

Dan Ionascu

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,299
citations

361296

20
h-index

345118

36
g-index

39
all docs

39
docs citations

39
times ranked

1307
citing authors

#	ARTICLE	IF	CITATIONS
1	Internal-external correlation investigations of respiratory induced motion of lung tumors. <i>Medical Physics</i> , 2007, 34, 3893-3903.	1.6	177
2	Evaluation of the combined effects of target size, respiratory motion and background activity on 3D and 4D PET/CT images. <i>Physics in Medicine and Biology</i> , 2008, 53, 3661-3679.	1.6	103
3	Temperature-Dependent Studies of NO Recombination to Heme and Heme Proteins. <i>Journal of the American Chemical Society</i> , 2005, 127, 16921-16934.	6.6	84
4	5850-5857.	1.6	77
5	Investigations of Heme Protein Absorption Line Shapes, Vibrational Relaxation, and Resonance Raman Scattering on Ultrafast Time Scales. <i>Journal of Physical Chemistry A</i> , 2003, 107, 8156-8165.	1.1	74
6	Investigations of Anharmonic Low-Frequency Oscillations in Heme Proteins. <i>Journal of Physical Chemistry A</i> , 2002, 106, 3540-3552.	1.1	71
7	Evaluation of the interplay effect when using RapidArc to treat targets moving in the craniocaudal or right-left direction. <i>Medical Physics</i> , 2010, 37, 4-11.	1.6	70
8	Clinical Feasibility of Using an EPID in cine Mode for Image-Guided Verification of Stereotactic Body Radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 69, 258-266.	0.4	67
9	Management of the interplay effect when using dynamic MLC sequences to treat moving targets. <i>Medical Physics</i> , 2008, 35, 1926-1931.	1.6	54
10	Two-color pump-probe laser spectroscopy instrument with picosecond time-resolved electronic delay and extended scan range. <i>Review of Scientific Instruments</i> , 2005, 76, 114301.	0.6	45
11	CO Rebinding to Protoheme: Investigations of the Proximal and Distal Contributions to the Geminate Rebinding Barrier. <i>Journal of the American Chemical Society</i> , 2005, 127, 5854-5861.	6.6	42
12	Automatic marker detection and 3D position reconstruction using cine EPID images for SBRT verification. <i>Medical Physics</i> , 2009, 36, 4536-4546.	1.6	40
13	Coherence Spectroscopy Investigations of the Low-Frequency Vibrations of Heme: Effects of Protein-Specific Perturbations. <i>Journal of the American Chemical Society</i> , 2008, 130, 5231-5244.	6.6	37
14	Wavelength selective modulation in femtosecond pump-probe spectroscopy and its application to heme proteins. <i>Journal of Chemical Physics</i> , 2001, 114, 10884-10898.	1.2	36
15	Temperature-dependent heme kinetics with nonexponential binding and barrier relaxation in the absence of protein conformational substates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14682-14687.	3.3	35
16	Rapid timescale processes and the role of electronic surface coupling in the photolysis of diatomic ligands from heme proteins. <i>Faraday Discussions</i> , 2004, 127, 123.	1.6	34
17	Toxicity After Central versus Peripheral Lung Stereotactic Body Radiation Therapy: A Propensity Score Matched-Pair Analysis. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 91, 124-132.	0.4	32
18	Low Frequency Spectral Density of Ferrous Heme: Perturbations Induced by Axial Ligation and Protein Insertion. <i>Biophysical Journal</i> , 2007, 93, 4404-4413.	0.2	23

#	ARTICLE	IF	CITATIONS
19	A novel method for estimating SBRT delivered dose with beam's-eye-view images. <i>Medical Physics</i> , 2008, 35, 3225-3231.	1.6	22
20	Motion artifacts occurring at the lung/diaphragm interface using 4D CT attenuation correction of 4D PET scans. <i>Journal of Applied Clinical Medical Physics</i> , 2011, 12, 261-274.	0.8	22
21	Femtosecond coherence spectroscopy using spectrally selective differential photodetection. <i>Chemical Physics Letters</i> , 2001, 337, 107-116.	1.2	20
22	Coupling surface cameras with on-board fluoroscopy: A feasibility study. <i>Medical Physics</i> , 2011, 38, 2937-2947.	1.6	18
23	Melanoma Cell Intrinsic GABAA Receptor Enhancement Potentiates Radiation and Immune Checkpoint Inhibitor Response by Promoting Direct and T Cell-Mediated Antitumor Activity. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 109, 1040-1053.	0.4	18
24	Low-Frequency Dynamics of <i>Caldariomyces fumago</i> Chloroperoxidase Probed by Femtosecond Coherence Spectroscopy. <i>Biochemistry</i> , 2008, 47, 5156-5167.	1.2	17
25	Comparison of IGRT Registration Strategies for Optimal Coverage of Primary Lung Tumors and Involved Nodes Based on Multiple Four-Dimensional CT Scans Obtained Throughout the Radiotherapy Course. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 82, 1541-1548.	0.4	13
26	The evaluation of a hybrid biomechanical deformable registration method on a multistage physical phantom with reproducible deformation. <i>Radiation Oncology</i> , 2018, 13, 240.	1.2	12
27	Reconstruction of a high-quality volumetric image and a respiratory motion model from patient CBCT projections. <i>Medical Physics</i> , 2019, 46, 3627-3639.	1.6	10
28	An optimization algorithm for 3D real-time lung tumor tracking during arc therapy using kV projection images. <i>Medical Physics</i> , 2013, 40, 101710.	1.6	8
29	Optical scanning instrument for ultrafast pump-probe spectroscopy of biomolecules at cryogenic temperatures. <i>Review of Scientific Instruments</i> , 2006, 77, 064303.	0.6	7
30	Evaluation of image guided motion management methods in lung cancer radiotherapy. <i>Medical Physics</i> , 2014, 41, 031911.	1.6	7
31	Intensity-modulated radiation therapy or volumetric-modulated arc therapy to reduce alopecia, xerostomia, and otitis after whole brain radiation therapy for brain metastases: a planning analysis. <i>Journal of Radiation Oncology</i> , 2013, 2, 177-183.	0.7	5
32	Differential transcriptome response to proton versus X-ray radiation reveals novel candidate targets for combinatorial PT therapy in lymphoma. <i>Radiotherapy and Oncology</i> , 2021, 155, 293-303.	0.3	5
33	Quantifying day-to-day variations in 4DCBCT-based PCA motion models. <i>Biomedical Physics and Engineering Express</i> , 2020, 6, 035020.	0.6	4
34	Fluoroscopic 3D Image Generation from Patient-Specific PCA Motion Models Derived from 4D-CBCT Patient Datasets: A Feasibility Study. <i>Journal of Imaging</i> , 2022, 8, 17.	1.7	4
35	Low Frequency Modes in Heme Proteins. <i>Bulletin of the Chemical Society of Japan</i> , 2002, 75, 1093-1101.	2.0	3
36	Technical Note: Algebraic iterative image reconstruction using a cylindrical image grid for tetrahedron beam computed tomography. <i>Medical Physics</i> , 2013, 40, 081909.	1.6	1

#	ARTICLE	IF	CITATIONS
37	Inter-fraction variations in motion modeling using patient 4D-cone beam CT images. , 2018, , .		1
38	Relationship between volume of bone irradiated during pelvic radiation therapy (RT) for rectal cancer and complete blood counts (CBC).. Journal of Clinical Oncology, 2013, 31, 551-551.	0.8	0