

Lei Dong

List of Publications by Year in descending order

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306
papers

18,226
citations

10986

71
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17105

122
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all docs

310
docs citations

310
times ranked

9373
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-Term Results of the M. D. Anderson Randomized Dose-Escalation Trial for Prostate Cancer. International Journal of Radiation Oncology Biology Physics, 2008, 70, 67-74.	0.8	1,137
2	Quantification of volumetric and geometric changes occurring during fractionated radiotherapy for head-and-neck cancer using an integrated CT/linear accelerator system. International Journal of Radiation Oncology Biology Physics, 2004, 59, 960-970.	0.8	643
3	Validation of an accelerated "demon" algorithm for deformable image registration in radiation therapy. Physics in Medicine and Biology, 2005, 50, 2887-2905.	3.0	537
4	Increased risk of biochemical and local failure in patients with distended rectum on the planning CT for prostate cancer radiotherapy. International Journal of Radiation Oncology Biology Physics, 2005, 62, 965-973.	0.8	385
5	Dosimetry tools and techniques for IMRT. Medical Physics, 2011, 38, 1313-1338.	3.0	359
6	Assessing Respiration-Induced Tumor Motion and Internal Target Volume Using Four-Dimensional Computed Tomography for Radiotherapy of Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2007, 68, 531-540.	0.8	306
7	Late rectal toxicity: dose-volume effects of conformal radiotherapy for prostate cancer. International Journal of Radiation Oncology Biology Physics, 2002, 54, 1314-1321.	0.8	279
8	Comprehensive analysis of proton range uncertainties related to patient stopping-power-ratio estimation using the stoichiometric calibration. Physics in Medicine and Biology, 2012, 57, 4095-4115.	3.0	273
9	Stereotactic Body Radiation Therapy in Centrally and Superiorly Located Stage I or Isolated Recurrent Non-Small-Cell Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2008, 72, 967-971.	0.8	251
10	Quality assurance for image-guided radiation therapy utilizing CT-based technologies: A report of the AAPM TG-179. Medical Physics, 2012, 39, 1946-1963.	3.0	251
11	Use of deformed intensity distributions for on-line modification of image-guided IMRT to account for interfractional anatomic changes. International Journal of Radiation Oncology Biology Physics, 2005, 61, 1258-1266.	0.8	218
12	Beat frequency quartz-enhanced photoacoustic spectroscopy for fast and calibration-free continuous trace-gas monitoring. Nature Communications, 2017, 8, 15331.	12.8	213
13	An evidence based review of proton beam therapy: The report of ASTRO's emerging technology committee. Radiotherapy and Oncology, 2012, 103, 8-11.	0.6	212
14	Reducing metal artifacts in cone-beam CT images by preprocessing projection data. International Journal of Radiation Oncology Biology Physics, 2007, 67, 924-932.	0.8	209
15	Osteoradionecrosis and Radiation Dose to the Mandible in Patients With Oropharyngeal Cancer. International Journal of Radiation Oncology Biology Physics, 2013, 85, 415-420.	0.8	209
16	Adaptive Radiotherapy for Head-and-Neck Cancer: Initial Clinical Outcomes From a Prospective Trial. International Journal of Radiation Oncology Biology Physics, 2012, 83, 986-993.	0.8	205
17	Feasibility of sparing lung and other thoracic structures with intensity-modulated radiotherapy for non-small-cell lung cancer. International Journal of Radiation Oncology Biology Physics, 2004, 58, 1268-1279.	0.8	199
18	Intrafraction prostate motion during IMRT for prostate cancer. International Journal of Radiation Oncology Biology Physics, 2002, 53, 261-268.	0.8	193

