

# Andreas Mandelis

## 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.

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	Review of Scientific Instruments New Products.. <i>Review of Scientific Instruments</i> , <b>2022</b> , 93, 019501	1.7	
387	Design and structural optimization of T-resonators for highly sensitive photoacoustic trace gas detection. <i>Optics and Laser Technology</i> , <b>2022</b> , 148, 107695	4.2	10
386	Non-destructive lock-in thermography of green powder metallurgy component inhomogeneities: A predictive imaging method for manufactured component flaw prevention. <i>NDT and E International</i> , <b>2022</b> , 127, 102603	4.1	1
385	Review of Scientific Instruments New Products.. <i>Review of Scientific Instruments</i> , <b>2022</b> , 93, 029501	1.7	
384	Comparative analysis of single- and multiple-frequency thermal wave radar imaging inspection of glass fiber reinforced polymer (GFRP). <i>International Journal of Extreme Manufacturing</i> , <b>2022</b> , 4, 025201	7.9	1
383	Three-Dimensional Thermophotonic Image Optimization Modalities of Truncated Correlation Photothermal Coherence Tomography.. <i>Journal of Biophotonics</i> , <b>2022</b> , e202200018	3.1	0
382	Review of Scientific Instruments New Products.. <i>Review of Scientific Instruments</i> , <b>2022</b> , 93, 049501	1.7	
381	Review of Scientific Instruments New Products.. <i>Review of Scientific Instruments</i> , <b>2022</b> , 93, 049502	1.7	
380	Photoacoustic Simultaneous Detection of multiple trace gases for industrial park application. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2022</b> ,	0.6	
379	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2022</b> , 93, 059501	1.7	
378	Infrared computer vision in non-destructive imaging: Sharp delineation of subsurface defect boundaries in enhanced truncated correlation photothermal coherence tomography images using K-means clustering. <i>NDT and E International</i> , <b>2021</b> , 125, 102568	4.1	4
377	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 119502	1.7	
376	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 119503	1.7	
375	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 039501	1.7	
374	Highly sensitive broadband differential infrared photoacoustic spectroscopy with wavelet denoising algorithm for trace gas detection. <i>Photoacoustics</i> , <b>2021</b> , 21, 100228	9	23
373	Advanced characterization methods of carrier transport in quantum dot photovoltaic solar cells. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 091101	2.5	4
372	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 049501	1.7	

371	Detection and monitoring of early dental caries and erosion using three-dimensional enhanced truncated-correlation photothermal coherence tomography imaging. <i>Journal of Biomedical Optics</i> , <b>2021</b> , 26,	3.5	1
370	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 059501	1.7	
369	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 069502	1.7	
368	Quantitative Imaging of Defect Distributions in CdZnTe Wafers Using Combined Deep-Level Photothermal Spectroscopy, Photocarrier Radiometry, and Lock-In Carrierography. <i>ACS Applied Electronic Materials</i> , <b>2021</b> , 3, 2551-2563	4	5
367	Laser induced thermoelastic contributions from windows to signal background in a photoacoustic cell. <i>Photoacoustics</i> , <b>2021</b> , 22, 100257	9	7
366	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 079502	1.7	
365	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 029501	1.7	
364	Fully nonlinear photocarrier radiometry / modulated photoluminescence dynamics in semiconductors: Theory and applications to quantitative deconvolution of multiplexed photocarrier density wave interference and recombination processes. <i>Journal of Luminescence</i> , <b>2021</b> , 236, 118875	3.8	4
363	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 089502	1.7	
362	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 099502	1.7	
361	Non-Local Patch Regression Algorithm-Enhanced Differential Photoacoustic Methodology for Highly Sensitive Trace Gas Detection. <i>Chemosensors</i> , <b>2021</b> , 9, 268	4	2
360	Truncated correlation photoacoustic coherence tomography: An axial resolution enhancement imaging modality. <i>Photoacoustics</i> , <b>2021</b> , 23, 100277	9	1
359	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 019502	1.7	
358	Carrier-Density-Wave Multiple Lifetime Imaging in a Multicrystalline Silicon Solar Cell Using Quantitative Heterodyne Lock-In Carrierography and Localized Current/Voltage Characteristics. <i>IEEE Journal of Photovoltaics</i> , <b>2021</b> , 1-12	3.7	1
357	A Microwave-Thermography Hybrid Technique for Breast Cancer Detection. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , <b>2021</b> , 1-1	2.8	3
356	Review of Scientific Instruments New Products.. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 129501	1.7	
355	Non-destructive imaging of ancient marquetries using active thermography and photothermal coherence tomography. <i>Journal of Cultural Heritage</i> , <b>2020</b> , 46, 159-164	2.9	3
354	Quantitative photothermal lock-in thermography imaging of curved surfaces of cylindrical solids. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 195101	2.5	0

