Susanta K Hui

List of Publications by Year
in descending order

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	Longitudinal Preclinical Imaging Characterizes Extracellular Drug Accumulation After Radiation Therapy in the Healthy and Leukemic Bone Marrow Vascular Microenvironment. International Journal of Radiation Oncology Biology Physics, 2022, 112, 951-963.	0.8	2
2	Emerging CAR T Cell Strategies for the Treatment of AML. Cancers, 2022, 14, 1241.	3.7	24
3	Total Marrow and Lymphoid Irradiation with Post-Transplantation Cyclophosphamide for Patients with AML in Remission. Transplantation and Cellular Therapy, 2022, 28, 368.e1-368.e7.	1.2	4
4	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. Leukemia and Lymphoma, 2022, 63, 1220-1226.	1.3	2
5	Theranostic Fluorescence Tomography -Guided Small Animal X-ray Irradiator Platform: System Development and Validation. , 2022, , .		0
6	Total marrow and lymphoid irradiation as conditioning in haploidentical transplant with posttransplant cyclophosphamide. Blood Advances, 2022, 6, 4098-4106.	5.2	9
7	Biological Principles of Stereotactic Body Radiation Therapy (SBRT) and Stereotactic Radiation Surgery (SRS): Indirect Cell Death. International Journal of Radiation Oncology Biology Physics, 2021, 110, 21-34.	0.8	103
8	Biophysical Characterization of the Leukemic Bone Marrow Vasculature Reveals Benefits of Neoadjuvant Low-Dose Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2021, 109, 60-72.	0.8	6
9	Targeted InÂVivo Delivery of NF-Î²B Decoy Inhibitor Augments Sensitivity of B Cell Lymphoma to Therapy. Molecular Therapy, 2021, 29, 1214-1225.	8.2	6
10	Novel Immune Cell-Based Therapies to Eradicate High-Risk Acute Myeloid Leukemia. Frontiers in Immunology, 2021, 12, 695051.	4.8	7
11	Pulmonary Toxicity After Total Body Irradiation â€“ Critical Review of the Literature and Recommendations for Toxicity Reporting. Frontiers in Oncology, 2021, 11, 708906.	2.8	22
12	First Multimodal, Three-Dimensional, Image-Guided Total Marrow Irradiation Model for Preclinical Bone Marrow Transplantation Studies. International Journal of Radiation Oncology Biology Physics, 2021, 111, 671-683.	0.8	8
13	Role of NK Cells in Cancer and Immunotherapy. Onco, 2021, 1, 158-175.	0.6	3
14	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. Biology of Blood and Marrow Transplantation, 2020, 26, 292-299.	2.0	13
15	Total marrow and total lymphoid irradiation in bone marrow transplantation for acute leukaemia. Lancet Oncology, The, 2020, 21, e477-e487.	10.7	57
16	3-D Cell Culture Systems in Bone Marrow Tissue and Organoid Engineering, and BM Phantoms as In Vitro Models of Hematological Cancer Therapeuticsâ€”A Review. Materials, 2020, 13, 5609.	2.9	10
17	Automated in Vivo Assessment of Vascular Response to Radiation Using a Hybrid Theranostic X-Ray Irradiator/Fluorescence Molecular Imaging System. IEEE Access, 2020, 8, 93663-93670.	4.2	4
18	Potent immunomodulatory effects of an anti-CEA-IL-2 immunocytokine on tumor therapy and effects of stereotactic radiation. OncoImmunology, 2020, 9, 1724052.	4.6	12