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19	Report of the AAPM TG256 on the relative biological effectiveness of proton beams in radiation therapy. Medical Physics, 2019, 46, e53-e78.	3.0	189
20	4D Proton treatment planning strategy for mobile lung tumors. International Journal of Radiation Oncology Biology Physics, 2007, 67, 906-914.	0.8	178
21	Recent advances in quartz enhanced photoacoustic sensing. Applied Physics Reviews, 2018, 5, .	11.3	174
22	Implementation and validation of a three-dimensional deformable registration algorithm for targeted prostate cancer radiotherapy. International Journal of Radiation Oncology Biology Physics, 2005, 61, 725-735.	0.8	168
23	Adaptive radiotherapy for head and neck cancer—Dosimetric results from a prospective clinical trial. Radiotherapy and Oncology, 2013, 106, 80-84.	0.6	168
24	Multiple regions-of-interest analysis of setup uncertainties for head-and-neck cancer radiotherapy. International Journal of Radiation Oncology Biology Physics, 2006, 64, 1559-1569.	0.8	165
25	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
26	Candidate Dosimetric Predictors of Long-Term Swallowing Dysfunction After Oropharyngeal Intensity-Modulated Radiotherapy. International Journal of Radiation Oncology Biology Physics, 2010, 78, 1356-1365.	0.8	156
27	Compact TDLAS based sensor design using interband cascade lasers for mid-IR trace gas sensing. Optics Express, 2016, 24, A528.	3.4	150
28	A Beam-Specific Planning Target Volume (PTV) Design for Proton Therapy to Account for Setup and Range Uncertainties. International Journal of Radiation Oncology Biology Physics, 2012, 82, e329-e336.	0.8	145
29	Experience of ultrasound-based daily prostate localization. International Journal of Radiation Oncology Biology Physics, 2003, 56, 436-447.	0.8	144
30	Effectiveness of robust optimization in intensity-modulated proton therapy planning for head and neck cancers. Medical Physics, 2013, 40, 051711.	3.0	135
31	Objective assessment of deformable image registration in radiotherapy: A multi-institution study. Medical Physics, 2008, 35, 5944-5953.	3.0	132
32	Disease-control rates following intensity-modulated radiation therapy for small primary oropharyngeal carcinoma. International Journal of Radiation Oncology Biology Physics, 2007, 67, 438-444.	0.8	130
33	Parotid Gland Dose in Intensity-Modulated Radiotherapy for Head and Neck Cancer: Is What You Plan What You Get?. International Journal of Radiation Oncology Biology Physics, 2007, 69, 1290-1296.	0.8	130
34	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
35	Investigation of bladder dose and volume factors influencing late urinary toxicity after external beam radiotherapy for prostate cancer. International Journal of Radiation Oncology Biology Physics, 2007, 67, 1059-1065.	0.8	127
36	Physics Controversies in Proton Therapy. Seminars in Radiation Oncology, 2013, 23, 88-96.	2.2	127

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37	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
38	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, 154-163.	0.8	125
39	Ppb-level detection of nitric oxide using an external cavity quantum cascade laser based QEPAS sensor. <i>Optics Express</i> , 2011, 19, 24037.	3.4	122
40	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, 1336-1342.	0.8	122
41	Hazards of dose escalation in prostate cancer radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003, 57, 1260-1268.	0.8	121
42	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.	0.8	120
43	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.	0.8	119
44	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, 1512-1521.	0.8	113
45	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, 916-925.	0.8	112
46	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, 606-616.	0.8	110
47	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.	7.8	108
48	Evaluation of mechanical precision and alignment uncertainties for an integrated CT/LINAC system. <i>Medical Physics</i> , 2003, 30, 1198-1210.	3.0	107
49	Automatic Segmentation of Whole Breast Using Atlas Approach and Deformable Image Registration. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 73, 1493-1500.	0.8	102
50	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, 1218-1224.	0.8	101
51	Image-Guided Radiation Therapy for Non-small Cell Lung Cancer. <i>Journal of Thoracic Oncology</i> , 2008, 3, 177-186.	1.1	101
52	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
53	Patient-specific point dose measurement for IMRT monitor unit verification. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003, 56, 867-877.	0.8	100
54	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, 941-947.	0.8	99

