

Susanta K Hui

List of Publications by Year in descending order

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72
papers

2,411
citations

304743

22
h-index

223800

46
g-index

73
all docs

73
docs citations

73
times ranked

3387
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiation-Induced Vascular Damage in Tumors: Implications of Vascular Damage in Ablative Hypofractionated Radiotherapy (SBRT and SRS). <i>Radiation Research</i> , 2012, 177, 311-327.	1.5	438
2	Bone Marrow Adipose Tissue Is an Endocrine Organ that Contributes to Increased Circulating Adiponectin during Caloric Restriction. <i>Cell Metabolism</i> , 2014, 20, 368-375.	16.2	415
3	<i>Physics</i> , 2005, 32, 3214-3224.	3.0	187
4	Indirect Tumor Cell Death After High-Dose Hypofractionated Irradiation: Implications for Stereotactic Body Radiation Therapy and Stereotactic Radiation Surgery. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 93, 166-172.	0.8	124
5	Biological Principles of Stereotactic Body Radiation Therapy (SBRT) and Stereotactic Radiation Surgery (SRS): Indirect Cell Death. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 110, 21-34.	0.8	103
6	Water-fat MRI for assessing changes in bone marrow composition due to radiation and chemotherapy in gynecologic cancer patients. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 1578-1584.	3.4	73
7	A mathematical model of tumor growth and its response to single irradiation. <i>Theoretical Biology and Medical Modelling</i> , 2016, 13, 6.	2.1	65
8	Total marrow and total lymphoid irradiation in bone marrow transplantation for acute leukaemia. <i>Lancet Oncology</i> , The, 2020, 21, e477-e487.	10.7	57
9	Copper-64 labeled daratumumab as a PET/CT imaging tracer for multiple myeloma. <i>Blood</i> , 2018, 131, 741-745.	1.4	54
10	Helical tomotherapy targeting total bone marrow - First clinical experience at the University of Minnesota. <i>Acta Oncologica</i> , 2007, 46, 250-255.	1.8	53
11	Validation of marrow fat assessment using noninvasive imaging with histologic examination of human bone samples. <i>Bone</i> , 2015, 72, 118-122.	2.9	42
12	CT-based analysis of dose homogeneity in total body irradiation using lateral beam. <i>Journal of Applied Clinical Medical Physics</i> , 2004, 5, 71-79.	1.9	41
13	Helical Tomotherapy as a Means of Delivering Accelerated Partial Breast Irradiation. <i>Technology in Cancer Research and Treatment</i> , 2004, 3, 639-646.	1.9	41
14	Radiation-Related Toxicities Using Organ Sparing Total Marrow Irradiation Transplant Conditioning Regimens. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 105, 1025-1033.	0.8	41
15	Dose Escalation of Total Marrow Irradiation in High-Risk Patients Undergoing Allogeneic Hematopoietic Stem Cell Transplantation. <i>Biology of Blood and Marrow Transplantation</i> , 2017, 23, 1110-1116.	2.0	40
16	Radiation response of mesenchymal stem cells derived from bone marrow and human pluripotent stem cells. <i>Journal of Radiation Research</i> , 2015, 56, 269-277.	1.6	32
17	Assessing prostate, bladder and rectal doses during image guided radiation therapy - need for plan adaptation?. <i>Journal of Applied Clinical Medical Physics</i> , 2009, 10, 56-74.	1.9	31
18	Use of dual-energy computed tomography to measure skeletal-wide marrow composition and cancellous bone mineral density. <i>Journal of Bone and Mineral Metabolism</i> , 2017, 35, 428-436.	2.7	28

