Jung Hun Oh

List of Publications by Year
in descending order

115 papers	2,863 citations	159358 30 h-index	214527 47 g-index
122 all docs	122 docs citations	122 times ranked	4298 citing authors

#	Article	IF	Citations
1	Outcomes and Toxicity for Hypofractionated and Single-Fraction Image-Guided Stereotactic Radiosurgery for Sarcomas Metastasizing to the Spine. International Journal of Radiation Oncology Biology Physics, 2014, 88, 1085-1091.	0.4	131
2	Impact of Dose to the Bladder Trigone on Long-Term Urinary Function After High-Dose Intensity Modulated Radiation Therapy for Localized Prostate Cancer. International Journal of Radiation Oncology Biology Physics, 2014, 88, 339-344.	0.4	122
3	Breast cancer subtype intertumor heterogeneity: MRIâ€based features predict results of a genomic assay. Journal of Magnetic Resonance Imaging, 2015, 42, 1398-1406.	1.9	119
4	Breast cancer molecular subtype classifier that incorporates MRI features. Journal of Magnetic Resonance Imaging, 2016, 44, 122-129.	1.9	114
5	Technical Note: Extension of CERR for computational radiomics: A comprehensive MATLAB platform for reproducible radiomics research. Medical Physics, 2018, 45, 3713-3720.	1.6	114
6	Radiomics analysis of pulmonary nodules in lowâ€dose <scp>CT</scp> for early detection of lung cancer. Medical Physics, 2018, 45, 1537-1549.	1.6	104
7	Improvement in toxicity in high risk prostate cancer patients treated with image-guided intensity-modulated radiotherapy compared to 3D conformal radiotherapy without daily image guidance. Radiation Oncology, 2014, 9, 44.	1.2	93
8	Machine Learning on a Genome-wide Association Study to Predict Late Genitourinary Toxicity After Prostate Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2018, 101, 128-135.	0.4	73
9	Application of Targeted Quantitative Proteomics Analysis in Human Cerebrospinal Fluid Using a Liquid Chromatography Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Tandem Mass Spectrometer (LC MALDI TOF/TOF) Platform. Journal of Proteome Research, 2008, 7, 720-730.	1.8	67
10	Machine learning and modeling: Data, validation, communication challenges. Medical Physics, 2018, 45, e834-e840.	1.6	67
11	Predicting hypoxia status using a combination of contrast-enhanced computed tomography and [18F]-Fluorodeoxyglucose positron emission tomography radiomics features. Radiotherapy and Oncology, 2018, 127, 36-42.	0.3	55
12	A Bayesian network approach for modeling local failure in lung cancer. Physics in Medicine and Biology, 2011, 56, 1635-1651.	1.6	54
13	Machine Learning and Radiogenomics: Lessons Learned and Future Directions. Frontiers in Oncology, 2018, 8, 228.	1.3	54
14	The Prediction of Radiotherapy Toxicity Using Single Nucleotide Polymorphismâ€'Based Models: A Step Toward Prevention. Seminars in Radiation Oncology, 2015, 25, 281-291.	1.0	52
15	Predictive modeling of outcomes following definitive chemoradiotherapy for oropharyngeal cancer based on FDG-PET image characteristics. Physics in Medicine and Biology, 2017, 62, 5327-5343.	1.6	51
16	Intravoxel incoherent motion diffusionâ€weighted MRI during chemoradiation therapy to characterize and monitor treatment response in human papillomavirus head and neck squamous cell carcinoma. Journal of Magnetic Resonance Imaging, 2017, 45, 1013-1023.	1.9	50
17	Clinical and dosimetric predictors of acute hematologic toxicity in rectal cancer patients undergoing chemoradiotherapy. Radiotherapy and Oncology, 2014, 113, 29-34.	0.3	47
18	Modeling the Cellular Response of Lung Cancer to Radiation Therapy for a Broad Range of Fractionation Schedules. Clinical Cancer Research, 2017, 23, 5469-5479.	3.2	47