353	Mechanical Strength Evaluation of Elastic Materials by Multiphysical Nondestructive Methods: A Review. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 1588	2.6	5
352	Quantitative non-destructive single-frequency thermal-wave-radar imaging of case depths in hardened steels. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 245102	2.5	2
351	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 069501	1.7	
350	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 059502	1.7	
349	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 015111	1.7	
348	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 029501	1.7	
347	Surface recombination velocity on wet-cleaned silicon wafers using heterodyne lock-in carrierography imaging: measurement uniqueness investigation. <i>Semiconductor Science and Technology</i> , <b>2020</b> , 35, 055013	1.8	4
346	Determination of thermophysical properties and density volume fractions of Al <sub>2</sub> O <sub>3</sub> /Y-ZrO <sub>2</sub> layered composite materials using transient thermography and two-stage inverse nonlinear heat conduction analysis. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 045110	2.5	1
345	Photopyroelectric Spectroscopy of Pure Fluids and Liquid Mixtures: Foundations and State-of-the-Art Applications. <i>International Journal of Thermophysics</i> , <b>2020</b> , 41, 1	2.1	3
344	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 119501	1.7	
343	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 129501	1.7	
342	An optoelectronic notch (dip) phenomenon in the heterodyne photocarrier radiometry frequency response of Si wafers: a route to quantitative trap-state dynamic processes in semiconductors. <i>Semiconductor Science and Technology</i> , <b>2020</b> , 35, 115024	1.8	4
341	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 099501	1.7	
340	Lock-in carrierography non-destructive imaging of silicon wafers and silicon solar cells. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 180903	2.5	7
339	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 079502	1.7	
338	Non-invasive in-vivo 3-D imaging of small animals using spatially filtered enhanced truncated-correlation photothermal coherence tomography. <i>Scientific Reports</i> , <b>2020</b> , 10, 13743	4.9	2
337	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 039501	1.7	
336	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 109502	1.7	

335	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 049501	1.7	
334	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 089501	1.7	
333	Fourier-Laplace Spectral Theory for Non-Steady-State Thermal Fields with Applications to Problems in Steady-State Photothermal Linear Frequency Modulation. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	4
332	Interference-free Detection of Lipid-laden Atherosclerotic Plaques by 3D Co-registration of Frequency-Domain Differential Photoacoustic and Ultrasound Radar Imaging. <i>Scientific Reports</i> , <b>2019</b> , 9, 12400	4.9	3
331	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 089501	1.7	
330	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 019501	1.7	
329	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 059501	1.7	
328	Waveform engineering analysis of photoacoustic radar chirp parameters for spatial resolution and SNR optimization. <i>Photoacoustics</i> , <b>2019</b> , 14, 49-66	9	2
327	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 049501	1.7	
326	Controlled Steric Hindrance Enables Efficient Ligand Exchange for Stable, Infrared-Bandgap Quantum Dot Inks. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1225-1230	20.1	30
325	Noninvasive in vivo glucose detection in human finger interstitial fluid using wavelength-modulated differential photothermal radiometry. <i>Journal of Biophotonics</i> , <b>2019</b> , 12, e201800441	2.1	4
324	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 029501	1.7	
323	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 039501	1.7	
322	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 079501	1.7	
321	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 069501	1.7	
320	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 099501	1.7	
319	Frequency-domain differential photoacoustic radar: theory and validation for ultrasensitive atherosclerotic plaque imaging. <i>Journal of Biomedical Optics</i> , <b>2019</b> , 24, 1-12	3.5	4
318	Review of the state of the art in cardiovascular endoscopy imaging of atherosclerosis using photoacoustic techniques with pulsed and continuous-wave optical excitations. <i>Journal of Biomedical Optics</i> , <b>2019</b> , 24, 1-15	3.5	11

