

Lei Dong

List of Publications by Citations

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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	Long-term results of the M. D. Anderson randomized dose-escalation trial for prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 70, 67-74	4	951
284	Quantification of volumetric and geometric changes occurring during fractionated radiotherapy for head-and-neck cancer using an integrated CT/linear accelerator system. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004 , 59, 960-70	4	515
283	Validation of an accelerated demons algorithm for deformable image registration in radiation therapy. <i>Physics in Medicine and Biology</i> , 2005 , 50, 2887-905	3.8	459
282	Increased risk of biochemical and local failure in patients with distended rectum on the planning CT for prostate cancer radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 62, 965-73	4	312
281	Dosimetry tools and techniques for IMRT. <i>Medical Physics</i> , 2011 , 38, 1313-38	4.4	280
280	Assessing respiration-induced tumor motion and internal target volume using four-dimensional computed tomography for radiotherapy of lung cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 68, 531-40	4	266
279	Late rectal toxicity: dose-volume effects of conformal radiotherapy for prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002 , 54, 1314-21	4	251
278	Comprehensive analysis of proton range uncertainties related to patient stopping-power-ratio estimation using the stoichiometric calibration. <i>Physics in Medicine and Biology</i> , 2012 , 57, 4095-115	3.8	213
277	Stereotactic body radiation therapy in centrally and superiorly located stage I or isolated recurrent non-small-cell lung cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 72, 967-71	4	208
276	Use of deformed intensity distributions for on-line modification of image-guided IMRT to account for interfractional anatomic changes. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 61, 1258-66	4	191
275	Feasibility of sparing lung and other thoracic structures with intensity-modulated radiotherapy for non-small-cell lung cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004 , 58, 1268-79 ⁴		179
274	An evidence based review of proton beam therapy: the report of ASTRO's emerging technology committee. <i>Radiotherapy and Oncology</i> , 2012 , 103, 8-11	5.3	175
273	Reducing metal artifacts in cone-beam CT images by preprocessing projection data. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 67, 924-32	4	175
272	Quality assurance for image-guided radiation therapy utilizing CT-based technologies: a report of the AAPM TG-179. <i>Medical Physics</i> , 2012 , 39, 1946-63	4.4	174
271	Intrafraction prostate motion during IMRT for prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002 , 53, 261-8	4	173
270	4D Proton treatment planning strategy for mobile lung tumors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 67, 906-14	4	164
269	Adaptive radiotherapy for head-and-neck cancer: initial clinical outcomes from a prospective trial. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 83, 986-93	4	152

268	Implementation and validation of a three-dimensional deformable registration algorithm for targeted prostate cancer radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 61, 725-35	4	152
267	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
266	Multiple regions-of-interest analysis of setup uncertainties for head-and-neck cancer radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006 , 64, 1559-69	4	141
265	Candidate dosimetric predictors of long-term swallowing dysfunction after oropharyngeal intensity-modulated radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 78, 1356-65	4	130
264	Experience of ultrasound-based daily prostate localization. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003 , 56, 436-47	4	129
263	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
262	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
261	Disease-control rates following intensity-modulated radiation therapy for small primary oropharyngeal carcinoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 67, 438-44	4	117
260	Objective assessment of deformable image registration in radiotherapy: a multi-institution study. <i>Medical Physics</i> , 2008 , 35, 5944-53	4.4	116
259	A beam-specific planning target volume (PTV) design for proton therapy to account for setup and range uncertainties. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 82, e329-36	4	114
258	Parotid gland dose in intensity-modulated radiotherapy for head and neck cancer: is what you plan what you get?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 69, 1290-6	4	112
257	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
256	An automatic CT-guided adaptive radiation therapy technique by online modification of multileaf collimator leaf positions for prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 62, 154-63	4	111
255	Investigation of bladder dose and volume factors influencing late urinary toxicity after external beam radiotherapy for prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 67, 1059-65	4	110
254	Hazards of dose escalation in prostate cancer radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003 , 57, 1260-8	4	110
253	Effectiveness of noncoplanar IMRT planning using a parallelized multiresolution beam angle optimization method for paranasal sinus carcinoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 63, 594-601	4	110
252	Ppb-level detection of nitric oxide using an external cavity quantum cascade laser based QEPAS sensor. <i>Optics Express</i> , 2011 , 19, 24037-45	3.3	107
251	Physics controversies in proton therapy. <i>Seminars in Radiation Oncology</i> , 2013 , 23, 88-96	5.5	105