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55	Performance Evaluation of Automatic Anatomy Segmentation Algorithm on Repeat or Four-Dimensional Computed Tomography Images Using Deformable Image Registration Method. International Journal of Radiation Oncology Biology Physics, 2008, 72, 210-219.	0.8	98
56	Automatic registration of the prostate for computed-tomography-guided radiotherapy. Medical Physics, 2003, 30, 2750-2757.	3.0	94
57	Comparison of rectal doseâ€“wall histogram versus doseâ€“volume histogram for modeling the incidence of late rectal bleeding after radiotherapy. International Journal of Radiation Oncology Biology Physics, 2004, 60, 1589-1601.	0.8	94
58	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
59	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
60	Effect of anatomic motion on proton therapy dose distributions in prostate cancer treatment. International Journal of Radiation Oncology Biology Physics, 2007, 67, 620-629.	0.8	89
61	Single-tube on-beam quartz-enhanced photoacoustic spectroscopy. Optics Letters, 2016, 41, 978.	3.3	88
62	Monte Carlo simulations of the dosimetric impact of radiopaque fiducial markers for proton radiotherapy of the prostate. Physics in Medicine and Biology, 2007, 52, 2937-2952.	3.0	83
63	Proton Radiotherapy for Liver Tumors: Dosimetric Advantages Over Photon Plans. Medical Dosimetry, 2008, 33, 259-267.	0.9	83
64	Clinical Practice Guidance for Radiotherapy Planning After Induction Chemotherapy in Locoregionally Advanced Head-and-Neck Cancer. International Journal of Radiation Oncology Biology Physics, 2009, 75, 725-733.	0.8	80
65	Intensity modulated radiation therapy (IMRT) following prostatectomy: more favorable acute genitourinary toxicity profile compared to primary IMRT for prostate cancer. International Journal of Radiation Oncology Biology Physics, 2001, 49, 465-472.	0.8	79
66	ppb-Level SO ₂ Photoacoustic Sensors with a Suppressed Absorptionâ€“Desorption Effect by Using a 7.41 μ m External-Cavity Quantum Cascade Laser. ACS Sensors, 2020, 5, 549-556.	7.8	79
67	Quartz-enhanced photoacoustic spectroscopy for multi-gas detection: A review. Analytica Chimica Acta, 2022, 1202, 338894.	5.4	79
68	Estimation of \hat{I}_{\pm}/\hat{I}^2 for Late Rectal Toxicity Based on RTOG 94-06. International Journal of Radiation Oncology Biology Physics, 2011, 81, 600-605.	0.8	76
69	High and flat spectral responsivity of quartz tuning fork used as infrared photodetector in tunable diode laser spectroscopy. Applied Physics Reviews, 2021, 8, .	11.3	76
70	The Use of Rectal Balloon During the Delivery of Intensity Modulated Radiotherapy (IMRT) for Prostate Cancer. Cancer Journal (Sudbury, Mass), 2002, 8, 476-483.	2.0	75
71	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
72	Development of methods for beam angle optimization for IMRT using an accelerated exhaustive search strategy. International Journal of Radiation Oncology Biology Physics, 2004, 60, 1325-1337.	0.8	74