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19	A phase I feasibility study of multi-modality imaging assessing rapid expansion of marrow fat and decreased bone mineral density in cancer patients. <i>Bone</i> , 2015, 73, 90-97.	2.9	27
20	The Influence of Therapeutic Radiation on the Patterns of Bone Marrow in Ovary-Intact and Ovariectomized Mice. <i>PLoS ONE</i> , 2012, 7, e42668.	2.5	26
21	SMC1A is associated with radioresistance in prostate cancer and acts by regulating epithelial-mesenchymal transition and cancer stem-like properties. <i>Molecular Carcinogenesis</i> , 2019, 58, 113-125.	2.7	26
22	Marrow damage and hematopoietic recovery following allogeneic bone marrow transplantation for acute leukemias: Effect of radiation dose and conditioning regimen. <i>Radiotherapy and Oncology</i> , 2016, 118, 65-71.	0.6	24
23	Emerging CAR T Cell Strategies for the Treatment of AML. <i>Cancers</i> , 2022, 14, 1241.	3.7	24
24	Pulmonary Toxicity After Total Body Irradiation – Critical Review of the Literature and Recommendations for Toxicity Reporting. <i>Frontiers in Oncology</i> , 2021, 11, 708906.	2.8	22
25	Characterization of an orthovoltage biological irradiator used for radiobiological research. <i>Journal of Radiation Research</i> , 2015, 56, 485-492.	1.6	18
26	Central Nervous System Injury – A Newly Observed Bystander Effect of Radiation. <i>PLoS ONE</i> , 2016, 11, e0163233.	2.5	18
27	Multimodality Image Guided Total Marrow Irradiation and Verification of the Dose Delivered to the Lung, PTV, and Thoracic Bone in a Patient: A Case Study. <i>Technology in Cancer Research and Treatment</i> , 2009, 8, 23-28.	1.9	17
28	High-throughput multiple-mouse imaging with micro-PET/CT for whole-skeleton assessment. <i>Physica Medica</i> , 2014, 30, 849-853.	0.7	17
29	Early assessment of dosimetric and biological differences of total marrow irradiation versus total body irradiation in rodents. <i>Radiotherapy and Oncology</i> , 2017, 124, 468-474.	0.6	17
30	CT-based analysis of dose homogeneity in total body irradiation using lateral beam. <i>Journal of Applied Clinical Medical Physics</i> , 2004, 5, 71-79.	1.9	16
31	Longitudinal FDG-PET Revealed Regional Functional Heterogeneity of Bone Marrow, Site-Dependent Response to Treatment and Correlation with Hematological Parameters. <i>Journal of Cancer</i> , 2015, 6, 531-537.	2.5	14
32	Multi-institutional Feasibility Study of a Fast Patient Localization Method in Total Marrow Irradiation With Helical Tomotherapy: A Global Health Initiative by the International Consortium of Total Marrow Irradiation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 91, 30-38.	0.8	14
33	Evaluation of Functional Marrow Irradiation Based on Skeletal Marrow Composition Obtained Using Dual-Energy Computed Tomography. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 96, 679-687.	0.8	14
34	Multi-institutional evaluation of MVCT guided patient registration and dosimetric precision in total marrow irradiation: A global health initiative by the international consortium of total marrow irradiation. <i>Radiotherapy and Oncology</i> , 2019, 141, 275-282.	0.6	14
35	Radiation-induced Vascular Damage and the Impact on the Treatment Outcome of Stereotactic Body Radiotherapy. <i>Anticancer Research</i> , 2019, 39, 2721-2727.	1.1	14
36	A Dual-Radioisotope Hybrid Whole-Body Micro-Positron Emission Tomography/Computed Tomography System Reveals Functional Heterogeneity and Early Local and Systemic Changes Following Targeted Radiation to the Murine Caudal Skeleton. <i>Calcified Tissue International</i> , 2014, 94, 544-552.	3.1	13

