

Lei Dong

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.

285
papers

14,113
citations

64
h-index

108
g-index

310
ext. papers

16,495
ext. citations

3.2
avg, IF

6.23
L-index

#	Paper	IF	Citations
285	Calibration-free mid-infrared exhaled breath sensor based on BF-QEPAS for real-time ammonia measurements at ppb level. <i>Sensors and Actuators B: Chemical</i> , 2022 , 358, 131510	8.5	8
284	Advanced Topics in Particle Radiotherapy. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2022 , 1-1	4.2	
283	Compact QEPAS humidity sensor in SF buffer gas for high-voltage gas power systems.. <i>Photoacoustics</i> , 2022 , 25, 100319	9	9
282	Ppb-level gas detection using on-beam quartz-enhanced photoacoustic spectroscopy based on a 28 kHz tuning fork.. <i>Photoacoustics</i> , 2022 , 25, 100321	9	13
281	Compact quartz-enhanced photoacoustic sensor for ppb-level ambient NO detection by use of a high-power laser diode and a grooved tuning fork.. <i>Photoacoustics</i> , 2022 , 25, 100325	9	7
280	Quartz-enhanced photoacoustic spectroscopy for multi-gas detection: A review.. <i>Analytica Chimica Acta</i> , 2022 , 1202, 338894	6.6	8
279	High-concentration methane and ethane QEPAS detection employing partial least squares regression to filter out energy relaxation dependence on gas matrix composition.. <i>Photoacoustics</i> , 2022 , 26, 100349	9	4
278	Elliptical-tube off-beam quartz-enhanced photoacoustic spectroscopy. <i>Applied Physics Letters</i> , 2022 , 120, 171101	3.4	5
277	Quartz-enhanced photoacoustic NH sensor exploiting a large-prong-spacing quartz tuning fork and an optical fiber amplifier for biomedical applications.. <i>Photoacoustics</i> , 2022 , 26, 100363	9	4
276	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, 041409	17.3	20
275	Quartz-enhanced photoacoustic spectroscopy exploiting low-frequency tuning forks as a tool to measure the vibrational relaxation rate in gas species. <i>Photoacoustics</i> , 2021 , 21, 100227	9	21
274	Multiple-sound-source-excitation quartz-enhanced photoacoustic spectroscopy based on a single-line spot pattern multi-pass cell. <i>Applied Physics Letters</i> , 2021 , 118, 161101	3.4	6
273	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, 12357-12364	3.3	7
272	Laser induced thermoelastic contributions from windows to signal background in a photoacoustic cell. <i>Photoacoustics</i> , 2021 , 22, 100257	9	7
271	Evaluation of Two-voltage and Three-voltage Linear Methods for Deriving Ion Recombination Correction Factors in Proton FLASH Irradiation. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021 , 1-1	4.2	2
270	Development of Ultra-High Dose Rate (FLASH) Particle Therapy. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021 , 1-1	4.2	6
269	Numerical simulation of laser-induced plasma in background gas considering multiple interaction processes. <i>Plasma Science and Technology</i> , 2021 , 23, 035001	1.5	1

