

Philip Vial

List of Publications by Year in descending order

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49
papers

734
citations

777949

13
h-index

651938

25
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49
all docs

49
docs citations

49
times ranked

732
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of the ability of three commercially available dosimeters to detect systematic delivery errors in Step-and-Shoot IMRT plans. Reports of Practical Oncology and Radiotherapy, 2021, 26, 793-803.	0.3	4
2	Lung organ at risk volumes: A survey of practice and the need for a consistent definition in the 4DCT era. Journal of Medical Imaging and Radiation Oncology, 2020, 64, 120-126.	0.9	1
3	Quality management in radiation therapy: A 15 year review of incident reporting in two integrated cancer centres. Technical Innovations and Patient Support in Radiation Oncology, 2020, 14, 15-20.	0.6	8
4	Cautiously optimistic: A survey of radiation oncology professionals'™ perceptions of automation in radiotherapy planning. Technical Innovations and Patient Support in Radiation Oncology, 2020, 16, 58-64.	0.6	11
5	Feasibility of a dual detector system to perform transit dosimetry and MV imaging in-vivo. Journal of Instrumentation, 2019, 14, P01019-P01019.	0.5	4
6	Adapting automated treatment planning configurations across international centres for prostate radiotherapy. Physics and Imaging in Radiation Oncology, 2019, 10, 7-13.	1.2	12
7	EPID sensitivity to delivery errors for pre-treatment verification of lung SBRT VMAT plans. Physica Medica, 2019, 59, 37-46.	0.4	9
8	Remote dosimetric auditing of clinical trials: The need for vendor specific models to convert images to dose. Journal of Applied Clinical Medical Physics, 2019, 20, 175-183.	0.8	0
9	A high DQE water equivalent EPID employing an array of plastic scintillating fibers for simultaneous imaging and dosimetry in radiotherapy. Medical Physics, 2018, 45, 2154-2168.	1.6	5
10	A simple model for transit dosimetry based on a water equivalent <sc>EPID</sc>. Medical Physics, 2018, 45, 1266-1275.	1.6	10
11	A remote EPID-based dosimetric TPS-planned audit of centers for clinical trials: outcomes and analysis of contributing factors. Radiation Oncology, 2018, 13, 178.	1.2	6
12	Comparison of multi-institutional pre-treatment verification for VMAT of nasopharynx with delivery errors. Physica Medica, 2018, 53, 25-31.	0.4	6
13	Clinical significance of treatment delivery errors for helical TomoTherapy nasopharyngeal plans – A dosimetric simulation study. Physica Medica, 2017, 33, 159-169.	0.4	8
14	Virtual EPID standard phantom audit (VESPA) for remote IMRT and VMAT credentialing. Physics in Medicine and Biology, 2017, 62, 4293-4299.	1.6	17
15	Sensitivity evaluation of two commercial dosimeters in detecting Helical TomoTherapy treatment delivery errors. Physica Medica, 2017, 37, 68-74.	0.4	6
16	Clinical implementation of an exit detector based dose reconstruction tool for helical tomotherapy delivery quality assurance. Medical Physics, 2017, 44, 5457-5466.	1.6	7
17	Dose discrepancy between planning system estimation and measurement in spine stereotactic body radiation therapy: A case report. Journal of Medical Imaging and Radiation Oncology, 2017, 61, 695-698.	0.9	2
18	Remote dosimetric auditing for intensity modulated radiotherapy: A pilot study. Physics and Imaging in Radiation Oncology, 2017, 4, 26-31.	1.2	11

