoacoustic spectroscopy (DFTIR-PAS): a spectral deconvolution method for weak absorber detection in the presence of strongly overlapping background absorptions. <i>Optics Letters</i> , 2017 , 42, 1424-1427	3	15
255	Step-scan T cell-based differential Fourier transform infrared photoacoustic spectroscopy (DFTIR-PAS) for detection of ambient air contaminants. <i>Applied Physics B: Lasers and Optics</i> , 2016 , 122, 1	1.9	14
254	Non-destructive measurements of large case depths in hardened steels using the thermal-wave radar. <i>NDT and E International</i> , 2012 , 45, 16-21	4.1	14
253	Broadening effects and ergodicity in deep level photothermal spectroscopy of defect states in semi-insulating GaAs: A combined temperature-, pulse-rate-, and time-domain study of defect state kinetics. <i>Journal of Applied Physics</i> , 2009 , 105, 103712	2.5	14
252	Monitoring of ion implantation in Si with carrier plasma waves using infrared photothermal radiometry. <i>Applied Physics Letters</i> , 1997 , 71, 1531-1533	3.4	14
251	Laser infrared photothermal radiometry of electronic solids: Principles and applications to industrial semiconductor Si wafers. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2000 , 18, 705-708	2.9	14
250	Nonlinear inverse scattering methods for thermal-wave slice tomography: a wavelet domain approach. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1998 , 15, 1545 ^{1.8}	1.8	14
249	Lock-in rate-window thermomodulation (thermal wave) and photomodulation spectrometry. <i>Review of Scientific Instruments</i> , 1992 , 63, 2977-2988	1.7	14
248	Wavelength-Modulated Differential Photoacoustic Spectroscopy (WM-DPAS) for noninvasive early cancer detection and tissue hypoxia monitoring. <i>Journal of Biophotonics</i> , 2016 , 9, 388-95	3.1	14
247	Colloidal quantum dot solar cell electrical parameter non-destructive quantitative imaging using high-frequency heterodyne lock-in carrierography and photocarrier radiometry. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 174, 405-411	6.4	13
246	Noninvasive in-vehicle alcohol detection with wavelength-modulated differential photothermal radiometry. <i>Biomedical Optics Express</i> , 2014 , 5, 2333-40	3.5	13

245	Lock-in and Heterodyne Carrierographic Imaging Characterization of Industrial Multicrystalline Silicon Solar Cells. <i>International Journal of Thermophysics</i> , 2012 , 33, 2095-2102	2.1	13
244	Photothermal determination of thermal diffusivity and polymerization depth profiles of polymerized dental resins. <i>Journal of Applied Physics</i> , 2009 , 106, 114906	2.5	13
243	Noncontact deep level photo-thermal spectroscopy: Technique and application to semi-insulating GaAs Wafers. <i>Applied Physics Letters</i> , 2007 , 90, 062119	3.4	13
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241	Hamiltonian plasma-harmonic oscillator theory: Generalized depth profilometry of electronically continuously inhomogeneous semiconductors and the inverse problem. <i>Journal of Applied Physics</i> , 1996 , 80, 5278-5288	2.5	13
240	Photothermal electrostatics of the Pd-polyvinylidene fluoride photopyroelectric hydrogen gas sensor. <i>Journal of Applied Physics</i> , 1991 , 70, 4496-4504	2.5	13
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