

Lei Dong

List of Publications by Year in descending order

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306
papers

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10986

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times ranked

9373
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#	ARTICLE	IF	CITATIONS
1	Evaluation of Two-Voltage and Three-Voltage Linear Methods for Deriving Ion Recombination Correction Factors in Proton FLASH Irradiation. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 263-270.	3.7	7
2	Development of Ultra-High Dose-Rate (FLASH) Particle Therapy. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 252-262.	3.7	17
3	Quartz-enhanced photoacoustic spectroscopy for multi-gas detection: A review. Analytica Chimica Acta, 2022, 1202, 338894.	5.4	79
4	Compact QEPAS humidity sensor in SF6 buffer gas for high-voltage gas power systems. Photoacoustics, 2022, 25, 100319.	7.8	33
5	Ppb-level gas detection using on-beam quartz-enhanced photoacoustic spectroscopy based on a 28kHz tuning fork. Photoacoustics, 2022, 25, 100321.	7.8	57
6	Compact quartz-enhanced photoacoustic sensor for ppb-level ambient NO2 detection by use of a high-power laser diode and a grooved tuning fork. Photoacoustics, 2022, 25, 100325.	7.8	20
7	Calibration-free mid-infrared exhaled breath sensor based on BF-QEPAS for real-time ammonia measurements at ppb level. Sensors and Actuators B: Chemical, 2022, 358, 131510.	7.8	38
8	Advanced Topics in Particle Radiotherapy. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 247-251.	3.7	0
9	High-concentration methane and ethane QEPAS detection employing partial least squares regression to filter out energy relaxation dependence on gas matrix composition. Photoacoustics, 2022, 26, 100349.	7.8	41
10	Elliptical-tube off-beam quartz-enhanced photoacoustic spectroscopy. Applied Physics Letters, 2022, 120, .	3.3	9
11	Quartz-enhanced photoacoustic NH3 sensor exploiting a large-prong-spacing quartz tuning fork and an optical fiber amplifier for biomedical applications. Photoacoustics, 2022, 26, 100363.	7.8	25
12	Position effect of laser beam waist in quartz-enhanced photoacoustic spectroscopy. Infrared Physics and Technology, 2022, 125, 104271.	2.9	5
13	Numerical simulation of laser-induced plasma in background gas considering multiple interaction processes. Plasma Science and Technology, 2021, 23, 035001.	1.5	3
14	H2S quartz-enhanced photoacoustic spectroscopy sensor employing a liquid-nitrogen-cooled THz quantum cascade laser operating in pulsed mode. Photoacoustics, 2021, 21, 100219.	7.8	37
15	Quartz-enhanced photoacoustic spectroscopy exploiting low-frequency tuning forks as a tool to measure the vibrational relaxation rate in gas species. Photoacoustics, 2021, 21, 100227.	7.8	43
16	Quartz-enhanced photoacoustic spectroscopy for CO detection in SF6 decomposition. , 2021, , .		0
17	Quartz tuning forks employed as photodetectors in TDLAS sensors. , 2021, , .		0
18	Multiple-sound-source-excitation quartz-enhanced photoacoustic spectroscopy based on a single-line spot pattern multi-pass cell. Applied Physics Letters, 2021, 118, .	3.3	16

