

Andreas Mandelis

List of Publications by Year in descending order

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402
papers

7,613
citations

70961

41
h-index

110170

64
g-index

661
all docs

661
docs citations

661
times ranked

2821
citing authors

#	ARTICLE	IF	CITATIONS
1	A Microwave-Thermography Hybrid Technique for Breast Cancer Detection. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2022, 6, 153-163.	2.3	6
2	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. NDT and E International, 2022, 125, 102568.	1.7	11
3	Design and structural optimization of T-resonators for highly sensitive photoacoustic trace gas detection. Optics and Laser Technology, 2022, 148, 107695.	2.2	20
4	Non-destructive lock-in thermography of green powder metallurgy component inhomogeneities: A predictive imaging method for manufactured component flaw prevention. NDT and E International, 2022, 127, 102603.	1.7	6
5	Review of Scientific Instruments New Products. Review of Scientific Instruments, 2022, 93, 019501.	0.6	0
6	<i>Review of Scientific Instruments</i> New Products. Review of Scientific Instruments, 2022, 93, 029501.	0.6	0
7	Protocol for a Case Control Study to Evaluate Oral Health as a Biomarker of Child Exposure to Adverse Psychosocial Experiences. International Journal of Environmental Research and Public Health, 2022, 19, 3403.	1.2	1
8	Comparative analysis of single- and multiple-frequency thermal wave radar imaging inspection of glass fiber reinforced polymer (GFRP). International Journal of Extreme Manufacturing, 2022, 4, 025201.	6.3	4
9	Three-dimensional thermophotonic image optimization modalities of truncated correlation photothermal coherence tomography. Journal of Biophotonics, 2022, 15, e202200018.	1.1	3
10	Multispectral truncated-correlation photothermal coherence tomography imaging modality for detection of early stage dental caries. Biomedical Optics Express, 2022, 13, 2772.	1.5	3
11	<i>Review of Scientific Instruments</i> New Products. Review of Scientific Instruments, 2022, 93, 049501.	0.6	0
12	<i>Review of Scientific Instruments</i> New Products. Review of Scientific Instruments, 2022, 93, 049502.	0.6	0
13	Photoacoustic Simultaneous Detection of multiple trace gases for industrial park application. Wuli Xuebao/Acta Physica Sinica, 2022, .	0.2	1
14	<i>Review of Scientific Instruments</i> New Products. Review of Scientific Instruments, 2022, 93, .	0.6	0
15	<i>Review of Scientific Instruments</i> New Products. Review of Scientific Instruments, 2022, 93, .	0.6	0
16	Non-contact stress-strain characterization of aluminum alloy by laser-induced thermal-wave radar (LTR) imaging. NDT and E International, 2022, 131, 102701.	1.7	2
17	Review of Scientific Instruments New Products. Review of Scientific Instruments, 2021, 92, 029501.	0.6	0
18	Review of Scientific Instruments New Products. Review of Scientific Instruments, 2021, 92, 039501.	0.6	0

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19	Highly sensitive broadband differential infrared photoacoustic spectroscopy with wavelet denoising algorithm for trace gas detection. <i>Photoacoustics</i> , 2021, 21, 100228.	4.4	53
20	Advanced characterization methods of carrier transport in quantum dot photovoltaic solar cells. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	11
21	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , 2021, 92, 049501.	0.6	0
22	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> , 2021, 26, .	1.4	3
23	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , 2021, 92, 059501.	0.6	0
24	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , 2021, 92, 069502.	0.6	0
25	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> , 2021, 3, 2551-2563.	2.0	10
26	Laser induced thermoelastic contributions from windows to signal background in a photoacoustic cell. <i>Photoacoustics</i> , 2021, 22, 100257.	4.4	12
27	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , 2021, 92, 079502.	0.6	0
28	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> , 2021, 236, 118075.	1.5	4
29	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , 2021, 92, 089502.	0.6	0
30	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , 2021, 92, 099502.	0.6	0
31	Non-Local Patch Regression Algorithm-Enhanced Differential Photoacoustic Methodology for Highly Sensitive Trace Gas Detection. <i>Chemosensors</i> , 2021, 9, 268.	1.8	4
32	Truncated correlation photoacoustic coherence tomography: An axial resolution enhancement imaging modality. <i>Photoacoustics</i> , 2021, 23, 100277.	4.4	4
33	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , 2021, 92, 019502.	0.6	0
34	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> , 2021, 11, 1458-1469.	1.5	2
35	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , 2021, 92, 119502.	0.6	0
36	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , 2021, 92, 119503.	0.6	0