268	HS quartz-enhanced photoacoustic spectroscopy sensor employing a liquid-nitrogen-cooled THz quantum cascade laser operating in pulsed mode. <i>Photoacoustics</i> , 2021 , 21, 100219	9	14
267	Quartz-enhanced photoacoustic spectroscopy for hydrocarbon trace gas detection and petroleum exploration. <i>Fuel</i> , 2020 , 277, 118118	7.1	20
266	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	3.3	2
265	Generalized optical design of two-spherical-mirror multi-pass cells with dense multi-circle spot patterns. <i>Applied Physics Letters</i> , 2020 , 116, 091103	3.4	11
264	Compact and Highly Sensitive NO Photoacoustic Sensor for Environmental Monitoring. <i>Molecules</i> , 2020 , 25,	4.8	14
263	Quartz Enhanced Photoacoustic Detection Based on an Elliptical Laser Beam. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1197	2.6	1
262	ppb-Level SO 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	9.2	41
261	Narrowband Perfect Absorber Based on Dielectric-Metal Metasurface for Surface-Enhanced Infrared Sensing. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2295	2.6	9
260	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	3.1	5
259	Light-induced thermo-elastic effect in quartz tuning forks exploited as a photodetector in gas absorption spectroscopy. <i>Optics Express</i> , 2020 , 28, 19074-19084	3.3	22
258	Quartz-enhanced photoacoustic spectroscopy exploiting a fast and wideband electro-mechanical light modulator. <i>Optics Express</i> , 2020 , 28, 27966-27973	3.3	3
257	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	9	29
256	New Developments in Quartz-Enhanced Photoacoustic Sensing Real-World Applications 2020 ,		1
255	Ultra-repeatability measurement of the coal calorific value by XRF assisted LIBS. <i>Journal of Analytical Atomic Spectrometry</i> , 2020 , 35, 2928-2934	3.7	4
254	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	7.8	13
253	Mid-Infrared Quartz-Enhanced Photoacoustic Sensor for ppb-Level CO Detection in a SF Gas Matrix Exploiting a T-Grooved Quartz Tuning Fork. <i>Analytical Chemistry</i> , 2020 , 92, 13922-13929	7.8	15
252	Quartz Enhanced Conductance Spectroscopy for Polymer Nano-Mechanical Thermal Analysis. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4954	2.6	0
251	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	7.8	26

250	Species distribution in laser-induced plasma on the surface of binary miscible alloy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020 , 173, 105987	3.1	0
249	Increase in Superficial Dose in Whole-Breast Irradiation With Halcyon Straight-Through Linac Compared With Traditional C-arm Linac With Flattening Filter: In vivo Dosimetry and Planning Study. <i>Advances in Radiation Oncology</i> , 2020 , 5, 120-126	3.3	11
248	Dual-Gas Quartz-Enhanced Photoacoustic Sensor for Simultaneous Detection of Methane/Nitrous Oxide and Water Vapor. <i>Analytical Chemistry</i> , 2019 , 91, 12866-12873	7.8	34
247	Acoustic Coupling between Resonator Tubes in Quartz-Enhanced Photoacoustic Spectrophones Employing a Large Prong Spacing Tuning Fork. <i>Sensors</i> , 2019 , 19,	3.8	17
246	Report of the AAPM TG-256 on the relative biological effectiveness of proton beams in radiation therapy. <i>Medical Physics</i> , 2019 , 46, e53-e78	4.4	98
245	Robust beam orientation optimization for intensity-modulated proton therapy. <i>Medical Physics</i> , 2019 , 46, 3356-3370	4.4	13
244	Characterization of the Megavoltage Cone-Beam Computed Tomography (MV-CBCT) System on Halcyon for IGRT: Image Quality Benchmark, Clinical Performance, and Organ Doses. <i>Frontiers in Oncology</i> , 2019 , 9, 496	5.3	8
243	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	3.8	13
242	Cavity-enhanced photoacoustic sensor based on a whispering-gallery-mode diode laser. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 1905-1911	4	10
241	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	3.8	11
240	Ppb-Level Quartz-Enhanced Photoacoustic Detection of Carbon Monoxide Exploiting a Surface Grooved Tuning Fork. <i>Analytical Chemistry</i> , 2019 , 91, 5834-5840	7.8	48
239	Simultaneous multi-gas detection between 3 and 4 μ m based on a 2.5-m multipass cell and a tunable Fabry-Pérot filter detector. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 216, 154-160	4.4	7
238	Acoustic Detection Module Design of a Quartz-Enhanced Photoacoustic Sensor. <i>Sensors</i> , 2019 , 19,	3.8	5
237	Mechanisms and efficient elimination approaches of self-absorption in LIBS. <i>Plasma Science and Technology</i> , 2019 , 21, 034016	1.5	11
236	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	8.5	19
235	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	5.3	16
234	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	8.5	78
233	Species distribution in laser-induced plasma on the surface of binary immiscible alloy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019 , 158, 105644	3.1	4