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19	Modeling the Impact of Cardiopulmonary Irradiation on Overall Survival in NRG Oncology Trial RTOG 0617. Clinical Cancer Research, 2020, 26, 4643-4650.	3.2	47
20	A Bioinformatics Approach for Biomarker Identification in Radiation-Induced Lung Inflammation from Limited Proteomics Data. Journal of Proteome Research, 2011, 10, 1406-1415.	1.8	46
21	Dosimetric Predictors of Radiation-Induced Vaginal Stenosis After Pelvic Radiation Therapy for Rectal and Anal Cancer. International Journal of Radiation Oncology Biology Physics, 2015, 92, 548-554.	0.4	43
22	Secondâ€opinion interpretations of neuroimaging studies by oncologic neuroradiologists can help reduce errors in cancer care. Cancer, 2016, 122, 2708-2714.	2.0	43
23	Divergence of Drosophila melanogaster repeatomes in response to a sharp microclimate contrast in Evolution Canyon, Israel. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10630-10635.	3.3	42
24	Complication Probability Models for Radiation-Induced Heart Valvular Dysfunction: Do Heart-Lung Interactions Play a Role?. PLoS ONE, 2014, 9, e111753.	1.1	39
25	Patterns and Predictors of Amelioration of Genitourinary Toxicity After High-dose Intensity-modulated Radiation Therapy for Localized Prostate Cancer: Implications for Defining Postradiotherapy Urinary Toxicity. European Urology, 2013, 64, 931-938.	0.9	38
26	Estimate of the impact of FDG-avidity on the dose required for head and neck radiotherapy local control. Radiotherapy and Oncology, 2014, 111, 340-347.	0.3	38
27	Genome differentiation of Drosophila melanogaster from a microclimate contrast in Evolution Canyon, Israel. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 21059-21064.	3.3	35
28	Computational methods using genome-wide association studies to predict radiotherapy complications and to identify correlative molecular processes. Scientific Reports, 2017, 7, 43381.	1.6	35
29	Quantitative in vivo proton MR spectroscopic assessment of lipid metabolism: Value for breast cancer diagnosis and prognosis. Journal of Magnetic Resonance Imaging, 2019, 50, 239-249.	1.9	34
30	Automated intensity modulated treatment planning: The expedited constrained hierarchical optimization (ECHO) system. Medical Physics, 2019, 46, 2944-2954.	1.6	33
31	Relationships between dose to the gastro-intestinal tract and patient-reported symptom domains after radiotherapy for localized prostate cancer. Acta OncolÃ³gica, 2015, 54, 1326-1334.	0.8	32
32	Interpretable deep neural network for cancer survival analysis by integrating genomic and clinical data. BMC Medical Genomics, 2019, 12, 189.	0.7	32
33	Incorporating spatial dose metrics in machine learning-based normal tissue complication probability (NTCP) models of severe acute dysphagia resulting from head and neck radiotherapy. Clinical and Translational Radiation Oncology, 2018, 8, 27-39.	0.9	31
34	Predicting radiation-induced valvular heart damage. Acta OncolÃ³gica, 2015, 54, 1796-1804.	0.8	30
35	Identifying radiation-induced survivorship syndromes affecting bowel health in a cohort of gynecological cancer survivors. PLoS ONE, 2017, 12, e0171461.	1.1	30
36	Outcomes and Prognostic Factors in Women With 1 to 3 Breast Cancer Brain Metastases Treated With Definitive Stereotactic Radiosurgery. International Journal of Radiation Oncology Biology Physics, 2014, 90, 518-525.	0.4	28