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19	Palm-sized methane TDLAS sensor based on a mini-multi-pass cell and a quartz tuning fork as a thermal detector. <i>Optics Express</i> , 2021, 29, 12357.	3.4	33
20	Laser induced thermoelastic contributions from windows to signal background in a photoacoustic cell. <i>Photoacoustics</i> , 2021, 22, 100257.	7.8	12
21	High and flat spectral responsivity of quartz tuning fork used as infrared photodetector in tunable diode laser spectroscopy. <i>Applied Physics Reviews</i> , 2021, 8, .	11.3	76
22	Increase in Superficial Dose in Whole-Breast Irradiation With Halcyon Straight-Through Linac Compared With Traditional C-arm Linac With Flattening Filter: InÁvivo Dosimetry and Planning Study. <i>Advances in Radiation Oncology</i> , 2020, 5, 120-126.	1.2	18
23	Broadband detection of methane and nitrous oxide using a distributed-feedback quantum cascade laser array and quartz-enhanced photoacoustic sensing. <i>Photoacoustics</i> , 2020, 17, 100159.	7.8	47
24	New Developments in Quartz-Enhanced Photoacoustic Sensing Real-World Applications. , 2020, , .		2
25	Ultra-repeatability measurement of the coal calorific value by XRF assisted LIBS. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2928-2934.	3.0	11
26	Partial Least-Squares Regression as a Tool to Retrieve Gas Concentrations in Mixtures Detected Using Quartz-Enhanced Photoacoustic Spectroscopy. <i>Analytical Chemistry</i> , 2020, 92, 11035-11043.	6.5	42
27	Mid-Infrared Quartz-Enhanced Photoacoustic Sensor for ppb-Level CO Detection in a SF ₆ Gas Matrix Exploiting a T-Grooved Quartz Tuning Fork. <i>Analytical Chemistry</i> , 2020, 92, 13922-13929.	6.5	42
28	Quartz Enhanced Conductance Spectroscopy for Polymer Nano-Mechanical Thermal Analysis. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4954.	2.5	3
29	Three-Dimensional Printed Miniature Fiber-Coupled Multipass Cells with Dense Spot Patterns for ppb-Level Methane Detection Using a Near-IR Diode Laser. <i>Analytical Chemistry</i> , 2020, 92, 13034-13041.	6.5	67
30	Species distribution in laser-induced plasma on the surface of binary miscible alloy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 173, 105987.	2.9	2
31	Quartz-enhanced photoacoustic spectroscopy for hydrocarbon trace gas detection and petroleum exploration. <i>Fuel</i> , 2020, 277, 118118.	6.4	43
32	Initial Clinical Experience Treating Patients With Gynecologic Cancers on a 6MV Flattening Filter Free O-Ring Linear Accelerator. <i>Advances in Radiation Oncology</i> , 2020, 5, 920-928.	1.2	4
33	Generalized optical design of two-spherical-mirror multi-pass cells with dense multi-circle spot patterns. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	20
34	Compact and Highly Sensitive NO ₂ Photoacoustic Sensor for Environmental Monitoring. <i>Molecules</i> , 2020, 25, 1201.	3.8	34
35	Quartz Enhanced Photoacoustic Detection Based on an Elliptical Laser Beam. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1197.	2.5	3
36	ppb-Level SO ₂ Photoacoustic Sensors with a Suppressed Absorption-Desorption Effect by Using a 7.41 μ m External-Cavity Quantum Cascade Laser. <i>ACS Sensors</i> , 2020, 5, 549-556.	7.8	79