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37	<i>Review of Scientific Instruments</i> New Products. <i>Review of Scientific Instruments</i> , 2021, 92, 129501.	0.6	0
38	<i>Review of Scientific Instruments</i> New Products. <i>Review of Scientific Instruments</i> , 2020, 91, 099501.	0.6	0
39	Lock-in carrierography non-destructive imaging of silicon wafers and silicon solar cells. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	8
40	<i>Review of Scientific Instruments</i> New Products. <i>Review of Scientific Instruments</i> , 2020, 91, 079502.	0.6	0
41	Non-invasive in-vivo 3-D imaging of small animals using spatially filtered enhanced truncated-correlation photothermal coherence tomography. <i>Scientific Reports</i> , 2020, 10, 13743.	1.6	5
42	<i>Review of Scientific Instruments</i> New Products. <i>Review of Scientific Instruments</i> , 2020, 91, 039501.	0.6	0
43	<i>Review of Scientific Instruments</i> New Products. <i>Review of Scientific Instruments</i> , 2020, 91, 109502.	0.6	0
44	<i>Review of Scientific Instruments</i> New Products. <i>Review of Scientific Instruments</i> , 2020, 91, 049501.	0.6	0
45	<i>Review of Scientific Instruments</i> New Products. <i>Review of Scientific Instruments</i> , 2020, 91, 089501.	0.6	0
46	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> , 2020, 14, .	1.5	7
47	Non-destructive imaging of ancient marquetries using active thermography and photothermal coherence tomography. <i>Journal of Cultural Heritage</i> , 2020, 46, 159-164.	1.5	8
48	Quantitative photothermal lock-in thermography imaging of curved surfaces of cylindrical solids. <i>Journal of Applied Physics</i> , 2020, 127, 195101.	1.1	3
49	Mechanical Strength Evaluation of Elastic Materials by Multiphysical Nondestructive Methods: A Review. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1588.	1.3	10
50	Quantitative non-destructive single-frequency thermal-wave-radar imaging of case depths in hardened steels. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	4
51	<i>Review of Scientific Instruments</i> New Products. <i>Review of Scientific Instruments</i> , 2020, 91, 069501.	0.6	0
52	<i>Review of Scientific Instruments</i> New Products. <i>Review of Scientific Instruments</i> , 2020, 91, 059502.	0.6	0
53	<i>Review of Scientific Instruments</i> New Products. <i>Review of Scientific Instruments</i> , 2020, 91, 015111.	0.6	0
54	<i>Review of Scientific Instruments</i> New Products. <i>Review of Scientific Instruments</i> , 2020, 91, 029501.	0.6	0