232	A Super-Learner Model for Tumor Motion Prediction and Management in Radiation Therapy: Development and Feasibility Evaluation. <i>Scientific Reports</i> , 2019 , 9, 14868	4.9	11
231	A novel methodology to directly pre-determine the relative wavelength response of DFB laser in wavelength modulation spectroscopy. <i>Optics Express</i> , 2019 , 27, 1249-1261	3.3	4
230	Quartz-enhanced photoacoustic sensor for ethylene detection implementing optimized custom tuning fork-based spectrophone. <i>Optics Express</i> , 2019 , 27, 4271-4280	3.3	29
229	Highly sensitive photoacoustic multicomponent gas sensor for SF decomposition online monitoring. <i>Optics Express</i> , 2019 , 27, A224-A234	3.3	23
228	Piezo-enhanced acoustic detection module for mid-infrared trace gas sensing using a grooved quartz tuning fork. <i>Optics Express</i> , 2019 , 27, 35267-35278	3.3	11
227	Calculation model of dense spot pattern multi-pass cells based on a spherical mirror aberration. <i>Optics Letters</i> , 2019 , 44, 1108-1111	3	25
226	Novel direct conversion imaging detector without selenium or semiconductor conversion layer 2019 ,		1
225	Near-Infrared Quartz-Enhanced Photoacoustic Sensor for H ₂ S Detection in Biogas. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5347	2.6	0
224	Quartz-Enhanced Photothermal-Acoustic Spectroscopy for Trace Gas Analysis. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4021	2.6	5
223	Influence of Tuning Fork Resonance Properties on Quartz-Enhanced Photoacoustic Spectroscopy Performance. <i>Sensors</i> , 2019 , 19,	3.8	2
222	Robust optimization for intensity-modulated proton therapy with soft spot sensitivity regularization. <i>Medical Physics</i> , 2019 , 46, 1408-1425	4.4	7
221	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	8.5	27
220	Laser-induced plasma characterization through self-absorption quantification. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 213, 143-148	2.1	5
219	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, 0355025	1.5	2
218	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	4.4	29
217	Application of acoustic micro-resonators in quartz-enhanced photoacoustic spectroscopy for trace gas analysis. <i>Chemical Physics Letters</i> , 2018 , 691, 462-472	2.5	22
216	Recent advances in quartz enhanced photoacoustic sensing. <i>Applied Physics Reviews</i> , 2018 , 5, 011106	17.3	103
215	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	5.5	13