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37	Narrowband Perfect Absorber Based on Dielectric-Metal Metasurface for Surface-Enhanced Infrared Sensing. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2295.	2.5	20
38	Concentric multipass cell enhanced double-pulse laser-induced breakdown spectroscopy for sensitive elemental analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 168, 105851.	2.9	9
39	Light-induced thermo-elastic effect in quartz tuning forks exploited as a photodetector in gas absorption spectroscopy. <i>Optics Express</i> , 2020, 28, 19074.	3.4	51
40	Quartz-enhanced photoacoustic spectroscopy exploiting a fast and wideband electro-mechanical light modulator. <i>Optics Express</i> , 2020, 28, 27966.	3.4	3
41	N ₂ -cooled THz quartz-enhanced photoacoustic sensor operating in pulsed mode for hydrogen sulfide detection in the part-per-billion concentration range. , 2020, , .		0
42	Atmospheric CH ₄ measurement near a landfill using an ICL-based QEPAS sensor with V-T relaxation self-calibration. <i>Sensors and Actuators B: Chemical</i> , 2019, 297, 126753.	7.8	127
43	Species distribution in laser-induced plasma on the surface of binary immiscible alloy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 158, 105644.	2.9	9
44	A Super-Learner Model for Tumor Motion Prediction and Management in Radiation Therapy: Development and Feasibility Evaluation. <i>Scientific Reports</i> , 2019, 9, 14868.	3.3	22
45	Dual-Gas Quartz-Enhanced Photoacoustic Sensor for Simultaneous Detection of Methane/Nitrous Oxide and Water Vapor. <i>Analytical Chemistry</i> , 2019, 91, 12866-12873.	6.5	53
46	Acoustic Coupling between Resonator Tubes in Quartz-Enhanced Photoacoustic Spectrophones Employing a Large Prong Spacing Tuning Fork. <i>Sensors</i> , 2019, 19, 4109.	3.8	26
47	Report of the <sc>AAPM TG</sc>â€256 on the relative biological effectiveness of proton beams in radiation therapy. <i>Medical Physics</i> , 2019, 46, e53-e78.	3.0	189
48	Robust beam orientation optimization for intensityâ€modulated proton therapy. <i>Medical Physics</i> , 2019, 46, 3356-3370.	3.0	28
49	Characterization of the Megavoltage Cone-Beam Computed Tomography (MV-CBCT) System on Halcyon TM for IGRT: Image Quality Benchmark, Clinical Performance, and Organ Doses. <i>Frontiers in Oncology</i> , 2019, 9, 496.	2.8	11
50	Design and commissioning of an image-guided small animal radiation platform and quality assurance protocol for integrated proton and x-ray radiobiology research. <i>Physics in Medicine and Biology</i> , 2019, 64, 135013.	3.0	22
51	Cavity-enhanced photoacoustic sensor based on a whispering-gallery-mode diode laser. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 1905-1911.	3.1	15
52	Influence of intravenous contrast agent on dose calculation in proton therapy using dual energy CT. <i>Physics in Medicine and Biology</i> , 2019, 64, 125024.	3.0	14
53	Ppb-Level Quartz-Enhanced Photoacoustic Detection of Carbon Monoxide Exploiting a Surface Grooved Tuning Fork. <i>Analytical Chemistry</i> , 2019, 91, 5834-5840.	6.5	67
54	Simultaneous multi-gas detection between 3 and 4 μ m based on a 2.5-m multipass cell and a tunable Fabry-PÃ©rot filter detector. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 216, 154-160.	3.9	9

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55	Acoustic Detection Module Design of a Quartz-Enhanced Photoacoustic Sensor. <i>Sensors</i> , 2019, 19, 1093.	3.8	10
56	Mechanisms and efficient elimination approaches of self-absorption in LIBS. <i>Plasma Science and Technology</i> , 2019, 21, 034016.	1.5	23
57	Ppb-level nitric oxide photoacoustic sensor based on a mid-IR quantum cascade laser operating at 52°C. <i>Sensors and Actuators B: Chemical</i> , 2019, 290, 426-433.	7.8	30
58	Dosimetric Performance and Planning/Delivery Efficiency of a Dual-Layer Stacked and Staggered MLC on Treating Multiple Small Targets: A Planning Study Based on Single-Isocenter Multi-Target Stereotactic Radiosurgery (SRS) to Brain Metastases. <i>Frontiers in Oncology</i> , 2019, 9, 7.	2.8	28
59	Near-Infrared Quartz-Enhanced Photoacoustic Sensor for H ₂ S Detection in Biogas. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5347.	2.5	7
60	Quartz-Enhanced Photothermal-Acoustic Spectroscopy for Trace Gas Analysis. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4021.	2.5	12
61	Influence of Tuning Fork Resonance Properties on Quartz-Enhanced Photoacoustic Spectroscopy Performance. <i>Sensors</i> , 2019, 19, 3825.	3.8	3
62	Robust optimization for intensity-modulated proton therapy with soft spot sensitivity regularization. <i>Medical Physics</i> , 2019, 46, 1408-1425.	3.0	13
63	Ppb-level photoacoustic sensor system for saturation-free CO detection of SF ₆ decomposition by use of a 10 W fiber-amplified near-infrared diode laser. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 567-573.	7.8	63
64	A novel methodology to directly pre-determine the relative wavelength response of DFB laser in wavelength modulation spectroscopy. <i>Optics Express</i> , 2019, 27, 1249.	3.4	11
65	Quartz-enhanced photoacoustic sensor for ethylene detection implementing optimized custom tuning fork-based spectrophone. <i>Optics Express</i> , 2019, 27, 4271.	3.4	46
66	Highly sensitive photoacoustic multicomponent gas sensor for SF ₆ decomposition online monitoring. <i>Optics Express</i> , 2019, 27, A224.	3.4	49
67	Piezo-enhanced acoustic detection module for mid-infrared trace gas sensing using a grooved quartz tuning fork. <i>Optics Express</i> , 2019, 27, 35267.	3.4	12
68	Calculation model of dense spot pattern multi-pass cells based on a spherical mirror aberration. <i>Optics Letters</i> , 2019, 44, 1108.	3.3	42
69	Novel direct conversion imaging detector without selenium or semiconductor conversion layer. , 2019, , .		1
70	Laser-induced plasma characterization through self-absorption quantification. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 213, 143-148.	2.3	6
71	Accurate quantitative CF-LIBS analysis of both major and minor elements in alloys via iterative correction of plasma temperature and spectral intensity. <i>Plasma Science and Technology</i> , 2018, 20, 035502.	1.5	4
72	Integrated beam orientation and scanning spot optimization in intensity-modulated proton therapy for brain and unilateral head and neck tumors. <i>Medical Physics</i> , 2018, 45, 1338-1350.	3.0	45