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55	Surface recombination velocity on wet-cleaned silicon wafers using heterodyne lock-in carrierography imaging: measurement uniqueness investigation. <i>Semiconductor Science and Technology</i> , 2020, 35, 055013.	1.0	4
56	Determination of thermophysical properties and density volume fractions of Al ₂ O ₃ /Y-ZrO ₂ layered composite materials using transient thermography and two-stage inverse nonlinear heat conduction analysis. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	3
57	Photopyroelectric Spectroscopy of Pure Fluids and Liquid Mixtures: Foundations and State-of-the-Art Applications. <i>International Journal of Thermophysics</i> , 2020, 41, 1.	1.0	7
58	An optoelectronic notch (â€˜dipâ€™) 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> , 2020, 35, 115024.	1.0	4
59	<i>Review of Scientific Instruments</i> New Products. <i>Review of Scientific Instruments</i> , 2020, 91, 129501.	0.6	0
60	<i>Review of Scientific Instruments</i> New Products. <i>Review of Scientific Instruments</i> , 2020, 91, 119501.	0.6	0
61	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , 2019, 90, 079501.	0.6	0
62	<i>Review of Scientific Instruments</i> New Products. <i>Review of Scientific Instruments</i> , 2019, 90, 069501.	0.6	0
63	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , 2019, 90, 099501.	0.6	0
64	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> , 2019, 9, 12400.	1.6	4
65	<i>Review of Scientific Instruments</i> New Products. <i>Review of Scientific Instruments</i> , 2019, 90, 089501.	0.6	0
66	Review of Scientific Instruments New Products. <i>Review of Scientific Instruments</i> , 2019, 90, 019501.	0.6	0
67	<i>Review of Scientific Instruments</i> New Products. <i>Review of Scientific Instruments</i> , 2019, 90, 059501.	0.6	0
68	Waveform engineering analysis of photoacoustic radar chirp parameters for spatial resolution and SNR optimization. <i>Photoacoustics</i> , 2019, 14, 49-66.	4.4	6
69	<i>Review of Scientific Instruments</i> New Products. <i>Review of Scientific Instruments</i> , 2019, 90, 049501.	0.6	0
70	Controlled Steric Hindrance Enables Efficient Ligand Exchange for Stable, Infrared-Bandgap Quantum Dot Inks. <i>ACS Energy Letters</i> , 2019, 4, 1225-1230.	8.8	54
71	Noninvasive in vivo glucose detection in human finger interstitial fluid using wavelengthâ€‘modulated differential photothermal radiometry. <i>Journal of Biophotonics</i> , 2019, 12, e201800441.	1.1	8
72	<i>Review of Scientific Instruments</i> New Products. <i>Review of Scientific Instruments</i> , 2019, 90, 029501.	0.6	0

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73	Review of Scientific Instruments New Products. Review of Scientific Instruments, 2019, 90, 039501.	0.6	0
74	Uniqueness range optimization of photocarrier transport parameter measurements using combined quantitative heterodyne lock-in carrierography imaging and photocarrier radiometry. Journal of Applied Physics, 2019, 125, .	1.1	7
75	3D Dental Subsurface Imaging Using Enhanced Truncated Correlation-Photothermal Coherence Tomography. Scientific Reports, 2019, 9, 16788.	1.6	10
76	Review of Scientific Instruments New Products. Review of Scientific Instruments, 2019, 90, 109501.	0.6	0
77	Review of Scientific Instruments New Products. Review of Scientific Instruments, 2019, 90, 129501.	0.6	0
78	<i>Review of Scientific Instruments</i> New Products. Review of Scientific Instruments, 2019, 90, 119501.	0.6	0
79	Ultrahigh-Frequency Heterodyne Lock-In Carrierography for Large-Scale Quantitative Multi-Parameter Imaging of Colloidal Quantum Dot Solar Cells. IEEE Journal of Photovoltaics, 2019, 9, 132-138.	1.5	9
80	Application of linear frequency modulated laser ultrasonic radar in reflective thickness and defect non-destructive testing. NDT and E International, 2019, 102, 84-89.	1.7	14
81	Frequency-domain differential photoacoustic radar: theory and validation for ultrasensitive atherosclerotic plaque imaging. Journal of Biomedical Optics, 2019, 24, 1.	1.4	6
82	Review of the state of the art in cardiovascular endoscopy imaging of atherosclerosis using photoacoustic techniques with pulsed and continuous-wave optical excitations. Journal of Biomedical Optics, 2019, 24, 1.	1.4	20
83	Truncated-correlation photothermal coherence tomography derivative imaging modality for small animal in vivo early tumor detection. Optics Letters, 2019, 44, 675.	1.7	12
84	Temperature- and Size-Dependent Exciton Dynamics in PbS Colloidal Quantum Dot Thin Films Using Combined Photoluminescence Spectroscopy and Photocarrier Radiometry. Journal of Physical Chemistry C, 2018, 122, 5759-5766.	1.5	8
85	Single frequency thermal wave radar: A next-generation dynamic thermography for quantitative non-destructive imaging over wide modulation frequency ranges. Review of Scientific Instruments, 2018, 89, 044901.	0.6	14
86	Surface recombination velocity imaging of wet-cleaned silicon wafers using quantitative heterodyne lock-in carrierography. Applied Physics Letters, 2018, 112, .	1.5	17
87	Photothermal coherence tomography for 3-D visualization and structural non-destructive imaging of a wood inlay. Infrared Physics and Technology, 2018, 91, 206-213.	1.3	13
88	Characterization of the Mechanical Stressâ€“Strain Performance of Aerospace Alloy Materials Using Frequency-Domain Photoacoustic Ultrasound and Photothermal Methods: An FEM Approach. International Journal of Thermophysics, 2018, 39, 1.	1.0	2
89	Simultaneous determination of effective carrier lifetime and resistivity of Si wafers using the nonlinear nature of photocarrier radiometric signals. Journal Physics D: Applied Physics, 2018, 51, 15LT01.	1.3	13
90	Colloidal quantum dot solar cell electrical parameter non-destructive quantitative imaging using high-frequency heterodyne lock-in carrierography and photocarrier radiometry. Solar Energy Materials and Solar Cells, 2018, 174, 405-411.	3.0	13