214	Ppbv-Level Ethane Detection Using Quartz-Enhanced Photoacoustic Spectroscopy with a Continuous-Wave, Room Temperature Interband Cascade Laser. <i>Sensors</i> , 2018 , 18,	3.8	10
213	Cherenkov imaging for Total Skin Electron Therapy (TSET) 2018 ,		1
212	Technical Note: Solving the "Chinese postman problem" for effective contour deformation. <i>Medical Physics</i> , 2018 , 45, 767-772	4.4	
211	Automated Knowledge-Based Intensity-Modulated Proton Planning: An International Multicenter Benchmarking Study. <i>Cancers</i> , 2018 , 10,	6.6	13
210	Highly sensitive and selective CO sensor using a 2.33 μm diode laser and wavelength modulation spectroscopy. <i>Optics Express</i> , 2018 , 26, 24318-24328	3.3	33
209	Efficient double-scattering proton therapy with a patient-specific bolus. <i>Physica Medica</i> , 2018 , 50, 1-6	2.7	1
208	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	8.5	5
207	Quartz-enhanced photoacoustic spectrophones exploiting custom tuning forks: a review. <i>Advances in Physics: X</i> , 2017 , 2, 169-187	5.1	29
206	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	8.5	45
205	A compact mid-infrared dual-gas CH ₄ /C ₂ H ₆ sensor using a single interband cascade laser and custom electronics 2017 ,		1
204	Double antinode excited quartz-enhanced photoacoustic spectrophone. <i>Applied Physics Letters</i> , 2017 , 110, 021110	3.4	22
203	Investigation on spatial distribution of optically thin condition in laser-induced aluminum plasma and its relationship with temporal evolution of plasma characteristics. <i>Journal of Analytical Atomic Spectrometry</i> , 2017 , 32, 1519-1526	3.7	12
202	Beat frequency quartz-enhanced photoacoustic spectroscopy for fast and calibration-free continuous trace-gas monitoring. <i>Nature Communications</i> , 2017 , 8, 15331	17.4	126
201	Simultaneous dual-gas QEPAS detection based on a fundamental and overtone combined vibration of quartz tuning fork. <i>Applied Physics Letters</i> , 2017 , 110, 121104	3.4	44
200	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. <i>Sensors and Actuators B: Chemical</i> , 2017 , 247, 329-335	8.5	65
199	High-efficiency frequency upconversion of 1.5 μm laser based on a doubly resonant external ring cavity with a low finesse for signal field. <i>Applied Physics B: Lasers and Optics</i> , 2017 , 123, 1	1.9	2
198	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. <i>Applied Physics Letters</i> , 2017 , 111, 031109	3.4	23
197	Consensus Guidelines for Implementing Pencil-Beam Scanning Proton Therapy for Thoracic Malignancies on Behalf of the PTCOG Thoracic and Lymphoma Subcommittee. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017 , 99, 41-50	4	111

196	Stability Enhanced Online Powdery Cement Raw Materials Quality Monitoring Using Laser-Induced Breakdown Spectroscopy. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-10	1.8	1
195	Compact photoacoustic module for methane detection incorporating interband cascade light emitting device. <i>Optics Express</i> , 2017 , 25, 16761-16770	3.3	49
194	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. <i>Optics Express</i> , 2017 , 25, 23024-23034	3.3	31
193	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. <i>Optics Express</i> , 2017 , 25, 32581	3.3	29
192	Homogeneous-material-based calibration method for correcting laser-induced breakdown spectroscopy measurement-error bias in the case of dust pollution. <i>Applied Optics</i> , 2017 , 56, 9644-9648	1.7	
191	Comparison of multi-institutional Varian ProBeam pencil beam scanning proton beam commissioning data. <i>Journal of Applied Clinical Medical Physics</i> , 2017 , 18, 96-107	2.3	31
190	Scattered light modulation cancellation method for sub-ppb-level NO ₂ detection in a LD-excited QEPAS system. <i>Optics Express</i> , 2016 , 24, A752-61	3.3	25
189	Analysis of overtone flexural modes operation in quartz-enhanced photoacoustic spectroscopy. <i>Optics Express</i> , 2016 , 24, A682-92	3.3	38
188	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	3.7	14
187	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, 16973-85	3.3	49
186	Ppb-level mid-infrared ethane detection based on three measurement schemes using a 3.34- μ m continuous-wave interband cascade laser. <i>Applied Physics B: Lasers and Optics</i> , 2016 , 122, 1	1.9	14
185	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	5.3	7
184	Compact TDLAS based sensor design using interband cascade lasers for mid-IR trace gas sensing. <i>Optics Express</i> , 2016 , 24, A528-35	3.3	102
183	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 μ m 2016 ,		1
182	Single-tube on-beam quartz-enhanced photoacoustic spectroscopy. <i>Optics Letters</i> , 2016 , 41, 978-81	3	65
181	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, 1723-33	3.3	19
180	Impact of Humidity on Quartz-Enhanced Photoacoustic Spectroscopy Based CO Detection Using a Near-IR Telecommunication Diode Laser. <i>Sensors</i> , 2016 , 16, 162	3.8	40
179	Intensity-Stabilized Fast-Scanned Direct Absorption Spectroscopy Instrumentation Based on a Distributed Feedback Laser with Detection Sensitivity down to 4 $\times 10^{-10}$. <i>Sensors</i> , 2016 , 16,	3.8	11