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73	Application of acoustic micro-resonators in quartz-enhanced photoacoustic spectroscopy for trace gas analysis. <i>Chemical Physics Letters</i> , 2018, 691, 462-472.	2.6	30
74	Recent advances in quartz enhanced photoacoustic sensing. <i>Applied Physics Reviews</i> , 2018, 5, .	11.3	174
75	Technical Note: Solving the “Chinese postman problem” for effective contour deformation. <i>Medical Physics</i> , 2018, 45, 767-772.	3.0	0
76	Automated Knowledge-Based Intensity-Modulated Proton Planning: An International Multicenter Benchmarking Study. <i>Cancers</i> , 2018, 10, 420.	3.7	21
77	Highly sensitive and selective CO sensor using a 233 μm diode laser and wavelength modulation spectroscopy. <i>Optics Express</i> , 2018, 26, 24318.	3.4	52
78	Efficient double-scattering proton therapy with a patient-specific bolus. <i>Physica Medica</i> , 2018, 50, 1-6.	0.7	1
79	Automated rapid blood culture sensor system based on diode laser wavelength-modulation spectroscopy for microbial growth analysis. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 656-663.	7.8	10
80	Current State of Image Guidance in Radiation Oncology: Implications for PTV Margin Expansion and Adaptive Therapy. <i>Seminars in Radiation Oncology</i> , 2018, 28, 238-247.	2.2	21
81	Ppbv-Level Ethane Detection Using Quartz-Enhanced Photoacoustic Spectroscopy with a Continuous-Wave, Room Temperature Interband Cascade Laser. <i>Sensors</i> , 2018, 18, 723.	3.8	16
82	Quantitative CF-LIBS analysis of alloys via comprehensive calibration of plasma temperature and spectral intensity. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2018, 48, 014201.	0.4	1
83	Recent advances in quartz-enhanced photoacoustic sensing. , 2018, , .		2
84	Photoacoustic H ₂ S Gas Sensor for SF ₆ Decomposition Analysis in an Electric Power System. , 2018, , .		0
85	Fast and calibration-free trace-gas monitoring based on beat frequency quartz-enhanced photoacoustic spectroscopy. , 2018, , .		0
86	Cherenkov imaging for Total Skin Electron Therapy (TSET). , 2018, , .		5
87	Quartz-enhanced photoacoustic spectrophones exploiting custom tuning forks: a review. <i>Advances in Physics: X</i> , 2017, 2, 169-187.	4.1	44
88	Development and field deployment of a mid-infrared methane sensor without pressure control using interband cascade laser absorption spectroscopy. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 365-372.	7.8	61
89	A compact mid-infrared dual-gas CH ₄ /C ₂ H ₆ sensor using a single interband cascade laser and custom electronics. <i>Proceedings of SPIE</i> , 2017, , .	0.8	3
90	Double antinode excited quartz-enhanced photoacoustic spectrophone. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	33