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37	Predictors of acute toxicities during definitive chemoradiation using intensity-modulated radiotherapy for anal squamous cell carcinoma. Acta OncolÃ³gica, 2016, 55, 208-216.	0.8	27
38	Early posttreatment assessment of MRI perfusion biomarkers can predict long-term response of lung cancer brain metastases to stereotactic radiosurgery. Neuro-Oncology, 2018, 20, 567-575.	0.6	27
39	The role of parotid gland irradiation in the development of severe hyposalivation (xerostomia) after intensity-modulated radiation therapy for head and neck cancer: Temporal patterns, risk factors, and testing the QUANTEC guidelines. Journal of Cranio-Maxillo-Facial Surgery, 2017, 45, 595-600.	0.7	24
40	Urinary bladder doseâ€“response relationships for patient-reported genitourinary morbidity domains following prostate cancer radiotherapy. Radiotherapy and Oncology, 2016, 119, 117-122.	0.3	23
41	Radiomic analysis identifies tumor subtypes associated with distinct molecular and microenvironmental factors in head and neck squamous cell carcinoma. Oral Oncology, 2020, 110, 104877.	0.8	22
42	Machine learning on genome-wide association studies to predict the risk of radiation-associated contralateral breast cancer in the WECARE Study. PLoS ONE, 2020, 15, e0226157.	1.1	22
43	Biomarker selection and sample prediction for multi-category disease on MALDI-TOF data. Bioinformatics, 2008, 24, 1812-1818.	1.8	21
44	Pretreatment dynamic contrast-enhanced MRI biomarkers correlate with progression-free survival in primary central nervous system lymphoma. Journal of Neuro-Oncology, 2018, 140, 351-358.	1.4	21
45	PROTEOMIC BIOMARKER IDENTIFICATION FOR DIAGNOSIS OF EARLY RELAPSE IN OVARIAN CANCER. Journal of Bioinformatics and Computational Biology, 2006, 04, 1159-1179.	0.3	20
46	Local recurrence outcomes using the 32P intraoperative brachytherapy plaque in the management of malignant lesions of the spine involving the dura. Brachytherapy, 2015, 14, 202-208.	0.2	20
47	Cox-PASNet: Pathway-based Sparse Deep Neural Network for Survival Analysis. , 2018, , .		19
48	Pathway-based deep clustering for molecular subtyping of cancer. Methods, 2020, 173, 24-31.	1.9	19
49	Dynamic contrastâ€enhanced MRI model selection for predicting tumor aggressiveness in papillary thyroid cancers. NMR in Biomedicine, 2020, 33, e4166.	1.6	19
50	Non-invasive imaging prediction of tumor hypoxia: A novel developed and externally validated CT and FDG-PET-based radiomic signatures. Radiotherapy and Oncology, 2020, 153, 97-105.	0.3	19
51	Independent test of a model to predict severe acute esophagitis. Advances in Radiation Oncology, 2017, 2, 37-43.	0.6	18
52	Prostate cancer biomarker discovery using high performance mass spectral serum profiling. Computer Methods and Programs in Biomedicine, 2009, 96, 33-41.	2.6	17
53	A Bioinformatics Filtering Strategy for Identifying Radiation Response Biomarker Candidates. PLoS ONE, 2012, 7, e38870.	1.1	17
54	Characterizing Cancer Drug Response and Biological Correlates: A Geometric Network Approach. Scientific Reports, 2018, 8, 6402.	1.6	17

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55	A kernel-based approach for detecting outliers of high-dimensional biological data. BMC Bioinformatics, 2009, 10, S7.	1.2	16
56	Adaptive learning for relevance feedback: Application to digital mammography. Medical Physics, 2010, 37, 4432-4444.	1.6	16
57	Integration of multi-omics data for integrative gene regulatory network inference. International Journal of Data Mining and Bioinformatics, 2017, 18, 223.	0.1	16
58	Inference of radio-responsive gene regulatory networks using the graphical lasso algorithm. BMC Bioinformatics, 2014, 15, S5.	1.2	15
59	Library of deep-learning image segmentation and outcomes model-implementations. Physica Medica, 2020, 73, 190-196.	0.4	15
60	PathCNN: interpretable convolutional neural networks for survival prediction and pathway analysis applied to glioblastoma. Bioinformatics, 2021, 37, i443-i450.	1.8	15
61	Functional Data Analysis Applied to Modeling of Severe Acute Mucositis and Dysphagia Resulting From Head and Neck Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2016, 96, 820-831.	0.4	14
62	Diffusion and Perfusion MRI Predicts Response Preceding and Shortly After Radiosurgery to Brain Metastases: A Pilot Study. Journal of Neuroimaging, 2021, 31, 317-323.	1.0	14
63	An Extended Markov Blanket Approach to Proteomic Biomarker Detection From High-Resolution Mass Spectrometry Data. IEEE Transactions on Information Technology in Biomedicine, 2009, 13, 195-206.	3.6	13
64	Geometric network analysis provides prognostic information in patients with high grade serous carcinoma of the ovary treated with immune checkpoint inhibitors. Npj Genomic Medicine, 2021, 6, 99.	1.7	13
65	Nucleolar dominance and maternal control of 45S rDNA expression. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20152201.	1.2	12
66	A novel kernel Wasserstein distance on Gaussian measures: An application of identifying dental artifacts in head and neck computed tomography. Computers in Biology and Medicine, 2020, 120, 103731.	3.9	12
67	Identification of biological correlates associated with respiratory failure in COVID-19. BMC Medical Genomics, 2020, 13, 186.	0.7	11
68	aWCluster: A Novel Integrative Network-Based Clustering of Multiomics for Subtype Analysis of Cancer Data. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2022, 19, 1472-1483.	1.9	11
69	Modeling positioning uncertainties of prostate cancer external beam radiation therapy using pre-treatment data. Radiotherapy and Oncology, 2014, 110, 251-255.	0.3	10
70	In Regard to Brown etÂal. International Journal of Radiation Oncology Biology Physics, 2014, 89, 692-693.	0.4	10
71	Radiation Dose to the Penile Structures and Patient-Reported Sexual Dysfunction in Long-Term Prostate Cancer Survivors. Journal of Sexual Medicine, 2015, 12, 2388-2397.	0.3	10
72	A Factor Analysis Approach for Clustering Patient Reported Outcomes. Methods of Information in Medicine, 2016, 55, 431-439.	0.7	10