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91	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> , 2018, 124, 205106.	1.1	4
92	Detection of Caries Around Resin-Modified Glass Ionomer and Compomer Restorations Using Four Different Modalities In Vitro. <i>Dentistry Journal</i> , 2018, 6, 47.	0.9	6
93	Contactless non-destructive imaging of doping density and electrical resistivity of semiconductor Si wafers using lock-in carrierography. <i>Semiconductor Science and Technology</i> , 2018, 33, 12LT01.	1.0	7
94	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> , 2018, 124, .	1.1	14
95	The application of frequency-domain photoacoustics to temperature-dependent measurements of the Gr ^{1/4} neisen parameter in lipids. <i>Photoacoustics</i> , 2018, 11, 56-64.	4.4	18
96	Fourier-Transform Infrared Differential Photoacoustic Spectroscopy (FTIR-DPAS) for Simultaneous Monitoring of Multiple Air Contaminants/Trace Gases. <i>International Journal of Thermophysics</i> , 2018, 39, 1.	1.0	7
97	Highly sensitive and specific noninvasive in-vivo alcohol detection using wavelength-modulated differential photothermal radiometry. <i>Biomedical Optics Express</i> , 2018, 9, 4638.	1.5	4
98	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> , 2017, 87, 44-49.	1.7	8
99	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.	3.0	24
100	Coded excitation waveform engineering for high frame rate synthetic aperture ultrasound imaging. <i>Ultrasonics</i> , 2017, 77, 121-132.	2.1	8
101	Imaging cancer with photoacoustic radar. <i>Physics Today</i> , 2017, 70, 42-48.	0.3	4
102	Photothermal radiometry parametric identifiability theory for reliable and unique nondestructive coating thickness and thermophysical measurements. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	9
103	Non-destructive thermal-wave-radar imaging of manufactured green powder metallurgy compact flaws (cracks). <i>NDT and E International</i> , 2017, 86, 140-152.	1.7	10
104	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, .	1.1	33
105	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> , 2017, 122, 066102.	1.1	0
106	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> , 2017, 25, 1034-1050.	4.4	14
107	Frequency-Domain Laser Ultrasound (FDLU) Non-destructive Evaluation of Stress-Strain Behavior in an Aluminum Alloy. <i>International Journal of Thermophysics</i> , 2017, 38, 1.	1.0	11
108	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> , 2017, 91, 79-87.	1.7	10