317	Truncated-correlation photothermal coherence tomography derivative imaging modality for small animal in vivo early tumor detection. <i>Optics Letters</i> , <b>2019</b> , 44, 675-678	3	9
316	Uniqueness range optimization of photocarrier transport parameter measurements using combined quantitative heterodyne lock-in carrierography imaging and photocarrier radiometry. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 065701	2.5	7
315	3D Dental Subsurface Imaging Using Enhanced Truncated Correlation-Photothermal Coherence Tomography. <i>Scientific Reports</i> , <b>2019</b> , 9, 16788	4.9	6
314	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 109501	1.7	
313	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 129501	1.7	
312	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 119501	1.7	
311	Ultrahigh-Frequency Heterodyne Lock-In Carrierography for Large-Scale Quantitative Multi-Parameter Imaging of Colloidal Quantum Dot Solar Cells. <i>IEEE Journal of Photovoltaics</i> , <b>2019</b> , 9, 132-138	3.7	9
310	Application of linear frequency modulated laser ultrasonic radar in reflective thickness and defect non-destructive testing. <i>NDT and E International</i> , <b>2019</b> , 102, 84-89	4.1	9
309	Temperature- and Size-Dependent Exciton Dynamics in PbS Colloidal Quantum Dot Thin Films Using Combined Photoluminescence Spectroscopy and Photocarrier Radiometry. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 5759-5766	3.8	7
308	Single frequency thermal wave radar: A next-generation dynamic thermography for quantitative non-destructive imaging over wide modulation frequency ranges. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 044901	1.7	11
307	Surface recombination velocity imaging of wet-cleaned silicon wafers using quantitative heterodyne lock-in carrierography. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 012105	3.4	17
306	Photothermal coherence tomography for 3-D visualization and structural non-destructive imaging of a wood inlay. <i>Infrared Physics and Technology</i> , <b>2018</b> , 91, 206-213	2.7	11
305	Characterization of the Mechanical Stress/Strain Performance of Aerospace Alloy Materials Using Frequency-Domain Photoacoustic Ultrasound and Photothermal Methods: An FEM Approach. <i>International Journal of Thermophysics</i> , <b>2018</b> , 39, 1	2.1	1
304	Simultaneous determination of effective carrier lifetime and resistivity of Si wafers using the nonlinear nature of photocarrier radiometric signals. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 15LT01 <sup>3</sup>		10
303	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> , <b>2018</b> , 174, 405-411	6.4	13
302	Fourier-Transform Infrared Differential Photoacoustic Spectroscopy (FTIR-DPAS) for Simultaneous Monitoring of Multiple Air Contaminants/Trace Gases. <i>International Journal of Thermophysics</i> , <b>2018</b> , 39, 1	2.1	4
301	Highly sensitive and specific noninvasive alcohol detection using wavelength-modulated differential photothermal radiometry. <i>Biomedical Optics Express</i> , <b>2018</b> , 9, 4638-4648	3.5	2
300	Quantitative lock-in thermography imaging of thermal-wave spatial profiles and thermophysical property measurements in solids with inner corner geometries using thermal-wave field theory. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 205106	2.5	2