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37	Long-Term Outcomes of Patients with Acute Myelogenous Leukemia Treated with Myeloablative Fractionated Total Body Irradiation TBI-Based Conditioning with a Tacrolimus- and Sirolimus-Based Graft-versus-Host Disease Prophylaxis Regimen: 6-Year Follow-Up from a Single Center. <i>Biology of Blood and Marrow Transplantation</i> , 2020, 26, 292-299.	2.0	13
38	The Influence of Therapeutic Radiation on the Patterns of Bone Remodeling in Ovary-Intact and Ovariectomized Mice. <i>Calcified Tissue International</i> , 2013, 92, 372-384.	3.1	12
39	Whole-Body Distribution of Leukemia and Functional Total Marrow Irradiation Based on FLT-PET and Dual-Energy CT. <i>Molecular Imaging</i> , 2017, 16, 153601211773220.	1.4	12
40	Potent immunomodulatory effects of an anti-CEA-IL-2 immunocytokine on tumor therapy and effects of stereotactic radiation. <i>Oncolmmunology</i> , 2020, 9, 1724052.	4.6	12
41	Spatial and Temporal Fracture Pattern in Breast and Gynecologic Cancer Survivors. <i>Journal of Cancer</i> , 2015, 6, 66-69.	2.5	11
42	ImmunoPET, [64Cu]Cu-DOTA-Anti-CD33 PET-CT, Imaging of an AML Xenograft Model. <i>Clinical Cancer Research</i> , 2019, 25, 7463-7474.	7.0	11
43	Skeletal Remodeling Following Clinically Relevant Radiation-Induced Bone Damage Treated with Zoledronic Acid. <i>Calcified Tissue International</i> , 2012, 90, 40-49.	3.1	10
44	Peripheral Dose Heterogeneity Due to the Thread Effect in Total Marrow Irradiation With Helical Tomotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 87, 832-839.	0.8	10
45	3-D Cell Culture Systems in Bone Marrow Tissue and Organoid Engineering, and BM Phantoms as In Vitro Models of Hematological Cancer Therapeutics—A Review. <i>Materials</i> , 2020, 13, 5609.	2.9	10
46	Characterization of deformation and physical force in uniform low contrast anatomy and its impact on accuracy of deformable image registration. <i>Medical Physics</i> , 2015, 43, 52-61.	3.0	9
47	Prototype Small-Animal PET-CT Imaging System for Image-Guided Radiation Therapy. <i>IEEE Access</i> , 2019, 7, 143207-143216.	4.2	9
48	Total marrow and lymphoid irradiation as conditioning in haploidentical transplant with posttransplant cyclophosphamide. <i>Blood Advances</i> , 2022, 6, 4098-4106.	5.2	9
49	Optimization of conformal avoidance: A comparative study of prone vs. supine interstitial high-dose-rate breast brachytherapy. <i>Brachytherapy</i> , 2005, 4, 137-140.	0.5	8
50	First Multimodal, Three-Dimensional, Image-Guided Total Marrow Irradiation Model for Preclinical Bone Marrow Transplantation Studies. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 111, 671-683.	0.8	8
51	Combination therapeutics of Nilotinib and radiation in acute lymphoblastic leukemia as an effective method against drug-resistance. <i>PLoS Computational Biology</i> , 2017, 13, e1005482.	3.2	8
52	Novel Immune Cell-Based Therapies to Eradicate High-Risk Acute Myeloid Leukemia. <i>Frontiers in Immunology</i> , 2021, 12, 695051.	4.8	7
53	Fast Megavoltage Computed Tomography: A Rapid Imaging Method for Total Body or Marrow Irradiation in Helical Tomotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 96, 688-695.	0.8	6
54	Biophysical Characterization of the Leukemic Bone Marrow Vasculature Reveals Benefits of Neoadjuvant Low-Dose Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 109, 60-72.	0.8	6