#	ARTICLE	IF	CITATIONS
19	A survey of modulated radiotherapy use in Australia & New Zealand in 2015. Australasian Physical and Engineering Sciences in Medicine, 2017, 40, 811-822.	1.4	13
20	A novel water-equivalent electronic portal imaging device for radiotherapy with improved detective quantum efficiency: Proof of concept. , 2017, , .		0
21	Light output enhancement for a plastic scintillator using nanofibers. , 2017, , .		0
22	Technical Note: Experimental results from a prototype high-field inline MRI linac. Medical Physics, 2016, 43, 5188-5194.	1.6	43
23	In silico investigation of factors affecting the MV imaging performance of a novel water-equivalent EPID. Physica Medica, 2016, 32, 1819-1826.	0.4	7
24	Feasibility study of a dual detector configuration concept for simultaneous megavoltage imaging and dose verification in radiotherapy. Medical Physics, 2015, 42, 1753-1764.	1.6	7
25	Is a quasi-3D dosimeter better than a 2D dosimeter for Tomotherapy delivery quality assurance?. Journal of Physics: Conference Series, 2015, 573, 012077.	0.3	2
26	Superior target volume and organ stability with the use of endorectal balloons in post-prostatectomy radiotherapy. Journal of Medical Imaging and Radiation Oncology, 2015, 59, 507-513.	0.9	5
27	Evaluation of 3D Gamma index calculation implemented in two commercial dosimetry systems. Journal of Physics: Conference Series, 2015, 573, 012054.	0.3	0
28	Streamlining EPID-based IMRT quality assurance: auto-analysis and auto-report generation. Journal of Physics: Conference Series, 2014, 489, 012084.	0.3	2
29	Comparison of digitally reconstructed radiographs generated from axial and helical CT scanning modes: a phantom study. Australasian Physical and Engineering Sciences in Medicine, 2014, 37, 285-290.	1.4	6
30	Dose calibration of EPIDs for segmented IMRT dosimetry. Journal of Applied Clinical Medical Physics, 2014, 15, 103-118.	0.8	10
31	A decision support tool to optimize IMRT QA workflow in a multi-vendor equipment environment. Journal of Physics: Conference Series, 2014, 489, 012069.	0.3	0
32	Evaluation of the ability of a 2D ionisation chamber array and an EPID to detect systematic delivery errors in IMRT plans. Journal of Physics: Conference Series, 2014, 489, 012071.	0.3	4
33	Endorectal balloons in the post prostatectomy setting: Do gains in stability lead to more predictable dosimetry?. Radiotherapy and Oncology, 2013, 109, 493-497.	0.3	12
34	How important is dosimetrist experience for intensity modulated radiation therapy? A comparative analysis of a head and neck case. Practical Radiation Oncology, 2013, 3, e99-e106.	1.1	65
35	Evaluating radiation damage to scintillating plastic fibers with Monte Carlo simulations. Proceedings of SPIE, 2013, , .	0.8	0
36	Characterization of a novel EPID designed for simultaneous imaging and dose verification in radiotherapy. Medical Physics, 2013, 40, 091902.	1.6	23

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37	Characterization of optical transport effects on EPID dosimetry using Geant4. Medical Physics, 2013, 40, 041708.	1.6	22
38	Transit dosimetry in IMRT with an a-Si EPID in direct detection configuration. Physics in Medicine and Biology, 2012, 57, N295-N306.	1.6	12
39	Direct dose to water dosimetry for pretreatment IMRT verification using a modified EPID. Medical Physics, 2011, 38, 6257-6264.	1.6	17
40	2-D radiation therapy dosimetry using EPIDs: Dose response variation between 3Åsiemens electronic portal imaging devices (EPIDs). Radiation Measurements, 2011, 46, 1916-1919.	0.7	4
41	Epid Dosimetry. , 2011, , .		9
42	In vivo dosimetry for IMRT. AIP Conference Proceedings, 2011, , .	0.3	2
43	Direct-detection EPID dosimetry: investigation of a potential clinical configuration for IMRT verification. Physics in Medicine and Biology, 2009, 54, 7151-7169.	1.6	18
44	EPID dosimetry: Effect of different layers of materials on absorbed dose response. Medical Physics, 2009, 36, 5665-5674.	1.6	22
45	Radiological properties of the PRESAGE and PAGAT polymer dosimeters. Applied Radiation and Isotopes, 2008, 66, 1970-1974.	0.7	105
46	Initial evaluation of a commercial EPID modified to a novel direct detection configuration for radiotherapy dosimetry. Medical Physics, 2008, 35, 4362-4374.	1.6	44
47	The impact of MLC transmitted radiation on EPID dosimetry for dynamic MLC beams. Medical Physics, 2008, 35, 1267-1277.	1.6	49
48	Experimental investigation of the response of an amorphous silicon EPID to intensity modulated radiotherapy beams. Medical Physics, 2007, 34, 4389-4398.	1.6	54
49	An experimental investigation into the radiation field offset of a dynamic multileaf collimator. Physics in Medicine and Biology, 2006, 51, 5517-5538.	1.6	50