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91	Single-tube on beam quartz-enhanced photoacoustic spectrophones exploiting a custom quartz tuning fork operating in the overtone mode. Proceedings of SPIE, 2017, , .	0.8	0
92	Investigation on spatial distribution of optically thin condition in laser-induced aluminum plasma and its relationship with temporal evolution of plasma characteristics. Journal of Analytical Atomic Spectrometry, 2017, 32, 1519-1526.	3.0	16
93	Beat frequency quartz-enhanced photoacoustic spectroscopy for fast and calibration-free continuous trace-gas monitoring. Nature Communications, 2017, 8, 15331.	12.8	213
94	Simultaneous dual-gas QEPAS detection based on a fundamental and overtone combined vibration of quartz tuning fork. Applied Physics Letters, 2017, 110, .	3.3	64
95	Sub-ppb nitrogen dioxide detection with a large linear dynamic range by use of a differential photoacoustic cell and a 3.5 W blue multimode diode laser. Sensors and Actuators B: Chemical, 2017, 247, 329-335.	7.8	90
96	High-efficiency frequency upconversion of 1.5 μ m laser based on a doubly resonant external ring cavity with a low finesse for signal field. Applied Physics B: Lasers and Optics, 2017, 123, 1.	2.2	3
97	Ppb-level H ₂ S detection for SF ₆ decomposition based on a fiber-amplified telecommunication diode laser and a background-gas-induced high-Q photoacoustic cell. Applied Physics Letters, 2017, 111, .	3.3	48
98	Consensus Guidelines for Implementing Pencil-Beam Scanning Proton Therapy for Thoracic Malignancies on Behalf of the PTCOG Thoracic and Lymphoma Subcommittee. International Journal of Radiation Oncology Biology Physics, 2017, 99, 41-50.	0.8	162
99	Recent advances in quartz-enhanced photoacoustic sensors employing custom tuning fork operating at the first overtone flexural mode. , 2017, , .		0
100	Stability Enhanced Online Powdery Cement Raw Materials Quality Monitoring Using Laser-Induced Breakdown Spectroscopy. IEEE Photonics Journal, 2017, 9, 1-10.	2.0	6
101	Compact photoacoustic module for methane detection incorporating interband cascade light emitting device. Optics Express, 2017, 25, 16761.	3.4	63
102	Development and performance evaluation of self-absorption-free laser-induced breakdown spectroscopy for directly capturing optically thin spectral line and realizing accurate chemical composition measurements. Optics Express, 2017, 25, 23024.	3.4	46
103	Highly sensitive SO ₂ photoacoustic sensor for SF ₆ decomposition detection using a compact mW-level diode-pumped solid-state laser emitting at 303 nm. Optics Express, 2017, 25, 32581.	3.4	49
104	Homogeneous-material-based calibration method for correcting laser-induced breakdown spectroscopy measurement-error bias in the case of dust pollution. Applied Optics, 2017, 56, 9644.	1.8	1
105	Comparison of multi-institutional Varian ProBeam pencil beam scanning proton beam commissioning data. Journal of Applied Clinical Medical Physics, 2017, 18, 96-107.	1.9	42
106	Nitrogen Dioxide Detection by use of Photoacoustic Spectroscopy with a High Power Violet-Blue Diode Laser. , 2017, , .		0
107	Investigation and performance evaluation of optically thin laser-induced breakdown spectroscopy without self-absorption. Scientia Sinica: Physica, Mechanica Et Astronomica, 2017, 47, 124201.	0.4	1
108	Impact of Humidity on Quartz-Enhanced Photoacoustic Spectroscopy Based CO Detection Using a Near-IR Telecommunication Diode Laser. Sensors, 2016, 16, 162.	3.8	49

