Christine B Peterson

List of Publications by Year
in descending order

87 papers	6,573 citations	201674 27 h-index	85541 71 g-index
91 all docs	91 docs citations	91 times ranked	16295 citing authors

#	Article	IF	Citations
1	Monte Carlo evaluation of target dose coverage in lung stereotactic body radiation therapy with flattening filter-free beams. Journal of Radiotherapy in Practice, 2022, 21, 81-87.	0.5	1
2	Latent Network Estimation and Variable Selection for Compositional Data Via Variational EM. Journal of Computational and Graphical Statistics, 2022, 31, 163-175.	1.7	9
3	Photon beam modeling variations predict errors in IMRT dosimetry audits. Radiotherapy and Oncology, 2022, 166, 8-14.	0.6	6
4	Swallowing After Primary TORS and Unilateral or Bilateral Radiation for Lowâ€•to Intermediateâ€•Risk Tonsil Cancer. Otolaryngology - Head and Neck Surgery, 2022, 167, 484-493.	1.9	2
5	An Accessible Communication System for Population-Based Genetic Testing: Development and Usability Study. JMIR Formative Research, 2022, 6, e34055.	1.4	2
6	Performance determinants of unsupervised clustering methods for microbiome data. Microbiome, 2022, 10, 25.	11.1	15
7	Oral and Stool Microbiome Coalescence and Its Association With Antibiotic Exposure in Acute Leukemia Patients. Frontiers in Cellular and Infection Microbiology, 2022, 12, 848580.	3.9	2
8	Flow cytometry can reliably capture gut microbial composition in healthy adults as well as dysbiosis dynamics in patients with aggressive B-cell non-Hodgkin lymphoma. Gut Microbes, 2022, 14, .	9.8	3
9	Extracellular vesicle PD-L1 dynamics predict durable response to immune-checkpoint inhibitors and survival in patients withÂnon-small cell lung cancer. Journal of Experimental and Clinical Cancer Research, 2022, 41, .	8.6	39
10	Bayesian compositional regression with structured priors for microbiome feature selection. Biometrics, 2021, 77, 824-838.	1.4	7
11	Using FFF beams to improve the therapeutic ratio of lung SBRT. Journal of Radiotherapy in Practice, 2021, 20, 419-425.	0.5	5
12	Comparison of ejection fraction calculation between CT and SPECT at high heart rate: A dynamic cardiac phantom study. Journal of Nuclear Cardiology, 2021, 28, 311-316.	2.1	4
13	Automatic Segmentation Using Deep Learning to Enable Online Dose Optimization During Adaptive Radiation Therapy of Cervical Cancer. International Journal of Radiation Oncology Biology Physics, 2021, 109, 1096-1110.	0.8	50
14	ProgPerm: Progressive permutation for a dynamic representation of the robustness of microbiome discoveries. BMC Bioinformatics, 2021, 22, 126.	2.6	2
15	Associations between the gut microbiome and fatigue in cancer patients. Scientific Reports, 2021, 11, 5847.	3.3	24
16	Radiomics analysis for predicting pembrolizumab response in patients with advanced rare cancers. , 2021, 9, e001752.		34
17	Clinical Acceptability of Automated Radiation Treatment Planning for Head and Neck Cancer Using the Radiation Planning Assistant. Practical Radiation Oncology, 2021, 11, 177-184.	2.1	22
18	A Blood-based Polyamine Signature Associated With MEN1 Duodenopancreatic Neuroendocrine Tumor Progression. Journal of Clinical Endocrinology and Metabolism, 2021, 106, e4969-e4980.	3.6	9