250	Recent advances in quartz enhanced photoacoustic sensing. <i>Applied Physics Reviews</i> , 2018 , 5, 011106	17.3	103
249	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
248	Comparison of 2D radiographic images and 3D cone beam computed tomography for positioning head-and-neck radiotherapy patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 71, 916-25	4	100
247	Intensity-modulated proton therapy further reduces normal tissue exposure during definitive therapy for locally advanced distal esophageal tumors: a dosimetric study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 81, 1336-42	4	99
246	Intensity-modulated radiotherapy following extrapleural pneumonectomy for the treatment of malignant mesothelioma: clinical implementation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003 , 55, 606-16	4	99
245	Evaluation of mechanical precision and alignment uncertainties for an integrated CT/LINAC system. <i>Medical Physics</i> , 2003 , 30, 1198-210	4.4	99
244	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
243	Reduce in variation and improve efficiency of target volume delineation by a computer-assisted system using a deformable image registration approach. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 68, 1512-21	4	97
242	Effectiveness of robust optimization in intensity-modulated proton therapy planning for head and neck cancers. <i>Medical Physics</i> , 2013 , 40, 051711	4.4	96
241	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
240	Image-guided radiation therapy for non-small cell lung cancer. <i>Journal of Thoracic Oncology</i> , 2008 , 3, 177-86	8.9	88
239	Use of portal images and BAT ultrasonography to measure setup error and organ motion for prostate IMRT: implications for treatment margins. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003 , 56, 1218-24	4	88
238	Comparison of rectal dose-wall histogram versus dose-volume histogram for modeling the incidence of late rectal bleeding after radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004 , 60, 1589-601	4	87
237	Patient-specific point dose measurement for IMRT monitor unit verification. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003 , 56, 867-77	4	87
236	Performance evaluation of automatic anatomy segmentation algorithm on repeat or four-dimensional computed tomography images using deformable image registration method. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 72, 210-9	4	85
235	Automatic registration of the prostate for computed-tomography-guided radiotherapy. <i>Medical Physics</i> , 2003 , 30, 2750-7	4.4	85
234	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
233	Automatic segmentation of whole breast using atlas approach and deformable image registration. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 73, 1493-500	4	81

232	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
231	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
230	Effect of anatomic motion on proton therapy dose distributions in prostate cancer treatment. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 67, 620-9	4	77
229	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
228	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
227	Intensity modulated radiation therapy (IMRT) following prostatectomy: more favorable acute genitourinary toxicity profile compared to primary IMRT for prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2001 , 49, 465-72	4	72
226	Monte Carlo simulations of the dosimetric impact of radiopaque fiducial markers for proton radiotherapy of the prostate. <i>Physics in Medicine and Biology</i> , 2007 , 52, 2937-52	3.8	71
225	Proton radiotherapy for liver tumors: dosimetric advantages over photon plans. <i>Medical Dosimetry</i> , 2008 , 33, 259-67	1.3	69
224	Evaluation of respiratory-induced target motion for esophageal tumors at the gastroesophageal junction. <i>Radiotherapy and Oncology</i> , 2007 , 84, 283-9	5.3	66
223	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
222	Single-tube on-beam quartz-enhanced photoacoustic spectroscopy. <i>Optics Letters</i> , 2016 , 41, 978-81	3	65
221	Dose-volume response analyses of late rectal bleeding after radiotherapy for prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004 , 59, 353-65	4	64
220	Development of methods for beam angle optimization for IMRT using an accelerated exhaustive search strategy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004 , 60, 1325-37	4	64
219	The use of rectal balloon during the delivery of intensity modulated radiotherapy (IMRT) for prostate cancer: more than just a prostate gland immobilization device?. <i>Cancer Journal (Sudbury, Mass)</i> , 2002 , 8, 476-83	2.2	64
218	Estimation of \overline{R} for late rectal toxicity based on RTOG 94-06. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 81, 600-5	4	63
217	Dose-response characteristics of low- and intermediate-risk prostate cancer treated with external beam radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 61, 993-1002	4	62
216	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
215	An image correlation procedure for digitally reconstructed radiographs and electronic portal images. <i>International Journal of Radiation Oncology Biology Physics</i> , 1995 , 33, 1053-60	4	61