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109	Intensity-Stabilized Fast-Scanned Direct Absorption Spectroscopy Instrumentation Based on a Distributed Feedback Laser with Detection Sensitivity down to $4 \text{ \AA} - 10^{-6}$. <i>Sensors</i> , 2016, 16, 1544.	3.8	12
110	Learning anatomy changes from patient populations to create artificial CT images for voxel-level validation of deformable image registration. <i>Journal of Applied Clinical Medical Physics</i> , 2016, 17, 246-258.	1.9	14
111	Perturbation of water-equivalent thickness as a surrogate for respiratory motion in proton therapy. <i>Journal of Applied Clinical Medical Physics</i> , 2016, 17, 368-378.	1.9	19
112	Overtone resonance enhanced single-tube on-beam quartz enhanced photoacoustic spectrophone. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	46
113	Compact CH ₄ sensor system based on a continuous-wave, low power consumption, room temperature interband cascade laser. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	101
114	Compact TDLAS based optical sensor for ppb-level ethane detection by use of a 3.34 μm room-temperature CW interband cascade laser. <i>Sensors and Actuators B: Chemical</i> , 2016, 232, 188-194.	7.8	108
115	Innovative quartz enhanced photoacoustic sensors for trace gas detection. , 2016, , .		2
116	Infrared Dual-Gas CH ₄ /C ₂ H ₆ Sensor Using Two Continuous-Wave Interband Cascade Lasers. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 2351-2354.	2.5	34
117	Scattered light modulation cancellation method for sub-ppb-level NO ₂ detection in a LD-excited QEPAS system. <i>Optics Express</i> , 2016, 24, A752.	3.4	28
118	Analysis of overtone flexural modes operation in quartz-enhanced photoacoustic spectroscopy. <i>Optics Express</i> , 2016, 24, A682.	3.4	57
119	Review of methodological and experimental LIBS techniques for coal analysis and their application in power plants in China. <i>Frontiers of Physics</i> , 2016, 11, 1.	5.0	19
120	Mid-infrared dual-gas sensor for simultaneous detection of methane and ethane using a single continuous-wave interband cascade laser. <i>Optics Express</i> , 2016, 24, 16973.	3.4	74
121	Ppb-level mid-infrared ethane detection based on three measurement schemes using a 3.34- μm continuous-wave interband cascade laser. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	2.2	20
122	Impact of fractionation and number of fields on dose homogeneity for intra-fractionally moving lung tumors using scanned carbon ion treatment. <i>Radiotherapy and Oncology</i> , 2016, 118, 498-503.	0.6	9
123	Compact TDLAS based sensor design using interband cascade lasers for mid-IR trace gas sensing. <i>Optics Express</i> , 2016, 24, A528.	3.4	150
124	Compact, low power consumption methane sensor based on a novel miniature multipass gas cell and a CW, room temperature interband cascade laser emitting at 3.3 μm . <i>Proceedings of SPIE</i> , 2016, , .	0.8	2
125	Single-tube on-beam quartz-enhanced photoacoustic spectroscopy. <i>Optics Letters</i> , 2016, 41, 978.	3.3	88
126	Calibration-free wavelength-modulation spectroscopy based on a swiftly determined wavelength-modulation frequency response function of a DFB laser. <i>Optics Express</i> , 2016, 24, 1723.	3.4	24