299	Detection of Caries Around Resin-Modified Glass Ionomer and Compomer Restorations Using Four Different Modalities In Vitro. <i>Dentistry Journal</i> , <b>2018</b> , 6,	3.1	2
298	Contactless non-destructive imaging of doping density and electrical resistivity of semiconductor Si wafers using lock-in carrierography. <i>Semiconductor Science and Technology</i> , <b>2018</b> , 33, 12LT01	1.8	7
297	Perspective: Principles and specifications of photothermal imaging methodologies and their applications to non-invasive biomedical and non-destructive materials imaging. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 160903	2.5	11
296	Surface Recombination Velocity Imaging of HF-Etched Si Wafers Using Dynamic Heterodyne Lock-In Carrierography. <i>Solid State Phenomena</i> , <b>2018</b> , 282, 13-18	0.4	2
295	The application of frequency-domain photoacoustics to temperature-dependent measurements of the Grüneisen parameter in lipids. <i>Photoacoustics</i> , <b>2018</b> , 11, 56-64	9	11
294	Evaluation of mechanical performance of NiCo nanocoated aerospace aluminum alloy using quantitative photo-thermo-mechanical radiometry as a non-contact strain gauge. <i>NDT and E International</i> , <b>2017</b> , 87, 44-49	4.1	7
293	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> , <b>2017</b> , 164, 135-145	6.4	18
292	Coded excitation waveform engineering for high frame rate synthetic aperture ultrasound imaging. <i>Ultrasonics</i> , <b>2017</b> , 77, 121-132	3.5	5
291	Imaging cancer with photoacoustic radar. <i>Physics Today</i> , <b>2017</b> , 70, 42-48	0.9	4
290	Photothermal radiometry parametric identifiability theory for reliable and unique nondestructive coating thickness and thermophysical measurements. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 095101	2.5	8
289	Non-destructive thermal-wave-radar imaging of manufactured green powder metallurgy compact flaws (cracks). <i>NDT and E International</i> , <b>2017</b> , 86, 140-152	4.1	9
288	Enhanced truncated-correlation photothermal coherence tomography with application to deep subsurface defect imaging and 3-dimensional reconstructions. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 023103	2.5	25
287	Response to Comment on Photothermal radiometry parametric identifiability theory for reliable and unique nondestructive coating thickness and thermophysical measurements[J. Appl. Phys. 122, 066101 (2017)]. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 066102	2.5	
286	Colloidal quantum dot solar cell power conversion efficiency optimization using analysis of current-voltage characteristics and electrode contact imaging by lock-in carrierography. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2017</b> , 25, 1034-1050	6.8	12
285	Frequency-Domain Laser Ultrasound (FDLU) Non-destructive Evaluation of Stress/Strain Behavior in an Aluminum Alloy. <i>International Journal of Thermophysics</i> , <b>2017</b> , 38, 1	2.1	9
284	Local-stress-induced thermal conductivity anisotropy analysis using non-destructive photo-thermo-mechanical lock-in thermography (PTM-LIT) imaging. <i>NDT and E International</i> , <b>2017</b> , 91, 79-87	4.1	7
283	Study of Exciton Hopping Transport in PbS Colloidal Quantum Dot Thin Films Using Frequency- and Temperature-Scanned Photocarrier Radiometry. <i>International Journal of Thermophysics</i> , <b>2017</b> , 38, 1	2.1	6
282	Quantitative phase-filtered wavelength-modulated differential photoacoustic radar tumor hypoxia imaging toward early cancer detection. <i>Journal of Biophotonics</i> , <b>2017</b> , 10, 1134-1142	3.1	6

281	Multi-Centre Clinical Evaluation of Photothermal Radiometry and Luminescence Correlated with International Benchmarks for Caries Detection. <i>Open Dentistry Journal</i> , <b>2017</b> , 11, 636-647	0.8	9
280	Correlation with Caries Lesion Depth of The Canary System, DIAGNOdent and ICDAS II. <i>Open Dentistry Journal</i> , <b>2017</b> , 11, 679-689	0.8	18
279	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> , <b>2017</b> , 42, 1424-1427	3	15
278	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> , <b>2016</b> , 122, 1	1.9	14
277	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> , <b>2016</b> , 213, 405-411	1.6	20
276	Step-Scan T-Cell Fourier Transform Infrared Photoacoustic Spectroscopy (FTIR-PAS) for Monitoring Environmental Air Pollutants. <i>International Journal of Thermophysics</i> , <b>2016</b> , 37, 1	2.1	11
275	SNR and Contrast Enhancement Techniques for the Photoacoustic Radar Imaging. <i>International Journal of Thermophysics</i> , <b>2016</b> , 37, 1	2.1	3
274	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> , <b>2016</b> , 155, 155-165	6.4	31
273	High-Frame-Rate Synthetic Aperture Ultrasound Imaging Using Mismatched Coded Excitation Waveform Engineering: A Feasibility Study. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2016</b> , 63, 828-41	3.2	8
272	Characterization of an intraluminal differential frequency-domain photoacoustics system <b>2016</b> ,		2
271	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> , <b>2016</b> , 120, 14416-14427	3.8	22
270	Frequency-Domain Photoacoustic Phase Spectroscopy: A Fluence-Independent Approach for Quantitative Probing of Hemoglobin Oxygen Saturation. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2016</b> , 22, 127-136	3.8	11
269	Wavelength-modulated differential photoacoustic radar imager (WM-DPARI): accurate monitoring of absolute hemoglobin oxygen saturation. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 2586-96	3.5	13
268	Co-registered Frequency-Domain Photoacoustic Radar and Ultrasound System for Subsurface Imaging in Turbid Media. <i>International Journal of Thermophysics</i> , <b>2016</b> , 37, 1	2.1	3
267	Quantitative Carrier Density Wave Imaging in Silicon Solar Cells Using Photocarrier Radiometry and Lock-in Carrierography. <i>International Journal of Thermophysics</i> , <b>2016</b> , 37, 1	2.1	8
266	Trap State Effects in PbS Colloidal Quantum Dot Exciton Kinetics Using Photocarrier Radiometry Intensity and Temperature Measurements. <i>International Journal of Thermophysics</i> , <b>2016</b> , 37, 1	2.1	4
265	Step scan T-cell Fourier-transform infrared photoacoustic spectroscopy (FTIR-PAS) for detection of ambient air contaminants. <i>Vibrational Spectroscopy</i> , <b>2016</b> , 87, 94-98	2.1	11
264	Quantitative measurements of charge carrier hopping transport properties in depleted-heterojunction PbS colloidal quantum dot solar cells from temperature dependent current-voltage characteristics. <i>RSC Advances</i> , <b>2016</b> , 6, 93180-93194	3.7	13