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19	Geometric and dosimetric accuracy of deformable image registration between averageâ€intensity images for 4DCTâ€based adaptive radiotherapy for nonâ€small cell lung cancer. Journal of Applied Clinical Medical Physics, 2021, 22, 156-167.	1.9	7
20	Uncertainty in tissue equivalent proportional counter assessments of microdosimetry and RBE estimates in carbon radiotherapy. Physics in Medicine and Biology, 2021, 66, 155018.	3.0	3
21	Hypotheses on a tree: new error rates and testing strategies. Biometrika, 2021, 108, 575-590.	2.4	10
22	ONC201 and an MEK Inhibitor Trametinib Synergistically Inhibit the Growth of Triple-Negative Breast Cancer Cells. Biomedicines, 2021, 9, 1410.	3.2	6
23	Replication stress response defects are associated with response to immune checkpoint blockade in nonhypermutated cancers. Science Translational Medicine, 2021, 13, eabe6201.	12.4	19
24	Dietary fiber and probiotics influence the gut microbiome and melanoma immunotherapy response. Science, 2021, 374, 1632-1640.	12.6	369
25	Bayesian inference of networks across multiple sample groups and data types. Biostatistics, 2020, 21, 561-576.	1.5	10
26	Disruption of TP63-miR-27a* Feedback Loop by Mutant TP53 in Head and Neck Cancer. Journal of the National Cancer Institute, 2020, 112, 266-277.	6.3	5
27	NExUS: Bayesian simultaneous network estimation across unequal sample sizes. Bioinformatics, 2020, 36, 798-804.	4.1	2
28	Association Between Plasma Diacetylspermine and Tumor Spermine Synthase With Outcome in Triple-Negative Breast Cancer. Journal of the National Cancer Institute, 2020, 112, 607-616.	6.3	40
29	Gut Microbiome Signatures Are Predictive of Infectious Risk Following Induction Therapy for Acute Myeloid Leukemia. Clinical Infectious Diseases, 2020, 71, 63-71.	5.8	61
30	A chiralityâ€dependent action of vitamin C in suppressing Kirsten rat sarcoma mutant tumor growth by the oxidative combination: Rationale for cancer therapeutics. International Journal of Cancer, 2020, 146, 2822-2828.	5.1	9
31	Reference dataset of usersâ€™ photon beam modeling parameters for the Eclipse, Pinnacle, and RayStation treatment planning systems. Medical Physics, 2020, 47, 282-288.	3.0	33
32	Characterization of continuous bed motion effects on patient breathing and respiratory motion correction in PET/CT imaging. Journal of Applied Clinical Medical Physics, 2020, 21, 158-165.	1.9	5
33	RapidPlan development of VMAT plans for cervical cancer patients in low- and middle-income countries. Medical Dosimetry, 2020, 45, 172-178.	0.9	16
34	Vestigial-like 1 is a shared targetable cancer-placenta antigen expressed by pancreatic and basal-like breast cancers. Nature Communications, 2020, 11, 5332.	12.8	15
35	Sensitivity of IROC phantom performance to radiotherapy treatment planning system beam modeling parameters based on communityâ€driven data. Medical Physics, 2020, 47, 5250-5259.	3.0	14
36	Development of a stereoscopic CT metal artifact management algorithm using gantry angle tilts for head and neck patients. Journal of Applied Clinical Medical Physics, 2020, 21, 120-130.	1.9	9