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109	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> , 2017, 38, 1.	1.0	7
110	Quantitative phase-filtered wavelength-modulated differential photoacoustic radar tumor hypoxia imaging toward early cancer detection. <i>Journal of Biophotonics</i> , 2017, 10, 1134-1142.	1.1	8
111	Multi-Centre Clinical Evaluation of Photothermal Radiometry and Luminescence Correlated with International Benchmarks for Caries Detection. <i>Open Dentistry Journal</i> , 2017, 11, 636-647.	0.2	11
112	Colloidal Quantum Dot Solar Cell Electrical Parameter Imaging Using Camera-based High-frequency Heterodyne Lock-in Carrierography. , 2017, , .		0
113	Correlation with Caries Lesion Depth of The Canary System, DIAGNOdent and ICDAS II. <i>Open Dentistry Journal</i> , 2017, 11, 679-689.	0.2	24
114	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.	1.7	19
115	Wavelength-modulated differential photoacoustic radar imager (WM-DPARI): accurate monitoring of absolute hemoglobin oxygen saturation. <i>Biomedical Optics Express</i> , 2016, 7, 2586.	1.5	13
116	Co-registered Frequency-Domain Photoacoustic Radar and Ultrasound System for Subsurface Imaging in Turbid Media. <i>International Journal of Thermophysics</i> , 2016, 37, 1.	1.0	3
117	Quantitative Carrier Density Wave Imaging in Silicon Solar Cells Using Photocarrier Radiometry and Lock-in Carrierography. <i>International Journal of Thermophysics</i> , 2016, 37, 1.	1.0	8
118	Trap State Effects in PbS Colloidal Quantum Dot Exciton Kinetics Using Photocarrier Radiometry Intensity and Temperature Measurements. <i>International Journal of Thermophysics</i> , 2016, 37, 1.	1.0	4
119	Step scan T-cell Fourier-transform infrared photoacoustic spectroscopy (FTIR-PAS) for detection of ambient air contaminants. <i>Vibrational Spectroscopy</i> , 2016, 87, 94-98.	1.2	12
120	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> , 2016, 6, 93180-93194.	1.7	17
121	Non-destructive and non-contacting stress-strain characterization of aerospace metallic alloys using photo-thermo-mechanical radiometry. <i>NDT and E International</i> , 2016, 84, 47-53.	1.7	11
122	Wavelength-Modulated Differential Photoacoustic Spectroscopy (WM-DPAS) for noninvasive early cancer detection and tissue hypoxia monitoring. <i>Journal of Biophotonics</i> , 2016, 9, 388-395.	1.1	20
123	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.	1.1	14
124	Camera-based high frequency heterodyne lock-in carrierographic (frequency-domain) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td Materials Science, 2016, 213, 405-411.	0.8	24
125	Step-Scan T-Cell Fourier Transform Infrared Photoacoustic Spectroscopy (FTIR-PAS) for Monitoring Environmental Air Pollutants. <i>International Journal of Thermophysics</i> , 2016, 37, 1.	1.0	14
126	SNR and Contrast Enhancement Techniques for the Photoacoustic Radar Imaging. <i>International Journal of Thermophysics</i> , 2016, 37, 1.	1.0	4