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73	Quantification of Prostate and Seminal Vesicle Interfraction Variation During IMRT. International Journal of Radiation Oncology Biology Physics, 2008, 71, 813-820.	0.8	74
74	Mid-infrared dual-gas sensor for simultaneous detection of methane and ethane using a single continuous-wave interband cascade laser. Optics Express, 2016, 24, 16973.	3.4	74
75	Evaluation of respiratory-induced target motion for esophageal tumors at the gastroesophageal junction. Radiotherapy and Oncology, 2007, 84, 283-289.	0.6	73
76	Trace gas detection based on off-beam quartz enhanced photoacoustic spectroscopy: Optimization and performance evaluation. Review of Scientific Instruments, 2010, 81, 103103.	1.3	70
77	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
78	An image correlation procedure for digitally reconstructed radiographs and electronic portal images. International Journal of Radiation Oncology Biology Physics, 1995, 33, 1053-1060.	0.8	69
79	Dose-response characteristics of low- and intermediate-risk prostate cancer treated with external beam radiotherapy. International Journal of Radiation Oncology Biology Physics, 2005, 61, 993-1002.	0.8	68
80	Dose Constraints to Prevent Radiation-Induced Brachial Plexopathy in Patients Treated for Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2012, 82, e391-e398.	0.8	67
81	Ppb-Level Quartz-Enhanced Photoacoustic Detection of Carbon Monoxide Exploiting a Surface Grooved Tuning Fork. Analytical Chemistry, 2019, 91, 5834-5840.	6.5	67
82	Three-Dimensional Printed Miniature Fiber-Coupled Multipass Cells with Dense Spot Patterns for ppb-Level Methane Detection Using a Near-IR Diode Laser. Analytical Chemistry, 2020, 92, 13034-13041.	6.5	67
83	Dose-volume response analyses of late rectal bleeding after radiotherapy for prostate cancer. International Journal of Radiation Oncology Biology Physics, 2004, 59, 353-365.	0.8	66
84	Rapid radiographic film calibration for IMRT verification using automated MLC fields. Medical Physics, 2002, 29, 2384-2390.	3.0	64
85	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
86	Compact photoacoustic module for methane detection incorporating interband cascade light emitting device. Optics Express, 2017, 25, 16761.	3.4	63
87	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. Sensors and Actuators B: Chemical, 2019, 282, 567-573.	7.8	63
88	Ultrasound-Based Localization. Seminars in Radiation Oncology, 2005, 15, 180-191.	2.2	62
89	Dosimetric accuracy of Kodak EDR2 film for IMRT verifications. Medical Physics, 2005, 32, 539-548.	3.0	61
90	A deformable image registration method to handle distended rectums in prostate cancer radiotherapy. Medical Physics, 2006, 33, 3304-3312.	3.0	61

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91	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
92	Accuracy of two heterogeneity dose calculation algorithms for IMRT in treatment plans designed using an anthropomorphic thorax phantom. <i>Medical Physics</i> , 2007, 34, 1850-1857.	3.0	60
93	Late Rectal Toxicity on RTOG 94-06: Analysis Using a Mixture Lyman Model. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 78, 1253-1260.	0.8	60
94	Double acoustic microresonator quartz-enhanced photoacoustic spectroscopy. <i>Optics Letters</i> , 2014, 39, 2479.	3.3	58
95	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.	3.4	58
96	Analysis of overtone flexural modes operation in quartz-enhanced photoacoustic spectroscopy. <i>Optics Express</i> , 2016, 24, A682.	3.4	57
97	Ppb-level gas detection using on-beam quartz-enhanced photoacoustic spectroscopy based on a 28ÅkHz tuning fork. <i>Photoacoustics</i> , 2022, 25, 100321.	7.8	57
98	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, 1513-1519.	0.8	56
99	Adaptive Radiation Therapy for Head and Neck Cancer—Can an Old Goal Evolve into a New Standard?. <i>Journal of Oncology</i> , 2011, 2011, 1-13.	1.3	56
100	Dosimetric benefits of robust treatment planning for intensity modulated proton therapy for base-of-skull cancers. <i>Practical Radiation Oncology</i> , 2014, 4, 384-391.	2.1	56
101	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.	0.9	55
102	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, 561-572.	0.8	55
103	Speed and convergence properties of gradient algorithms for optimization of IMRT. <i>Medical Physics</i> , 2004, 31, 1141-1152.	3.0	53
104	Statistical Assessment of Proton Treatment Plans Under Setup and Range Uncertainties. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 86, 1007-1013.	0.8	53
105	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
106	Highly sensitive and selective CO sensor using a 233 Å diode laser and wavelength modulation spectroscopy. <i>Optics Express</i> , 2018, 26, 24318.	3.4	52
107	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
108	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, 412-418.	0.8	50