#	ARTICLE	IF	CITATIONS
37	Differences in the Patterns of Failure Between IROC Lung and Spine Phantom Irradiations. Practical Radiation Oncology, 2020, 10, 372-381.	2.1	13
38	Oral microbiome and onset of oral mucositis in patients with squamous cell carcinoma of the head and neck. Cancer, 2020, 126, 5124-5136.	4.1	30
39	Caveolin-1-mediated sphingolipid oncometabolism underlies a metabolic vulnerability of prostate cancer. Nature Communications, 2020, 11, 4279.	12.8	52
40	Evaluation of a multiview architecture for automatic vertebral labeling of palliative radiotherapy simulation CT images. Medical Physics, 2020, 47, 5592-5608.	3.0	12
41	Evaluating the psychometric properties of the Immunotherapy module of the MD Anderson Symptom Inventory. , 2020, 8, e000931.		11
42	PBRM1 loss defines a nonimmunogenic tumor phenotype associated with checkpoint inhibitor resistance in renal carcinoma. Nature Communications, 2020, 11, 2135.	12.8	114
43	A simple model for calculating relative biological effectiveness of X-rays and gamma radiation in cell survival. British Journal of Radiology, 2020, 93, 20190949.	2.2	3
44	Dose calculation errors as a component of failing IROC lung and spine phantom irradiations. Medical Physics, 2020, 47, 4502-4508.	3.0	8
45	Modeling Complex Deformations of the Sigmoid Colon Between External Beam Radiation Therapy and Brachytherapy Images of Cervical Cancer. International Journal of Radiation Oncology Biology Physics, 2020, 106, 1084-1094.	0.8	8
46	Bayesian modeling of multiple structural connectivity networks during the progression of Alzheimer's disease. Biometrics, 2020, 76, 1120-1132.	1.4	9
47	aPCoA: covariate adjusted principal coordinates analysis. Bioinformatics, 2020, 36, 4099-4101.	4.1	18
48	Observational Cohort Study of Oral Mycobiome and Interkingdom Interactions over the Course of Induction Therapy for Leukemia. MSphere, 2020, 5, .	2.9	18
49	Compositional zero-inflated network estimation for microbiome data. BMC Bioinformatics, 2020, 21, 581.	2.6	11
50	Biomechanical modeling of radiation dose-induced volumetric changes of the parotid glands for deformable image registration. Physics in Medicine and Biology, 2020, 65, 165017.	3.0	2
51	Bayesian Inference of Hub Nodes Across Multiple Networks. Biometrics, 2019, 75, 172-182.	1.4	2
52	Tumor Microbiome Diversity and Composition Influence Pancreatic Cancer Outcomes. Cell, 2019, 178, 795-806.e12.	28.9	830
53	MAGENTA (Making Genetic testing accessible): a prospective randomized controlled trial comparing online genetic education and telephone genetic counseling for hereditary cancer genetic testing. BMC Cancer, 2019, 19, 648.	2.6	31
54	Biomechanical modeling of neck flexion for deformable alignment of the salivary glands in head and neck cancer images. Physics in Medicine and Biology, 2019, 64, 175018.	3.0	0

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55	Automatic detection of contouring errors using convolutional neural networks. Medical Physics, 2019, 46, 5086-5097.	3.0	72
56	Systematic microdosimetric data for protons of therapeutic energies calculated with Geant4-DNA. Physics in Medicine and Biology, 2019, 64, 215018.	3.0	8
57	Independent recalculation outperforms traditional measurement‐based IMRT QA methods in detecting unacceptable plans. Medical Physics, 2019, 46, 3700-3708.	3.0	49
58	Fecal Microbiome, Metabolites, and Stem Cell Transplant Outcomes: A Single-Center Pilot Study. Open Forum Infectious Diseases, 2019, 6, ofz173.	0.9	32
59	Minimal residual disease undetectable by next-generation sequencing predicts improved outcome in CLL after chemoimmunotherapy. Blood, 2019, 134, 1951-1959.	1.4	45
60	Efficacy and predictors of response of lenalidomide and rituximab in patients with treatment-naive and relapsed CLL. Blood Advances, 2019, 3, 1533-1539.	5.2	9
61	Hierarchical Normalized Completely Random Measures for Robust Graphical Modeling. Bayesian Analysis, 2019, 14, 1271-1301.	3.0	10
62	Radiation Planning Assistant - A Streamlined, Fully Automated Radiotherapy Treatment Planning System. Journal of Visualized Experiments, 2018, , .	0.3	35
63	A Bayesian Approach for Learning Gene Networks Underlying Disease Severity in COPD. Statistics in Biosciences, 2018, 10, 59-85.	1.2	9
64	Retrospective Validation and Clinical Implementation of Automated Contouring of Organs at Risk in the Head and Neck: A Step Toward Automated Radiation Treatment Planning for Low- and Middle-Income Countries. Journal of Global Oncology, 2018, 4, 1-11.	0.5	34
65	Radiation-induced lung toxicity in mice irradiated in a strong magnetic field. PLoS ONE, 2018, 13, e0205803.	2.5	3
66	A snapshot of medical physics practice patterns. Journal of Applied Clinical Medical Physics, 2018, 19, 306-315.	1.9	22
67	Lung tumor segmentation methods: Impact on the uncertainty of radiomics features for non-small cell lung cancer. PLoS ONE, 2018, 13, e0205003.	2.5	63
68	Safety and preliminary efficacy of orally administered lyophilized fecal microbiota product compared with frozen product given by enema for recurrent Clostridium difficile infection: A randomized clinical trial. PLoS ONE, 2018, 13, e0205064.	2.5	77
69	Radiotherapy of lung cancers: FFF beams improve dose coverage at tumor periphery compromised by electronic disequilibrium. Physics in Medicine and Biology, 2018, 63, 195007.	3.0	11
70	Remote beam output audits: A global assessment of results out of tolerance. Physics and Imaging in Radiation Oncology, 2018, 7, 39-44.	2.9	19
71	Serial minimal residual disease (MRD) monitoring during first-line FCR treatment for CLL may direct individualized therapeutic strategies. Leukemia, 2018, 32, 2388-2398.	7.2	34
72	Genetic variation and gene expression across multiple tissues and developmental stages in a nonhuman primate. Nature Genetics, 2017, 49, 1714-1721.	21.4	57