214	Trace gas detection based on off-beam quartz enhanced photoacoustic spectroscopy: optimization and performance evaluation. <i>Review of Scientific Instruments</i> , 2010 , 81, 103103	1.7	60
213	Quantification of prostate and seminal vesicle interfraction variation during IMRT. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 71, 813-20	4	60
212	Clinical practice guidance for radiotherapy planning after induction chemotherapy in locoregionally advanced head-and-neck cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 75, 725-33	4	59
211	Rapid radiographic film calibration for IMRT verification using automated MLC fields. <i>Medical Physics</i> , 2002 , 29, 2384-90	4.4	59
210	A deformable image registration method to handle distended rectums in prostate cancer radiotherapy. <i>Medical Physics</i> , 2006 , 33, 3304-12	4.4	57
209	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
208	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
207	Double acoustic microresonator quartz-enhanced photoacoustic spectroscopy. <i>Optics Letters</i> , 2014 , 39, 2479-82	3	53
206	Accuracy of two heterogeneity dose calculation algorithms for IMRT in treatment plans designed using an anthropomorphic thorax phantom. <i>Medical Physics</i> , 2007 , 34, 1850-7	4.4	53
205	Beam angle optimization and reduction for intensity-modulated radiation therapy of non-small-cell lung cancers. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006 , 65, 561-72	4	51
204	Dosimetric accuracy of Kodak EDR2 film for IMRT verifications. <i>Medical Physics</i> , 2005 , 32, 539-48	4.4	51
203	Ultrasound-based localization. <i>Seminars in Radiation Oncology</i> , 2005 , 15, 180-91	5.5	50
202	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
201	Compact photoacoustic module for methane detection incorporating interband cascade light emitting device. <i>Optics Express</i> , 2017 , 25, 16761-16770	3.3	49
200	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
199	Dose constraints to prevent radiation-induced brachial plexopathy in patients treated for lung cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 82, e391-8	4	48
198	Dosimetric comparison of four target alignment methods for prostate cancer radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006 , 66, 883-91	4	48
197	Characterization of rectal normal tissue complication probability after high-dose external beam radiotherapy for prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004 , 58, 1513-9	4	48

196	Rectal wall sparing by dosimetric effect of rectal balloon used during intensity-modulated radiation therapy (IMRT) for prostate cancer. <i>Medical Dosimetry</i> , 2005 , 30, 25-30	1.3	48
195	Adaptive radiation therapy for head and neck cancer-can an old goal evolve into a new standard?. <i>Journal of Oncology</i> , 2011 , 2011,	4.5	47
194	Late rectal toxicity on RTOG 94-06: analysis using a mixture Lyman model. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 78, 1253-60	4	47
193	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
192	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
191	Statistical assessment of proton treatment plans under setup and range uncertainties. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 86, 1007-13	4	45
190	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
189	Modeling respiratory motion for reducing motion artifacts in 4D CT images. <i>Medical Physics</i> , 2013 , 40, 041716	4.4	43
188	Speed and convergence properties of gradient algorithms for optimization of IMRT. <i>Medical Physics</i> , 2004 , 31, 1141-52	4.4	43
187	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
186	Recent progress on laser-induced breakdown spectroscopy for the monitoring of coal quality and unburned carbon in fly ash. <i>Frontiers of Physics</i> , 2012 , 7, 690-700	3.7	42
185	Evaluation of a contour-alignment technique for CT-guided prostate radiotherapy: an intra- and interobserver study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004 , 59, 412-8	4	42
184	ppb-Level SO Photoacoustic Sensors with a Suppressed Absorption-Desorption Effect by Using a 7.41 μm External-Cavity Quantum Cascade Laser. <i>ACS Sensors</i> , 2020 , 5, 549-556	9.2	41
183	Cluster model analysis of late rectal bleeding after IMRT of prostate cancer: a case-control study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006 , 64, 1255-64	4	41
182	A method of simulating dynamic multileaf collimators using Monte Carlo techniques for intensity-modulated radiation therapy. <i>Physics in Medicine and Biology</i> , 2001 , 46, 2283-98	3.8	40
181	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
180	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
179	Analysis of overtone flexural modes operation in quartz-enhanced photoacoustic spectroscopy. <i>Optics Express</i> , 2016 , 24, A682-92	3.3	38