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73	Fast Kernel Discriminant Analysis for Classification of Liver Cancer Mass Spectra. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2011, 8, 1522-1534.	1.9	9
74	A literature mining-based approach for identification of cellular pathways associated with chemoresistance in cancer. Briefings in Bioinformatics, 2016, 17, 468-478.	3.2	9
75	Simulating intrafraction prostate motion with a random walk model. Advances in Radiation Oncology, 2017, 2, 429-436.	0.6	9
76	Image-guided radiotherapy reduces the risk of under-dosing high-risk prostate cancer extra-capsular disease and improves biochemical control. Radiation Oncology, 2018, 13, 64.	1.2	9
77	Prediction of Breast Cancer Treatmentâ€“Induced Fatigue by Machine Learning UsingÂGenome-Wide Association Data. JNCI Cancer Spectrum, 2020, 4, pkaa039.	1.4	9
78	Computational Modeling of Interstitial Fluid Pressure and Velocity in Non-small Cell Lung Cancer Brain Metastases Treated With Stereotactic Radiosurgery. Frontiers in Neurology, 2020, 11, 402.	1.1	9
79	Bayesian Network Learning for Detecting Reliable Interactions of Dose-Volume Related Parameters in Radiation Pneumonitis. , 2009, , .		8
80	MSQ: a tool for quantification of proteomics data generated by a liquid chromatography/matrixâ€assisted laser desorption/ionization timeâ€ofâ€flight tandem mass spectrometry based targeted quantitative proteomics platform. Rapid Communications in Mass Spectrometry, 2010, 24, 403-408.	0.7	8
81	Quality control of radiomic features using 3D-printed CT phantoms. Journal of Medical Imaging, 2021, 8, 033505.	0.8	8
82	Diffusion-Weighted Echo Planar Imaging Using Multiplexed Sensitivity Encoding and Reverse Polarity Gradient in Head Andneck Cancer: An Initial Study. Tomography, 2020, 6, 231-240.	0.8	8
83	MRI features predictive of negative surgical margins in patients with HER2 overexpressing breast cancer undergoing breast conservation. Scientific Reports, 2018, 8, 315.	1.6	7
84	Quantitative Non-Gaussian Intravoxel Incoherent Motion Diffusion-Weighted Imaging Metrics and Surgical Pathology for Stratifying Tumor Aggressiveness in Papillary Thyroid Carcinomas. Tomography, 2019, 5, 26-35.	0.8	7
85	Pan-Cancer Prediction of Cell-Line Drug Sensitivity Using Network-Based Methods. International Journal of Molecular Sciences, 2022, 23, 1074.	1.8	7
86	Application of Machine Learning Techniques for Prediction of Radiation Pneumonitis in Lung Cancer Patients. , 2009, , .		6
87	Predictive Modeling of Thoracic Radiotherapy Toxicity and the Potential Role of Serum Alpha-2-Macroglobulin. Frontiers in Oncology, 2020, 10, 1395.	1.3	6
88	Diagnosis of early relapse in ovarian cancer using serum proteomic profiling. Genome Informatics, 2005, 16, 195-204.	0.4	6
89	Prediction of labor for pregnant women using high-resolution mass spectrometry data. , 2006, , .		5
90	Internal and external generalizability of temporal doseâ€“response relationships for xerostomia following IMRT for head and neck cancer. Radiotherapy and Oncology, 2017, 122, 200-206.	0.3	5