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127	Recent advances of mid-“infrared compact, field deployable sensors and their real world applications in the petrochemical industry, atmospheric chemistry and security. , 2016, , .		0
128	Near-infrared Quartz Enhanced Photoacoustic Sensor for Sub-ppm Level H ₂ S Detection based on a Fiber-amplifier Source. , 2016, , .		0
129	Monitoring of atmospheric Methane and Ethane using two Continuous-Wave Interband Cascade Lasers. , 2016, , .		0
130	Micro-resonator Parameter Optimization of a QEPAS Spectrophone using a Custom Quartz Tuning Fork with large Prong Spacing. , 2016, , .		0
131	Quartz-enhanced conductance spectroscopy for nanomechanical analysis of polymer wire. Applied Physics Letters, 2015, 107, 221903.	3.3	8
132	Multi-Quartz Enhanced Photoacoustic Spectroscopy with Different Acoustic Microresonator Configurations. Journal of Spectroscopy, 2015, 2015, 1-6.	1.3	11
133	Optical Detection Technique Using Quartz-Enhanced Photoacoustic Spectrum. International Journal of Thermophysics, 2015, 36, 1297-1304.	2.1	5
134	Evaluation and Application of U.S. Medical Proton Facilities for Single Event Effects Test. IEEE Transactions on Nuclear Science, 2015, 62, 2490-2497.	2.0	6
135	Development of a Laboratory Cement Quality Analysis Apparatus Based on Laser-Induced Breakdown Spectroscopy. Plasma Science and Technology, 2015, 17, 897-903.	1.5	13
136	Preliminary Radiation Testing of a State-of-the-Art Commercial 14nm CMOS Processor / System-on-a-Chip. , 2015, , .		6
137	Digital reconstruction of high-quality daily 4D cone-beam CT images using prior knowledge of anatomy and respiratory motion. Computerized Medical Imaging and Graphics, 2015, 40, 30-38.	5.8	7
138	Improved human observer performance in digital reconstructed radiograph verification in head and neck cancer radiotherapy. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1667-1673.	2.8	4
139	Enhanced near-infrared QEPAS sensor for sub-ppm level H ₂ S detection by means of a fiber amplified 1582 nm DFB laser. Sensors and Actuators B: Chemical, 2015, 221, 666-672.	7.8	91
140	Compact sound-speed sensor for quartz enhanced photoacoustic spectroscopy based applications. Review of Scientific Instruments, 2015, 86, 044903.	1.3	3
141	Impact of respiratory motion on worst-case scenario optimized intensity modulated proton therapy for lung cancers. Practical Radiation Oncology, 2015, 5, e77-e86.	2.1	75
142	MRI-Based Computed Tomography Metal Artifact Correction Method for Improving Proton Range Calculation Accuracy. International Journal of Radiation Oncology Biology Physics, 2015, 91, 849-856.	0.8	10
143	Quartz enhanced photoacoustic H ₂ S gas sensor based on a fiber-amplifier source and a custom tuning fork with large prong spacing. Applied Physics Letters, 2015, 107, .	3.3	128
144	Ppb-level formaldehyde detection using a CW room-temperature interband cascade laser and a miniature dense pattern multipass gas cell. Optics Express, 2015, 23, 19821.	3.4	58

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145	Mid-infrared detection of atmospheric CH ₄ , N ₂ O and H ₂ O based on a single continuous wave quantum cascade laser. , 2015, , .		0
146	Development of a coal quality analyzer for application to power plants based on laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 113, 167-173.	2.9	46
147	Parameters Optimization of Laser-Induced Breakdown Spectroscopy Experimental Setup for the Case with Beam Expander. Plasma Science and Technology, 2015, 17, 914-918.	1.5	13
148	Ppb-level QEPAS NO ₂ sensor by use of electrical modulation cancellation method with a high power blue LED. Sensors and Actuators B: Chemical, 2015, 208, 173-179.	7.8	70
149	Design and Optimization of QTF Chopper for Quartz-Enhanced Photoacoustic Spectroscopy. International Journal of Thermophysics, 2015, 36, 1289-1296.	2.1	1
150	Position effects of acoustic micro-resonator in quartz enhanced photoacoustic spectroscopy. Sensors and Actuators B: Chemical, 2015, 206, 364-370.	7.8	36
151	Compact TDLAS Based Sensors Using Interband Cascade Lasers for CH ₂ O and CH ₄ Trace Gas Measurements. , 2015, , .		1
152	Fiber-Amplifier-Enhanced QEPAS Sensor for Simultaneous Trace Gas Detection of NH ₃ and H ₂ S. Sensors, 2015, 15, 26743-26755.	3.8	38
153	Double acoustic microresonator quartz-enhanced photoacoustic spectroscopy. Optics Letters, 2014, 39, 2479.	3.3	58
154	Forecasting longitudinal changes in oropharyngeal tumor morphology throughout the course of head and neck radiation therapy. Medical Physics, 2014, 41, 081708.	3.0	2
155	A serial 4DCT study to quantify range variations in charged particle radiotherapy of thoracic cancers. Journal of Radiation Research, 2014, 55, 309-319.	1.6	17
156	Dosimetric benefits of robust treatment planning for intensity modulated proton therapy for base-of-skull cancers. Practical Radiation Oncology, 2014, 4, 384-391.	2.1	56
157	Auto-segmentation of low-risk clinical target volume for head and neck radiation therapy. Practical Radiation Oncology, 2014, 4, e31-e37.	2.1	28
158	Predicting oropharyngeal tumor volume throughout the course of radiation therapy from pretreatment computed tomography data using general linear models. Medical Physics, 2014, 41, 051705.	3.0	5
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