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109	Dosimetric comparison of four target alignment methods for prostate cancer radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 66, 883-891.	0.8	49
110	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	49
111	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.	3.4	49
112	Highly sensitive photoacoustic multicomponent gas sensor for SF ₆ decomposition online monitoring. <i>Optics Express</i> , 2019, 27, A224.	3.4	49
113	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, .	3.3	48
114	Cluster model analysis of late rectal bleeding after IMRT of prostate cancer: A caseâ€“control study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 64, 1255-1264.	0.8	47
115	Modeling respiratory motion for reducing motion artifacts in 4D CT images. <i>Medical Physics</i> , 2013, 40, 041716.	3.0	47
116	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
117	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.	2.9	46
118	Overtone resonance enhanced single-tube on-beam quartz enhanced photoacoustic spectrophone. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	46
119	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.	3.4	46
120	Quartz-enhanced photoacoustic sensor for ethylene detection implementing optimized custom tuning fork-based spectrophone. <i>Optics Express</i> , 2019, 27, 4271.	3.4	46
121	Integrated beam orientation and scanningâ€“spot optimization in intensityâ€“modulated proton therapy for brain and unilateral head and neck tumors. <i>Medical Physics</i> , 2018, 45, 1338-1350.	3.0	45
122	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, 2283-2298.	3.0	44
123	Toward a better understanding of the gamma index: Investigation of parameters with a surfaceâ€“based	3.0	44
124	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.	5.0	44
125	Quartzâ€“enhanced photoacoustic spectrophones exploiting custom tuning forks: a review. <i>Advances in Physics: X</i> , 2017, 2, 169-187.	4.1	44
126	Quartz-enhanced photoacoustic spectroscopy for hydrocarbon trace gas detection and petroleum exploration. <i>Fuel</i> , 2020, 277, 118118.	6.4	43

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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.	7.8	43
128	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
129	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
130	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.	1.9	42
131	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
132	Changes in the Pelvic Anatomy After an IMRT Treatment Fraction of Prostate Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 68, 1529-1536.	0.8	41
133	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.	7.8	41
134	Dose sculpting with generalized equivalent uniform dose. <i>Medical Physics</i> , 2005, 32, 1387-1396.	3.0	40
135	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, 1234-1240.	0.8	39
136	A comparison of tumor motion characteristics between early stage and locally advanced stage lung cancers. <i>Radiotherapy and Oncology</i> , 2012, 104, 33-38.	0.6	39
137	Verification of radiosurgery target point alignment with an electronic portal imaging device (EPID). <i>Medical Physics</i> , 1997, 24, 263-267.	3.0	38
138	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, 946-953.	0.8	38
139	Fiber-Amplifier-Enhanced QEPAS Sensor for Simultaneous Trace Gas Detection of NH ₃ and H ₂ S. <i>Sensors</i> , 2015, 15, 26743-26755.	3.8	38
140	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.	7.8	38
141	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.	3.0	37
142	Automatic contouring of brachial plexus using a multi-atlas approach for lung cancer radiation therapy. <i>Practical Radiation Oncology</i> , 2013, 3, e139-e147.	2.1	37
143	H ₂ S quartz-enhanced photoacoustic spectroscopy sensor employing a liquid-nitrogen-cooled THz quantum cascade laser operating in pulsed mode. <i>Photoacoustics</i> , 2021, 21, 100219.	7.8	37
144	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, 1586-1591.	0.8	36

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145	Position effects of acoustic micro-resonator in quartz enhanced photoacoustic spectroscopy. <i>Sensors and Actuators B: Chemical</i> , 2015, 206, 364-370.	7.8	36
146	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, 251-259.	0.6	35
147	Advantages of simulating thoracic cancer patients in an upright position. <i>Practical Radiation Oncology</i> , 2014, 4, e53-e58.	2.1	35
148	Retrospective analysis of 2D patient-specific IMRT verifications. <i>Medical Physics</i> , 2005, 32, 838-850.	3.0	34
149	Elastic image mapping for 4-D dose estimation in thoracic radiotherapy. <i>Radiation Protection Dosimetry</i> , 2005, 115, 497-502.	0.8	34
150	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.	2.7	34
151	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
152	Compact and Highly Sensitive NO ₂ Photoacoustic Sensor for Environmental Monitoring. <i>Molecules</i> , 2020, 25, 1201.	3.8	34
153	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, 191-198.	1.3	33
154	Effectiveness of Using Fewer Implanted Fiducial Markers for Prostate Target Alignment. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 74, 1283-1289.	0.8	33
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