178	Dose-response for biochemical control among high-risk prostate cancer patients after external beam radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003 , 56, 1234-40	4	37
177	Changes in the pelvic anatomy after an IMRT treatment fraction of prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 68, 1529-36	4	35
176	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
175	A portal image alignment and patient setup verification procedure using moments and correlation techniques. <i>Physics in Medicine and Biology</i> , 1996 , 41, 697-723	3.8	34
174	Dose sculpting with generalized equivalent uniform dose. <i>Medical Physics</i> , 2005 , 32, 1387-96	4.4	34
173	Highly sensitive and selective CO sensor using a 2.33 μ m diode laser and wavelength modulation spectroscopy. <i>Optics Express</i> , 2018 , 26, 24318-24328	3.3	33
172	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
171	Lack of correlation between external fiducial positions and internal tumor positions during breath-hold CT. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 76, 1586-91	4	32
170	Retrospective analysis of 2D patient-specific IMRT verifications. <i>Medical Physics</i> , 2005 , 32, 838-50	4.4	32
169	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
168	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
167	Toward a better understanding of the gamma index: Investigation of parameters with a surface-based distance method. <i>Medical Physics</i> , 2011 , 38, 6730-41	4.4	31
166	Verification of radiosurgery target point alignment with an electronic portal imaging device (EPID). <i>Medical Physics</i> , 1997 , 24, 263-7	4.4	31
165	Elastic image mapping for 4-D dose estimation in thoracic radiotherapy. <i>Radiation Protection Dosimetry</i> , 2005 , 115, 497-502	0.9	31
164	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
163	Effectiveness of using fewer implanted fiducial markers for prostate target alignment. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 74, 1283-9	4	30
162	Overtone resonance enhanced single-tube on-beam quartz enhanced photoacoustic spectrophone. <i>Applied Physics Letters</i> , 2016 , 109, 111103	3.4	30
161	Quartz-enhanced photoacoustic spectrophones exploiting custom tuning forks: a review. <i>Advances in Physics: X</i> , 2017 , 2, 169-187	5.1	29

160	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
159	Automatic contouring of brachial plexus using a multi-atlas approach for lung cancer radiotherapy. <i>Practical Radiation Oncology</i> , 2013 , 3,	2.8	29
158	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
157	Efficiency of respiratory-gated delivery of synchrotron-based pulsed proton irradiation. <i>Physics in Medicine and Biology</i> , 2008 , 53, 1947-59	3.8	29
156	Is a 3-mm intrafractional margin sufficient for daily image-guided intensity-modulated radiation therapy of prostate cancer?. <i>Radiotherapy and Oncology</i> , 2007 , 85, 251-9	5.3	29
155	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
154	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
153	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
152	Fiber-amplifier-enhanced QEPAS sensor for simultaneous trace gas detection of NH ₃ and H ₂ S. <i>Sensors</i> , 2015 , 15, 26743-55	3.8	28
151	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
150	A comparison of tumor motion characteristics between early stage and locally advanced stage lung cancers. <i>Radiotherapy and Oncology</i> , 2012 , 104, 33-8	5.3	26
149	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
148	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
147	Do intermediate radiation doses contribute to late rectal toxicity? An analysis of data from radiation therapy oncology group protocol 94-06. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 84, 390-5	4	25
146	Quantifying the interfractional displacement of the gastroesophageal junction during radiation therapy for esophageal cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 83, e273-80	4	25
145	The effect of dental artifacts, contrast media, and experience on interobserver contouring variations in head and neck anatomy. <i>American Journal of Clinical Oncology: Cancer Clinical Trials</i> , 2007 , 30, 191-8	2.7	25
144	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
143	. <i>IEEE Photonics Technology Letters</i> , 2016 , 28, 2351-2354	2.2	25