263	Non-destructive and non-contacting stress/strain characterization of aerospace metallic alloys using photo-thermo-mechanical radiometry. <i>NDT and E International</i> , <b>2016</b> , 84, 47-53	4.1	8
262	Wavelength-Modulated Differential Photoacoustic Spectroscopy (WM-DPAS) for noninvasive early cancer detection and tissue hypoxia monitoring. <i>Journal of Biophotonics</i> , <b>2016</b> , 9, 388-95	3.1	14
261	Depth Profiling of Electronic Transport Properties in $\text{H}^+$ -Implanted n-Type Silicon. <i>International Journal of Thermophysics</i> , <b>2015</b> , 36, 967-972	2.1	1
260	Non-contact Determination of Local Efficiency of mc-Si Solar Cells Using Quantitative Lock-In Thermographic and Carrierographic (Photoluminescence) Imaging. <i>International Journal of Thermophysics</i> , <b>2015</b> , 36, 987-996	2.1	3
259	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> , <b>2015</b> , 86, 033901	1.7	16
258	Thermally Enhanced Photoacoustic Radar Imaging of Biotissues. <i>International Journal of Thermophysics</i> , <b>2015</b> , 36, 900-904	2.1	1
257	Variational Photocarrier Radiometry Reconstruction of Exciton Lifetime Spectra for a Coupled PbS Colloidal Quantum Dot Thin Film Under Combined AC and DC Laser Excitation. <i>International Journal of Thermophysics</i> , <b>2015</b> , 36, 1358-1365	2.1	2
256	Photoacoustic radar phase-filtered spatial resolution and co-registered ultrasound image enhancement for tumor detection. <i>Biomedical Optics Express</i> , <b>2015</b> , 6, 1003-9	3.5	10
255	Frequency-domain photothermoacoustic and ultrasonic imaging of blood and opto-thermal effects of plasmonic nanoparticle concentrations. <i>Journal of Biomedical Optics</i> , <b>2015</b> , 20, 76009	3.5	4
254	Simultaneous dual-wavelength photoacoustic radar imaging using waveform engineering with mismatched frequency modulated excitation. <i>Optics Letters</i> , <b>2015</b> , 40, 1145-8	3	22
253	Bone Composition Diagnostics: Photoacoustics Versus Ultrasound. <i>International Journal of Thermophysics</i> , <b>2015</b> , 36, 862-867	2.1	8
252	Comparative Study of Thermal-Wave Fields in Bi-layered Semi-cylindrical and Fully Cylindrical Solids. <i>International Journal of Thermophysics</i> , <b>2015</b> , 36, 1131-1136	2.1	
251	Camera-Based Lock-in and Heterodyne Carrierographic Photoluminescence Imaging of Crystalline Silicon Wafers. <i>International Journal of Thermophysics</i> , <b>2015</b> , 36, 1274-1280	2.1	8
250	An absolute calibration method of an ethyl alcohol biosensor based on wavelength-modulated differential photothermal radiometry. <i>Review of Scientific Instruments</i> , <b>2015</b> , 86, 115003	1.7	3
249	The Effect of Acoustic Impedance on Subsurface Absorber Geometry Reconstruction using 1D Frequency-Domain Photoacoustics. <i>Photoacoustics</i> , <b>2015</b> , 3, 132-142	9	15
248	Wavelength-Modulated Differential Photoacoustic Spectroscopy (WM-DPAS): Theory of a High-Sensitivity Methodology for the Detection of Early-Stage Tumors in Tissues. <i>International Journal of Thermophysics</i> , <b>2015</b> , 36, 1305-1311	2.1	9
247	Photoacoustic and ultrasound imaging of cancellous bone tissue. <i>Journal of Biomedical Optics</i> , <b>2015</b> , 20, 076016	3.5	6
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