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91	Gene- and Pathway-Based Deep Neural Network for Multi-omics Data Integration to Predict Cancer Survival Outcomes. Lecture Notes in Computer Science, 2019, , 113-124.	1.0	5
92	vWCluster: Vector-valued optimal transport for network based clustering using multi-omics data in breast cancer. PLoS ONE, 2022, 17, e0265150.	1.1	5
93	EMERGING PATTERN BASED SUBSPACE CLUSTERING OF MICROARRAY GENE EXPRESSION DATA USING MIXTURE MODELS. , 2005, , .		4
94	Integrative Gene Regulatory Network inference using multi-omics data. , 2016, , .		4
95	Registering Study Analysis Plans (SAPs) Before Dissecting Your Dataâ€"Updating and Standardizing Outcome Modeling. Frontiers in Oncology, 2020, 10, 978.	1.3	4
96	Nongaussian Intravoxel Incoherent Motion Diffusion Weighted and Fast Exchange Regime Dynamic Contrast-Enhanced-MRI of Nasopharyngeal Carcinoma: Preliminary Study for Predicting Locoregional Failure. Cancers, 2021, 13, 1128.	1.7	4
97	Peptide Identification by Tandem Mass Spectra: An Efficient Parallel Searching. , 0, , .		3
98	Morphologic Features of Magnetic Resonance Imaging as a Surrogate of Capsular Contracture in Breast Cancer Patients With Implant-based Reconstructions. International Journal of Radiation Oncology Biology Physics, 2017, 97, 411-419.	0.4	3
99	R-PathCluster: Identifying cancer subtype of glioblastoma multiforme using pathway-based restricted boltzmann machine. , 2017, , .		3
100	Application of Community Detection Algorithm to Investigate the Correlation between Imaging Biomarkers of Tumor Metabolism, Hypoxia, Cellularity, and Perfusion for Precision Radiotherapy in Head and Neck Squamous Cell Carcinomas. Cancers, 2021, 13, 3908.	1.7	3
101	Online learning of relevance feedback from expert readers for mammogram retrieval. , 2009, , .		2
102	Longitudinal Monitoring of Simulated Interstitial Fluid Pressure for Pancreatic Ductal Adenocarcinoma Patients Treated with Stereotactic Body Radiotherapy. Cancers, 2021, 13, 4319.	1.7	2
103	Predicting Local Failure in Lung Cancer Using Bayesian Networks. , 2010, , .		1
104	SITDEM: A simulation tool for disease/endpoint models of association studies based on single nucleotide polymorphism genotypes. Computers in Biology and Medicine, 2014, 45, 136-142.	3.9	1
105	Predictors of acute throat or esophageal patient reported pain during radiation therapy for head and neck cancer. Clinical and Translational Radiation Oncology, 2018, 13, 1-6.	0.9	1
106	Reproducibility of radiomic features using network analysis and its application in Wasserstein k-means clustering. Journal of Medical Imaging, 2021, 8, 031904.	0.8	1
107	Editorial of Special Issue â€œDeep Learning and Machine Learning in Bioinformaticsâ€• International Journal of Molecular Sciences, 2022, 23, 6610.	1.8	1
108	Classification of Relapse Ovarian Cancer on MALDI-TOF Mass Spectrometry Data. , 2006, , .		0

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109	Response and Rebuttal to Editorial Comment on â€œRadiation Dose to the Penile Structures and Patient-Reported Sexual Dysfunction in Long-Term Prostate Cancer Survivorsâ€. Journal of Sexual Medicine, 2015, 12, 2400.	0.3	0
110	Transcriptional responses to ultraviolet and ionizing radiation: An approach based on graph curvature. , 2016, 2016, 1302-1306.		0
111	Preconditioned Random Forest Regression. , 2017, , .		0
112	PASCL: Pathway-based Sparse Deep Clustering for Identifying Unknown Cancer Subtypes. , 2018, , .		0
113	A Vectorial Approach to Unbalanced Optimal Mass Transport. IEEE Access, 2020, 8, 209224-209231.	2.6	0
114	A TWO-WAY SEARCHING ALGORITHM FOR DE NOVO PEPTIDE SEQUENCING VIA TANDEM MASS SPECTROMETRY. , 2005, , .		0
115	Relevance Feedback as New Tool for Computer-Aided Diagnosis in Image Databases. Advances in Bioinformatics and Biomedical Engineering Book Series, 2012, , 86-106.	0.2	0