142	Cluster models of dose-volume effects. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004 , 59, 1491-504	4	24
141	Assessment of shoulder position variation and its impact on IMRT and VMAT doses for head and neck cancer. <i>Radiation Oncology</i> , 2012 , 7, 19	4.2	23
140	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
139	Current clinical coverage of Radiation Therapy Oncology Group-defined target volumes for postmastectomy radiation therapy. <i>Practical Radiation Oncology</i> , 2012 , 2, 201-209	2.8	23
138	Tumor-volume simulation during radiotherapy for head-and-neck cancer using a four-level cell population model. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 75, 595-602	4	23
137	Evaluation of tumor position and PTV margins using image guidance and respiratory gating. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 76, 1578-85	4	23
136	Assessing the impact of an alternative biochemical failure definition on radiation dose response for high-risk prostate cancer treated with external beam radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 61, 14-9	4	23
135	Highly sensitive photoacoustic multicomponent gas sensor for SF decomposition online monitoring. <i>Optics Express</i> , 2019 , 27, A224-A234	3.3	23
134	Double antinode excited quartz-enhanced photoacoustic spectrophone. <i>Applied Physics Letters</i> , 2017 , 110, 021110	3.4	22
133	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
132	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
131	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
130	Daily alignment results of in-room computed tomography-guided stereotactic body radiation therapy for lung cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 79, 473-80	4	21
129	Modulation cancellation method for isotope ¹⁸ O/ ¹⁶ O ratio measurements in water. <i>Optics Express</i> , 2012 , 20, 3401-7	3.3	21
128	High-sensitivity, large dynamic range, auto-calibration methane optical sensor using a short confocal Fabry-Pérot cavity. <i>Sensors and Actuators B: Chemical</i> , 2007 , 127, 350-357	8.5	21
127	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
126	Quartz-enhanced photoacoustic spectroscopy for hydrocarbon trace gas detection and petroleum exploration. <i>Fuel</i> , 2020 , 277, 118118	7.1	20
125	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

124	Comparison of treatment volumes and techniques in prostate cancer radiation therapy. <i>American Journal of Clinical Oncology: Cancer Clinical Trials</i> , 2005 , 28, 618-25	2.7	20
123	A pencil-beam photon dose algorithm for stereotactic radiosurgery using a miniature multileaf collimator. <i>Medical Physics</i> , 1998 , 25, 841-50	4.4	20
122	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
121	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
120	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
119	Advantages of simulating thoracic cancer patients in an upright position. <i>Practical Radiation Oncology</i> , 2014 , 4, e53-8	2.8	19
118	Modulation cancellation method for measurements of small temperature differences in a gas. <i>Optics Letters</i> , 2011 , 36, 460-2	3	19
117	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
116	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
115	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
114	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
113	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
112	Variable planning margin approach to account for locoregional variations in setup uncertainties. <i>Medical Physics</i> , 2012 , 39, 5136-44	4.4	16
111	Improving accuracy of electron density measurement in the presence of metallic implants using orthovoltage computed tomography. <i>Medical Physics</i> , 2008 , 35, 1932-41	4.4	15
110	A sensitivity-guided algorithm for automated determination of IMRT objective function parameters. <i>Medical Physics</i> , 2006 , 33, 2935-44	4.4	15
109	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
108	Compact and Highly Sensitive NO Photoacoustic Sensor for Environmental Monitoring. <i>Molecules</i> , 2020 , 25,	4.8	14
107	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

106	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	1.9	14
105	Metabolic imaging biomarkers of postradiotherapy xerostomia. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 83, 1609-16	4	14
104	Continuous-wave cavity ringdown spectroscopy based on the control of cavity reflection. <i>Optics Express</i> , 2013 , 21, 17961-71	3.3	14
103	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
102	Robust beam orientation optimization for intensity-modulated proton therapy. <i>Medical Physics</i> , 2019 , 46, 3356-3370	4.4	13
101	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
100	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
99	A novel dose-based positioning method for CT image-guided proton therapy. <i>Medical Physics</i> , 2013 , 40, 051714	4.4	13
98	The precision of respiratory-gated delivery of synchrotron-based pulsed beam proton therapy. <i>Physics in Medicine and Biology</i> , 2010 , 55, 7633-47	3.8	13
97	Compact portable QEPAS multi-gas sensor 2011 ,		13
96	Fast range-corrected proton dose approximation method using prior dose distribution. <i>Physics in Medicine and Biology</i> , 2012 , 57, 3555-69	3.8	13
95	A novel patch-field design using an optimized grid filter for passively scattered proton beams. <i>Physics in Medicine and Biology</i> , 2007 , 52, N265-75	3.8	13
94	Dosimetric verification for intensity-modulated radiotherapy of thoracic cancers using experimental and Monte Carlo approaches. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006 , 66, 939-48	4	13
93	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
92	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
91	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
90	Automated Knowledge-Based Intensity-Modulated Proton Planning: An International Multicenter Benchmarking Study. <i>Cancers</i> , 2018 , 10,	6.6	13
89	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