178	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	2.3	11
177	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	2.3	13
176	Overtone resonance enhanced single-tube on-beam quartz enhanced photoacoustic spectrophone. <i>Applied Physics Letters</i> , 2016 , 109, 111103	3.4	30
175	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, 011106	3.4	76
174	Compact TDLAS based optical sensor for ppb-level ethane detection by use of a 3.34 μ m room-temperature CW interband cascade laser. <i>Sensors and Actuators B: Chemical</i> , 2016 , 232, 188-194	8.5	77
173	Innovative quartz enhanced photoacoustic sensors for trace gas detection 2016 , . <i>IEEE Photonics Technology Letters</i> , 2016 , 28, 2351-2354		1
172		2.2	25
171	Improved human observer performance in digital reconstructed radiograph verification in head and neck cancer radiotherapy. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015 , 10, 1667-73	3.9	4
170	Enhanced near-infrared QEPAS sensor for sub-ppm level H ₂ S detection by means of a fiber amplified 1582 nm DFB laser. <i>Sensors and Actuators B: Chemical</i> , 2015 , 221, 666-672	8.5	61
169	Compact sound-speed sensor for quartz enhanced photoacoustic spectroscopy based applications. <i>Review of Scientific Instruments</i> , 2015 , 86, 044903	1.7	1
168	Impact of respiratory motion on worst-case scenario optimized intensity modulated proton therapy for lung cancers. <i>Practical Radiation Oncology</i> , 2015 , 5, e77-86	2.8	54
167	MRI-based computed tomography metal artifact correction method for improving proton range calculation accuracy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015 , 91, 849-56	4	8
166	Quartz enhanced photoacoustic H ₂ S gas sensor based on a fiber-amplifier source and a custom tuning fork with large prong spacing. <i>Applied Physics Letters</i> , 2015 , 107, 111104	3.4	79
165	Ppb-level formaldehyde detection using a CW room-temperature interband cascade laser and a miniature dense pattern multipass gas cell. <i>Optics Express</i> , 2015 , 23, 19821-30	3.3	42
164	Development of a coal quality analyzer for application to power plants based on laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015 , 113, 167-173	3.1	38
163	Parameters Optimization of Laser-Induced Breakdown Spectroscopy Experimental Setup for the Case with Beam Expander. <i>Plasma Science and Technology</i> , 2015 , 17, 914-918	1.5	11
162	Ppb-level QEPAS NO ₂ sensor by use of electrical modulation cancellation method with a high power blue LED. <i>Sensors and Actuators B: Chemical</i> , 2015 , 208, 173-179	8.5	56
161	Design and Optimization of QTF Chopper for Quartz-Enhanced Photoacoustic Spectroscopy. <i>International Journal of Thermophysics</i> , 2015 , 36, 1289-1296	2.1	1