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73	Genetic effects on gene expression across human tissues. Nature, 2017, 550, 204-213.	27.8	3,500
74	Controlling the Rate of GWAS False Discoveries. Genetics, 2017, 205, 61-75.	2.9	93
75	Characterization of Expression Quantitative Trait Loci in Pedigrees from Colombia and Costa Rica Ascertained for Bipolar Disorder. PLoS Genetics, 2016, 12, e1006046.	3.5	4
76	Joint Bayesian variable and graph selection for regression models with network‐structured predictors. Statistics in Medicine, 2016, 35, 1017-1031.	1.6	32
77	Many Phenotypes Without Many False Discoveries: Error Controlling Strategies for Multitrait Association Studies. Genetic Epidemiology, 2016, 40, 45-56.	1.3	62
78	Bayesian Graphical Network Analyses Reveal Complex Biological Interactions Specific to Alzheimer's Disease. Journal of Alzheimer's Disease, 2015, 44, 917-925.	2.6	13
79	Bayesian Inference of Multiple Gaussian Graphical Models. Journal of the American Statistical Association, 2015, 110, 159-174.	3.1	124
80	P4-039: BAYESIAN GRAPHICAL NETWORK ANALYSES REVEALS COMPLEX BIOLOGICAL INTERACTIONS SPECIFIC TO ALZHEIMER'S DISEASE. , 2014, 10, P796-P797.		0
81	Characterization of biological pathways associated with a 1.37 Mbp genomic region protective of hypertension in Dahl S rats. Physiological Genomics, 2014, 46, 398-410.	2.3	19
82	Regularized partial least squares with an application to NMR spectroscopy. Statistical Analysis and Data Mining, 2013, 6, 302-314.	2.8	39
83	Comment on Article by Scutari. Bayesian Analysis, 2013, 8, .	3.0	0
84	Investigating Multiple Candidate Genes and Nutrients in the Folate Metabolism Pathway to Detect Genetic and Nutritional Risk Factors for Lung Cancer. PLoS ONE, 2013, 8, e53475.	2.5	29
85	Inferring metabolic networks using the Bayesian adaptive graphical lasso with informative priors. Statistics and Its Interface, 2013, 6, 547-558.	0.3	23
86	Bayesian Model Averaging for Genetic Association Studies. , 0, , 208-223.		1
87	#GeneticTesting: Using Social Media to Facilitate Communication about testing to Women (Preprint). JMIR Formative Research, 0, , .	1.4	3