88	Point/Counterpoint. IGRT has limited clinical value due to lack of accurate tumor delineation. <i>Medical Physics</i> , 2013 , 40, 040601	4.4	12
87	Predictive value of 18F-fluorodeoxyglucose uptake by positron emission tomography for non-small cell lung cancer patients treated with radical radiotherapy. <i>Journal of Radiation Research</i> , 2010 , 51, 465-714	7.1	12
86	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
85	Mechanisms and efficient elimination approaches of self-absorption in LIBS. <i>Plasma Science and Technology</i> , 2019 , 21, 034016	1.5	11
84	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
83	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
82	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
81	A statistical modeling approach for evaluating auto-segmentation methods for image-guided radiotherapy. <i>Computerized Medical Imaging and Graphics</i> , 2012 , 36, 492-500	7.6	11
80	Improving soft-tissue contrast in four-dimensional computed tomography images of liver cancer patients using a deformable image registration method. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 72, 201-9	4	11
79	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
78	Intensity-Stabilized Fast-Scanned Direct Absorption Spectroscopy Instrumentation Based on a Distributed Feedback Laser with Detection Sensitivity down to 4 ppb. <i>Sensors</i> , 2016 , 16,	3.8	11
77	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
76	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
75	Cavity-enhanced photoacoustic sensor based on a whispering-gallery-mode diode laser. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 1905-1911	4	10
74	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
73	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
72	Multi-Quartz Enhanced Photoacoustic Spectroscopy with Different Acoustic Microresonator Configurations. <i>Journal of Spectroscopy</i> , 2015 , 2015, 1-6	1.5	10
71	A CT-based software tool for evaluating compensator quality in passively scattered proton therapy. <i>Physics in Medicine and Biology</i> , 2010 , 55, 6759-71	3.8	10

70	Narrowband Perfect Absorber Based on Dielectric-Metal Metasurface for Surface-Enhanced Infrared Sensing. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2295	2.6	9
69	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
68	Use of fractional dose-volume histograms to model risk of acute rectal toxicity among patients treated on RTOG 94-06. <i>Radiotherapy and Oncology</i> , 2012 , 104, 109-13	5.3	9
67	Compact QEPAS humidity sensor in SF buffer gas for high-voltage gas power systems.. <i>Photoacoustics</i> , 2022 , 25, 100319	9	9
66	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
65	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
64	Anisotropic margin expansions in 6 anatomic directions for oropharyngeal image guided radiation therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 87, 596-601	4	8
63	Real time detection of exhaled human breath using quantum cascade laser based sensor technology 2012 ,		8
62	The delivery of IMRT with a single physical modulator for multiple fields: a feasibility study for paranasal sinus cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004 , 58, 876-87	4	8
61	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
60	Quartz-enhanced photoacoustic spectroscopy for multi-gas detection: A review.. <i>Analytica Chimica Acta</i> , 2022 , 1202, 338894	6.6	8
59	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
58	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
57	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
56	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
55	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
54	Laser induced thermoelastic contributions from windows to signal background in a photoacoustic cell. <i>Photoacoustics</i> , 2021 , 22, 100257	9	7
53	Robust optimization for intensity-modulated proton therapy with soft spot sensitivity regularization. <i>Medical Physics</i> , 2019 , 46, 1408-1425	4.4	7