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127	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.	3.0	37
128	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> , 2016, 63, 828-841.	1.7	12
129	Characterization of an intraluminal differential frequency-domain photoacoustics system. , 2016, , .		2
130	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.	1.5	26
131	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> , 2016, 22, 127-136.	1.9	13
132	An absolute calibration method of an ethyl alcohol biosensor based on wavelength-modulated differential photothermal radiometry. <i>Review of Scientific Instruments</i> , 2015, 86, 115003.	0.6	5
133	The Effect of Acoustic Impedance on Subsurface Absorber Geometry Reconstruction using 1D Frequency-Domain Photoacoustics. <i>Photoacoustics</i> , 2015, 3, 132-142.	4.4	18
134	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> , 2015, 36, 1305-1311.	1.0	10
135	Photoacoustic and ultrasound imaging of cancellous bone tissue. <i>Journal of Biomedical Optics</i> , 2015, 20, 076016.	1.4	14
136	UV Laser Photocarrier Radiometry of c-Silicon with Surface Thin Hydrogenated Amorphous Si Film. <i>International Journal of Thermophysics</i> , 2015, 36, 1037-1044.	1.0	0
137	Combined Photoacoustic Ultrasound and Beam Deflection Signal Monitoring of Gold Nanoparticle Agglomerate Concentrations in Tissue Phantoms Using a Pulsed Nd:YAG Laser. <i>International Journal of Thermophysics</i> , 2015, 36, 880-890.	1.0	12
138	Depth Profiling of Electronic Transport Properties in H^+ Implanted n-Type Silicon. <i>International Journal of Thermophysics</i> , 2015, 36, 967-972.	1.0	1
139	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> , 2015, 36, 987-996.	1.0	3
140	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.	0.6	16
141	Editorial for Appointment of New IJT Editor-in-Chief. <i>International Journal of Thermophysics</i> , 2015, 36, 3-4.	1.0	0
142	Thermally Enhanced Photoacoustic Radar Imaging of Biotissues. <i>International Journal of Thermophysics</i> , 2015, 36, 900-904.	1.0	1
143	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> , 2015, 36, 1358-1365.	1.0	2
144	Photoacoustic radar phase-filtered spatial resolution and co-registered ultrasound image enhancement for tumor detection. <i>Biomedical Optics Express</i> , 2015, 6, 1003.	1.5	12

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145	Frequency-domain photoacoustic and ultrasonic imaging of blood and opto-thermal effects of plasmonic nanoparticle concentrations. <i>Journal of Biomedical Optics</i> , 2015, 20, 076009.	1.4	6
146	Simultaneous dual-wavelength photoacoustic radar imaging using waveform engineering with mismatched frequency modulated excitation. <i>Optics Letters</i> , 2015, 40, 1145.	1.7	29
147	Bone Composition Diagnostics: Photoacoustics Versus Ultrasound. <i>International Journal of Thermophysics</i> , 2015, 36, 862-867.	1.0	11
148	Comparative Study of Thermal-Wave Fields in Bi-layered Semi-cylindrical and Fully Cylindrical Solids. <i>International Journal of Thermophysics</i> , 2015, 36, 1131-1136.	1.0	0
149	Camera-Based Lock-in and Heterodyne Carrierographic Photoluminescence Imaging of Crystalline Silicon Wafers. <i>International Journal of Thermophysics</i> , 2015, 36, 1274-1280.	1.0	9
150	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.	1.1	21
151	Truncated-correlation photothermal coherence tomography for deep subsurface analysis. <i>Nature Photonics</i> , 2014, 8, 635-642.	15.6	76
152	Noninvasive in-vehicle alcohol detection with wavelength-modulated differential photothermal radiometry. <i>Biomedical Optics Express</i> , 2014, 5, 2333.	1.5	20
153	Photothermal tomography for the functional and structural evaluation, and early mineral loss monitoring in bones. <i>Biomedical Optics Express</i> , 2014, 5, 2488.	1.5	25
154	Thermally enhanced signal strength and SNR improvement of photoacoustic radar module. <i>Biomedical Optics Express</i> , 2014, 5, 2785.	1.5	9
155	Quantitative heterodyne lock-in carrierographic imaging of silicon wafers and solar cells. , 2014, , .		5
156	Truncated-correlation photothermal coherence tomography of artificially demineralized animal bones: two- and three-dimensional markers for mineral loss monitoring. <i>Journal of Biomedical Optics</i> , 2014, 19, 026015.	1.4	14
157	Coregistered photoacoustic and ultrasonic signatures of early bone density variations. <i>Journal of Biomedical Optics</i> , 2014, 19, 036015.	1.4	33
158	Variational Reconstruction of Exciton Multipath Deexcitation Lifetime Spectra in Coupled PbS Colloidal Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2014, 118, 19484-19491.	1.5	8
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