Spiridon V Spirou

List of Publications by Year
in descending order

25 papers	3,047 citations	361045 20 h-index	610482 24 g-index
25 all docs	25 docs citations	25 times ranked	1745 citing authors

#	Article	IF	Citations
1	Conformal radiation treatment of prostate cancer using inversely-planned intensity-modulated photon beams produced with dynamic multileaf collimation. International Journal of Radiation Oncology Biology Physics, 1996, 35, 721-730.	0.4	336
2	Generation of arbitrary intensity profiles by dynamic jaws or multileaf collimators. Medical Physics, 1994, 21, 1031-1041.	1.6	320
3	A gradient inverse planning algorithm with dose-volume constraints. Medical Physics, 1998, 25, 321-333.	1.6	320
4	Treatment planning and delivery of intensity-modulated radiation therapy for primary nasopharynx cancer. International Journal of Radiation Oncology Biology Physics, 2001, 49, 623-632.	0.4	271
5	Planning, delivery, and quality assurance of intensity-modulated radiotherapy using dynamic multileaf collimator: A strategy for large-scale implementation for the treatment of carcinoma of the prostate. International Journal of Radiation Oncology Biology Physics, 1997, 39, 863-873.	0.4	270
6	Intensity-modulated tangential beam irradiation of the intact breast. International Journal of Radiation Oncology Biology Physics, 1999, 44, 1155-1164.	0.4	252
7	Dosimetric verification of intensity-modulated fields. Medical Physics, 1996, 23, 317-327.	1.6	165
8	Dose calculation for photon beams with intensity modulation generated by dynamic jaw or multileaf collimations. Medical Physics, 1994, 21, 1237-1244.	1.6	148
9	Testing of dynamic multileaf collimation. Medical Physics, 1996, 23, 635-641.	1.6	148
10	Magnetic Hyperthermia and Radiation Therapy: Radiobiological Principles and Current Practice â€. Nanomaterials, 2018, 8, 401.	1.9	114
11	IMRT of large fields: whole-abdomen irradiation. International Journal of Radiation Oncology Biology Physics, 2002, 54, 278-289.	0.4	103
12	CT image-guided intensity-modulated therapy for paraspinal tumors using stereotactic immobilization. International Journal of Radiation Oncology Biology Physics, 2003, 55, 583-593.	0.4	101
13	Delivery of intensity-modulated radiation therapy with a conventional multileaf collimator: Comparison of dynamic and segmental methods. Medical Physics, 2001, 28, 2441-2449.	1.6	92
14	Intensity-Modulated Radiotherapy. Cancer Journal (Sudbury, Mass), 2002, 8, 164-176.	1.0	91
15	Smoothing intensity-modulated beam profiles to improve the efficiency of delivery. Medical Physics, 2001, 28, 2105-2112.	1.6	67
16	Recommendations for In Vitro and In Vivo Testing of Magnetic Nanoparticle Hyperthermia Combined with Radiation Therapy. Nanomaterials, 2018, 8, 306.	1.9	50
17	Inverse planning algorithms for external beam radiation therapy. Medical Dosimetry, 2001, 26, 189-197.	0.4	49
18	Generation of arbitrary intensity profiles by combining the scanning beam with dynamic multileaf collimation. Medical Physics, 1996, 23, 1-8.	1.6	41

#	Article	IF	Citations
19	Optimization of conformal thoracic radiotherapy using cone-beam CT imaging for treatment verification. International Journal of Radiation Oncology Biology Physics, 2003, 55, 757-767.	0.4	41
20	A new method of incorporating systematic uncertainties in intensity-modulated radiotherapy optimization. Medical Physics, 2005, 32, 2567-2579.	1.6	27
21	29 Mixed modality intensity-modulated radiation therapy treatment planning for intracranial lesions. International Journal of Radiation Oncology Biology Physics, 1997, 39, 149.	0.4	18
22	First performance tests of a digital photon counter (DPC) array coupled to a CsI(Tl) crystal matrix for potential use in SPECT. Physics in Medicine and Biology, 2014, 59, 2415-2430.	1.6	15
23	Does the setup of Monte Carlo simulations influence the calculated properties and effect of gold nanoparticles in radiation therapy?. Physica Medica, 2015, 31, 817-821.	0.4	6
24	Investigation of attenuation correction in SPECT using textural features, Monte Carlo simulations, and computational anthropomorphic models. Nuclear Medicine Communications, 2015, 36, 952-961.	0.5	2
25	Shielding of Sensitive Electronic Devices in Magnetic Nanoparticle Hyperthermia Using Arrays of Coils. Journal of Physics: Conference Series, 2015, 637, 012042.	0.3	0