52	A volumetric trend analysis of the prostate and seminal vesicles during a course of intensity-modulated radiation therapy. <i>American Journal of Clinical Oncology: Cancer Clinical Trials</i> , 2010 , 33, 173-5	2.7	6
51	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
50	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
49	Acoustic Detection Module Design of a Quartz-Enhanced Photoacoustic Sensor. <i>Sensors</i> , 2019 , 19,	3.8	5
48	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
47	Laser-induced plasma characterization through self-absorption quantification. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 213, 143-148	2.1	5
46	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
45	Optimization Investigations of Continuous Wave Cavity Ringdown Spectroscopy. <i>Applied Physics Express</i> , 2013 , 6, 072402	2.4	5
44	Daily targeting of liver tumors: screening patients with a mock treatment and using a combination of internal and external fiducials for image-guided respiratory-gated radiotherapy. <i>Medical Physics</i> , 2007 , 34, 4591-3	4.4	5
43	Quartz-Enhanced Photothermal-Acoustic Spectroscopy for Trace Gas Analysis. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4021	2.6	5
42	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
41	Elliptical-tube off-beam quartz-enhanced photoacoustic spectroscopy. <i>Applied Physics Letters</i> , 2022 , 120, 171101	3.4	5
40	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
39	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
38	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
37	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
36	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
35	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

34	Quartz-enhanced conductance spectroscopy for nanomechanical analysis of polymer wire. <i>Applied Physics Letters</i> , 2015 , 107, 221903	3.4	3
33	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
32	Proton therapy for Hodgkin lymphoma: does a case report make the case?. <i>Leukemia and Lymphoma</i> , 2010 , 51, 1397-8	1.9	3
31	Daily bone alignment with limited repeat CT correction rivals daily ultrasound alignment for prostate radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 71, 274-80	4	3
30	Quartz-enhanced photoacoustic spectroscopy exploiting a fast and wideband electro-mechanical light modulator. <i>Optics Express</i> , 2020 , 28, 27966-27973	3.3	3
29	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
28	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
27	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 ⁵	1.5	2
26	Optical Detection Technique Using Quartz-Enhanced Photoacoustic Spectrum. <i>International Journal of Thermophysics</i> , 2015 , 36, 1297-1304	2.1	2
25	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
24	Automating RTOG-defined target volumes for postmastectomy radiation therapy. <i>Practical Radiation Oncology</i> , 2011 , 1, 97-104	2.8	2
23	Influence of Tuning Fork Resonance Properties on Quartz-Enhanced Photoacoustic Spectroscopy Performance. <i>Sensors</i> , 2019 , 19,	3.8	2
22	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
21	A compact mid-infrared dual-gas CH ₄ /C ₂ H ₆ sensor using a single interband cascade laser and custom electronics 2017 ,		1
20	Compact sound-speed sensor for quartz enhanced photoacoustic spectroscopy based applications. <i>Review of Scientific Instruments</i> , 2015 , 86, 044903	1.7	1
19	Design and Optimization of QTF Chopper for Quartz-Enhanced Photoacoustic Spectroscopy. <i>International Journal of Thermophysics</i> , 2015 , 36, 1289-1296	2.1	1
18	Quartz Enhanced Photoacoustic Detection Based on an Elliptical Laser Beam. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1197	2.6	1
17	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 2016 ,		1

16	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
15	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
14	Improvements in medical CT image reconstruction accuracy in the presence of metal objects by using x-rays up to 1 MeV 2009 ,		1
13	Cherenkov imaging for Total Skin Electron Therapy (TSET) 2018 ,		1
12	Novel direct conversion imaging detector without selenium or semiconductor conversion layer 2019 ,		1
11	New Developments in Quartz-Enhanced Photoacoustic Sensing Real-World Applications 2020 ,		1
10	Innovative quartz enhanced photoacoustic sensors for trace gas detection 2016 ,		1
9	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
8	Efficient double-scattering proton therapy with a patient-specific bolus. <i>Physica Medica</i> , 2018 , 50, 1-6	2.7	1
7	Quartz Enhanced Conductance Spectroscopy for Polymer Nano-Mechanical Thermal Analysis. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4954	2.6	0
6	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
5	Near-Infrared Quartz-Enhanced Photoacoustic Sensor for H ₂ S Detection in Biogas. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5347	2.6	0
4	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	
3	Advanced Topics in Particle Radiotherapy. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2022 , 1-1	4.2	
2	SU-E-J-138: The Effect of Shoulder Variation on IMRT and SmartArc Plans for Head and Neck Cancer. <i>Medical Physics</i> , 2011 , 38, 3474-3474	4.4	
1	Technical Note: Solving the "Chinese postman problem" for effective contour deformation. <i>Medical Physics</i> , 2018 , 45, 767-772	4.4	