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55	Targeted In Vivo Delivery of NF- κ B Decoy Inhibitor Augments Sensitivity of B Cell Lymphoma to Therapy. <i>Molecular Therapy</i> , 2021, 29, 1214-1225.	8.2	6
56	Assessing the Clinical Utility of Quantitative Computed Tomography With a Routinely Used Diagnostic Computed Tomography Scanner in a Cancer Center. <i>Journal of Clinical Densitometry</i> , 2011, 14, 41-46.	1.2	5
57	Liquid scintillation based quantitative measurement of dual radioisotopes (^3H and ^{45}Ca) in biological samples for bone remodeling studies. <i>Applied Radiation and Isotopes</i> , 2012, 70, 63-68.	1.5	4
58	Automated in Vivo Assessment of Vascular Response to Radiation Using a Hybrid Theranostic X-Ray Irradiator/Fluorescence Molecular Imaging System. <i>IEEE Access</i> , 2020, 8, 93663-93670.	4.2	4
59	Total Marrow and Lymphoid Irradiation with Post-Transplantation Cyclophosphamide for Patients with AML in Remission. <i>Transplantation and Cellular Therapy</i> , 2022, 28, 368.e1-368.e7.	1.2	4
60	Biologic and Image Guided Systemic Radiotherapy. <i>Cancer Treatment and Research</i> , 2017, , 155-189.	0.5	3
61	Total Marrow and Lymphoid Irradiation (TMLI) at a Dose of 2000cGy in Combination with Post-Transplant Cyclophosphamide (PTCy)-Based Graft Versus Host Disease (GvHD) Prophylaxis Is Safe and Associated with Favorable GvHD-Free/Relapse-Free Survival at 1 Year in Patients with Acute Myeloid Leukemia (AML). <i>Blood</i> , 2020, 136, 41-42.	1.4	3
62	Role of NK Cells in Cancer and Immunotherapy. <i>Onco</i> , 2021, 1, 158-175.	0.6	3
63	Longitudinal Preclinical Imaging Characterizes Extracellular Drug Accumulation After Radiation Therapy in the Healthy and Leukemic Bone Marrow Vascular Microenvironment. <i>International Journal of Radiation Oncology Biology Physics</i> , 2022, 112, 951-963.	0.8	2
64	Long-term follow-up of patients with poor-risk acute leukemia treated on a phase 2 trial undergoing intensified conditioning regimen prior to allogeneic hematopoietic cell transplantation. <i>Leukemia and Lymphoma</i> , 2022, 63, 1220-1226.	1.3	2
65	Feasibility of a Novel Sparse Orthogonal Collimator-Based Preclinical Total Marrow Irradiation for Enhanced Dosimetric Conformality. <i>Frontiers in Oncology</i> , 0, 12, .	2.8	2
66	^{64}Cu -DOTA-Anti-CD33 PET-CT Imaging for Acute Myeloid Leukemia and Image-Guided Treatment. <i>Blood</i> , 2018, 132, 2747-2747.	1.4	1
67	Targeted Marrow Radiation (TMI) Improves Therapeutic Efficacy of STAT3 Decoy Molecules By Augmenting Its Delivery and Immune Modulation in an AML Mouse Model. <i>Blood</i> , 2019, 134, 3929-3929.	1.4	1
68	Megavoltage 2D topographic imaging: An attractive alternative to megavoltage CT for the localization of breast cancer patients treated with TomoDirect. <i>Physica Medica</i> , 2017, 39, 33-38.	0.7	0
69	Leukemia Cells Remodel Adipocyte Niches and Their Progenitor Functions to Generate Leukemia Favoring Niche. <i>Blood</i> , 2018, 132, 1294-1294.	1.4	0
70	Radiobiologic Factors to Consider with Total Marrow Irradiation. , 2020, , 47-68.		0
71	Total Marrow Irradiation for Second Allogeneic Haematopoietic Stem Cell Transplantation in Patients with Advanced Acute Leukemia. <i>Blood</i> , 2020, 136, 32-32.	1.4	0
72	Theranostic Fluorescence Tomography -Guided Small Animal X-ray Irradiator Platform: System Development and Validation. , 2022, , .		0