Chenbin Liu

List of Publications by Year
in descending order

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36 papers	1,033 citations	516710 16 h-index	434195 31 g-index
41 all docs	41 docs citations	41 times ranked	1453 citing authors

#	Article	IF	Citations
1	Label free imaging and deep tracking of single biological nanoparticles in free solution by reflection enhanced dark field scattering microscopy. Sensors and Actuators B: Chemical, 2022, 355, 131317.	7.8	10
2	Predicting machine's performance record using the stacked long shortâ€term memory (LSTM) neural networks. Journal of Applied Clinical Medical Physics, 2022, 23, e13558.	1.9	16
3	Evaluation of Plan Robustness Using Hybrid Intensity-Modulated Radiotherapy (IMRT) and Volumetric Arc Modulation Radiotherapy (VMAT) for Left-Sided Breast Cancer. Bioengineering, 2022, 9, 131.	3.5	2
4	Noncontact Physiological Measurement Using a Camera: A Technical Review and Future Directions. ACS Sensors, 2021, 6, 321-334.	7.8	17
5	Impact of Multiple Beams on Plan Quality, Linear Energy Transfer Distribution, and Plan Robustness of Intensity Modulated Proton Therapy for Lung Cancer. ACS Sensors, 2021, 6, 408-417.	7.8	4
6	A Critical Review of LET-Based Intensity-Modulated Proton Therapy Plan Evaluation and Optimization for Head and Neck Cancer Management. International Journal of Particle Therapy, 2021, 8, 36-49.	1.8	27
7	Early Outcomes of Patients With Locally Advanced Non-small Cell Lung Cancer Treated With Intensity-Modulated Proton Therapy Versus Intensity-Modulated Radiation Therapy: The Mayo Clinic Experience. Advances in Radiation Oncology, 2020, 5, 450-458.	1.2	18
8	Acute Toxicities and Short-Term Patient Outcomes After Intensity-Modulated Proton Beam Radiation Therapy or Intensity-Modulated Photon Radiation Therapy for Esophageal Carcinoma: A Mayo Clinic Experience. Advances in Radiation Oncology, 2020, 5, 871-879.	1.2	16
9	Chest Computed Tomography and Clinical Follow-Up of Discharged Patients with COVID-19 in Wenzhou City, Zhejiang, China. Annals of the American Thoracic Society, 2020, 17, 1231-1237.	3.2	94
10	Differentiating novel coronavirus pneumonia from general pneumonia based on machine learning. BioMedical Engineering OnLine, 2020, 19, 66.	2.7	39
11	CT findings of patients infected with SARS-CoV-2. BMC Medical Imaging, 2020, 20, 70.	2.7	5
12	Robust Optimization for Intensity Modulated Proton Therapy to Redistribute High Linear Energy Transfer from Nearby Critical Organs to Tumors in Head and Neck Cancer. International Journal of Radiation Oncology Biology Physics, 2020, 107, 181-193.	0.8	43
13	A Paper Based Milli-Cantilever Sensor for Detecting Hydrocarbon Gases via Smartphone Camera. Analytical Chemistry, 2020, 92, 8480-8486.	6.5	12
14	Technical Note: Treatment planning system (TPS) approximations matter â€" comparing intensityâ€modulated proton therapy (IMPT) plan quality and robustness between a commercial and an inâ€house developed TPS for nonsmall cell lung cancer (NSCLC). Medical Physics, 2019, 46, 4755-4762.	3.0	19
15	Dosimetric comparison of distal esophageal carcinoma plans for patients treated with smallâ€spot intensityâ€modulated proton versus volumetricâ€modulated arc therapies. Journal of Applied Clinical Medical Physics, 2019, 20, 15-27.	1.9	40
16	The value of the computer-aided diagnosis system for thyroid lesions based on computed tomography images. Quantitative Imaging in Medicine and Surgery, 2019, 9, 642-653.	2.0	12
17	Synthetic CT Generation Based on T2 Weighted MRI of Nasopharyngeal Carcinoma (NPC) Using a Deep Convolutional Neural Network (DCNN). Frontiers in Oncology, 2019, 9, 1333.	2.8	46
18	A novel and individualized robust optimization method using normalized dose interval volume constraints (<scp>NDIVC</scp>) for intensityâ€modulated proton radiotherapy. Medical Physics, 2019, 46, 382-393.	3.0	16

#	Article	IF	Citations
19	Impact of Spot Size and Spacing on the Quality of Robustly Optimized Intensity Modulated Proton Therapy Plans for Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2018, 101, 479-489.	0.8	44
20	Chemical Sensing in Real Time with Plants Using a Webcam. Analytical Chemistry, 2018, 90, 13030-13035.	6.5	5
21	Smallâ€spot intensityâ€modulated proton therapy and volumetricâ€modulated arc therapies for patients with locally advanced nonâ€smallâ€cell lung cancer: A dosimetric comparative study. Journal of Applied Clinical Medical Physics, 2018, 19, 140-148.	1.9	32
22	Dosimetric analysis of distal esophageal adenocarcinoma patients treated by intensity-modulated proton therapy with small spot size.. Journal of Clinical Oncology, 2018, 36, 159-159.	1.6	0
23	Simultaneous Monitoring of Ballistocardiogram and Photoplethysmogram Using a Camera. IEEE Transactions on Biomedical Engineering, 2017, 64, 1003-1010.	4.2	59
24	Noncontact spirometry with a webcam. Journal of Biomedical Optics, 2017, 22, 057002.	2.6	16
25	Non-Contact Simultaneous Photoplethysmogram and Ballistocardiogram Video Recording towards Real-Time Blood Pressure and Abnormal Heart Rhythm Monitoring. , 2017, , .		8
26	Thyroid nodule recognition in computed tomography using first order statistics. BioMedical Engineering OnLine, 2017, 16, 67.	2.7	18
27	Thyroid nodule detection using attenuation value based on non-enhancement CT images. , 2017, , .		1
28	Particle Pollution Estimation Based on Image Analysis. PLoS ONE, 2016, 11, e0145955.	2.5	65
29	Motion robust remote photoplethysmography in CIELab color space. Journal of Biomedical Optics, 2016, 21, 117001.	2.6	33
30	Remote Quantification of Workout Energy Expenditure With a Cell Phone Camera. IEEE Sensors Journal, 2016, 16, 8263-8270.	4.7	4
31	Digitizing Gold Nanoparticle-Based Colorimetric Assay by Imaging and Counting Single Nanoparticles. Analytical Chemistry, 2016, 88, 2321-2326.	6.5	23
32	Skin Mechanical Properties and Hydration Measured With Mobile Phone Camera. IEEE Sensors Journal, 2016, 16, 924-930.	4.7	8
33	Noncontact Monitoring of Blood Oxygen Saturation Using Camera and Dual-Wavelength Imaging System. IEEE Transactions on Biomedical Engineering, 2016, 63, 1091-1098.	4.2	115
34	A novel computational ct image analysis method for classifying nodules from normal thyroid tissue. , 2015, , .		0
35	Noncontact Monitoring Breathing Pattern, Exhalation Flow Rate and Pulse Transit Time. IEEE Transactions on Biomedical Engineering, 2014, 61, 2760-2767.	4.2	153
36	Towards MIB-1 and p53 detection in glioma magnetic resonance image: a novel computational image analysis method. Physics in Medicine and Biology, 2012, 57, 8393-8404.	3.0	13