160	Position effects of acoustic micro-resonator in quartz enhanced photoacoustic spectroscopy. <i>Sensors and Actuators B: Chemical</i> , 2015 , 206, 364-370	8.5	32
159	Quartz-enhanced conductance spectroscopy for nanomechanical analysis of polymer wire. <i>Applied Physics Letters</i> , 2015 , 107, 221903	3.4	3
158	Multi-Quartz Enhanced Photoacoustic Spectroscopy with Different Acoustic Microresonator Configurations. <i>Journal of Spectroscopy</i> , 2015 , 2015, 1-6	1.5	10
157	Optical Detection Technique Using Quartz-Enhanced Photoacoustic Spectrum. <i>International Journal of Thermophysics</i> , 2015 , 36, 1297-1304	2.1	2
156	Evaluation and Application of U.S. Medical Proton Facilities for Single Event Effects Test. <i>IEEE Transactions on Nuclear Science</i> , 2015 , 62, 2490-2497	1.7	3
155	Development of a Laboratory Cement Quality Analysis Apparatus Based on Laser-Induced Breakdown Spectroscopy. <i>Plasma Science and Technology</i> , 2015 , 17, 897-903	1.5	9
154	Digital reconstruction of high-quality daily 4D cone-beam CT images using prior knowledge of anatomy and respiratory motion. <i>Computerized Medical Imaging and Graphics</i> , 2015 , 40, 30-8	7.6	7
153	Fiber-amplifier-enhanced QEPAS sensor for simultaneous trace gas detection of NH ₃ and H ₂ . <i>Sensors</i> , 2015 , 15, 26743-55	3.8	28
152	Predicting oropharyngeal tumor volume throughout the course of radiation therapy from pretreatment computed tomography data using general linear models. <i>Medical Physics</i> , 2014 , 41, 051705	4.4	5
151	Advantages of simulating thoracic cancer patients in an upright position. <i>Practical Radiation Oncology</i> , 2014 , 4, e53-8	2.8	19
150	Statistical modeling approach to quantitative analysis of interobserver variability in breast contouring. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014 , 89, 214-21	4	17
149	Investigation and cancellation of residual amplitude modulation in fiber electro-optic modulator based frequency modulation gas sensing technique. <i>Sensors and Actuators B: Chemical</i> , 2014 , 196, 23-30	8.5	10
148	A six-year review of more than 13,000 patient-specific IMRT QA results from 13 different treatment sites. <i>Journal of Applied Clinical Medical Physics</i> , 2014 , 15, 4935	2.3	21
147	Double acoustic microresonator quartz-enhanced photoacoustic spectroscopy. <i>Optics Letters</i> , 2014 , 39, 2479-82	3	53
146	Forecasting longitudinal changes in oropharyngeal tumor morphology throughout the course of head and neck radiation therapy. <i>Medical Physics</i> , 2014 , 41, 081708	4.4	2
145	A serial 4DCT study to quantify range variations in charged particle radiotherapy of thoracic cancers. <i>Journal of Radiation Research</i> , 2014 , 55, 309-19	2.4	16
144	Dosimetric benefits of robust treatment planning for intensity modulated proton therapy for base-of-skull cancers. <i>Practical Radiation Oncology</i> , 2014 , 4, 384-91	2.8	46
143	Auto-segmentation of low-risk clinical target volume for head and neck radiation therapy. <i>Practical Radiation Oncology</i> , 2014 , 4, e31-7	2.8	20

142	Image guided radiation therapy (IGRT) technologies for radiation therapy localization and delivery. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 87, 33-45	4	82
141	Patterns of disease recurrence following treatment of oropharyngeal cancer with intensity modulated radiation therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 85, 941-7	4	88
140	Modeling respiratory motion for reducing motion artifacts in 4D CT images. <i>Medical Physics</i> , 2013 , 40, 041716	4.4	43
139	Anatomic variation and dosimetric consequences of neoadjuvant hormone therapy before radiation therapy for prostate cancer. <i>Practical Radiation Oncology</i> , 2013 , 3, 329-36	2.8	1
138	Anatomic distribution of [(18)F] fluorodeoxyglucose-avid lymph nodes in patients with cervical cancer. <i>Practical Radiation Oncology</i> , 2013 , 3, 45-53	2.8	18
137	Quality of life and toxicity from passively scattered and spot-scanning proton beam therapy for localized prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 87, 946-53	4	31
136	Anatomic distribution of fluorodeoxyglucose-avid para-aortic lymph nodes in patients with cervical cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 85, 1045-50	4	28
135	Osteoradionecrosis and radiation dose to the mandible in patients with oropharyngeal cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 85, 415-20	4	146
134	Adaptive radiotherapy for head and neck cancer--dosimetric results from a prospective clinical trial. <i>Radiotherapy and Oncology</i> , 2013 , 106, 80-4	5.3	123
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