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19	Radiobiologic Factors to Consider with Total Marrow Irradiation. , 2020, , 47-68.		0
20	Total Marrow Irradiation for Second Allogeneic Haematopoietic Stem Cell Transplantation in Patients with Advanced Acute Leukemia. Blood, 2020, 136, 32-32.	1.4	0
21	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). Blood, 2020, 136, 41-42.	1.4	3
22	Prototype Small-Animal PET-CT Imaging System for Image-Guided Radiation Therapy. IEEE Access, 2019, 7, 143207-143216.	4.2	9
23	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. Radiotherapy and Oncology, 2019, 141, 275-282.	0.6	14
24	Radiation-Related Toxicities Using Organ Sparing Total Marrow Irradiation Transplant Conditioning Regimens. International Journal of Radiation Oncology Biology Physics, 2019, 105, 1025-1033.	0.8	41
25	Radiation-induced Vascular Damage and the Impact on the Treatment Outcome of Stereotactic Body Radiotherapy. Anticancer Research, 2019, 39, 2721-2727.	1.1	14
26	SMC1A is associated with radioresistance in prostate cancer and acts by regulating epithelialâ€mesenchymal transition and cancer stemâ€like properties. Molecular Carcinogenesis, 2019, 58, 113-125.	2.7	26
27	ImmunoPET, [64Cu]Cu-DOTA-Anti-CD33 PET-CT, Imaging of an AML Xenograft Model. Clinical Cancer Research, 2019, 25, 7463-7474.	7.0	11
28	Targeted Marrow Radiation (TMI) Improves Therapeutic Efficacy of STAT3 Decoy Molecules By Augmenting Its Delivery and Immune Modulation in an AML Mouse Model. Blood, 2019, 134, 3929-3929.	1.4	1
29	Copper 64â€“labeled daratumumab as a PET/CT imaging tracer for multiple myeloma. Blood, 2018, 131, 741-745.	1.4	54
30	64cu-DOTA-Anti-CD33 PET-CT Imaging for Acute Myeloid Leukemia and Image-Guided Treatment. Blood, 2018, 132, 2747-2747.	1.4	1
31	Leukemia Cells Remodel Adipocyte Niches and Their Progenitor Functions to Generate Leukemia Favoring Niche. Blood, 2018, 132, 1294-1294.	1.4	0
32	Dose Escalation of Total Marrow Irradiation in High-Risk Patients Undergoing Allogeneic Hematopoietic Stem Cell Transplantation. Biology of Blood and Marrow Transplantation, 2017, 23, 1110-1116.	2.0	40
33	Use of dual-energy computed tomography to measure skeletal-wide marrow composition and cancellous bone mineral density. Journal of Bone and Mineral Metabolism, 2017, 35, 428-436.	2.7	28
34	Early assessment of dosimetric and biological differences of total marrow irradiation versus total body irradiation in rodents. Radiotherapy and Oncology, 2017, 124, 468-474.	0.6	17
35	Megavoltage 2D topographic imaging: An attractive alternative to megavoltage CT for the localization of breast cancer patients treated with TomoDirect. Physica Medica, 2017, 39, 33-38.	0.7	0
36	Whole-Body Distribution of Leukemia and Functional Total Marrow Irradiation Based on FLT-PET and Dual-Energy CT. Molecular Imaging, 2017, 16, 153601211773220.	1.4	12

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37	Biologic and Image Guided Systemic Radiotherapy. Cancer Treatment and Research, 2017, , 155-189.	0.5	3
38	Combination therapeutics of Nilotinib and radiation in acute lymphoblastic leukemia as an effective method against drug-resistance. PLoS Computational Biology, 2017, 13, e1005482.	3.2	8
39	Fast Megavoltage Computed Tomography: A Rapid Imaging Method for Total Body or Marrow Irradiation in Helical Tomotherapy. International Journal of Radiation Oncology Biology Physics, 2016, 96, 688-695.	0.8	6
40	Evaluation of Functional Marrow Irradiation Based on Skeletal Marrow Composition Obtained Using Dual-Energy Computed Tomography. International Journal of Radiation Oncology Biology Physics, 2016, 96, 679-687.	0.8	14
41	A mathematical model of tumor growth and its response to single irradiation. Theoretical Biology and Medical Modelling, 2016, 13, 6.	2.1	65
42	Marrow damage and hematopoietic recovery following allogeneic bone marrow transplantation for acute leukemias: Effect of radiation dose and conditioning regimen. Radiotherapy and Oncology, 2016, 118, 65-71.	0.6	24
43	Central Nervous System Injury â€“ A Newly Observed Bystander Effect of Radiation. PLoS ONE, 2016, 11, e0163233.	2.5	18
44	Characterization of deformation and physical force in uniform low contrast anatomy and its impact on accuracy of deformable image registration. Medical Physics, 2015, 43, 52-61.	3.0	9
45	Longitudinal FDG-PET Revealed Regional Functional Heterogeneity of Bone Marrow, Site-Dependent Response to Treatment and Correlation with Hematological Parameters. Journal of Cancer, 2015, 6, 531-537.	2.5	14
46	Spatial and Temporal Fracture Pattern in Breast and Gynecologic Cancer Survivors. Journal of Cancer, 2015, 6, 66-69.	2.5	11
47	Indirect Tumor Cell Death After High-Dose Hypofractionated Irradiation: Implications forÂStereotactic Body Radiation Therapy and Stereotactic Radiation Surgery. International Journal of Radiation Oncology Biology Physics, 2015, 93, 166-172.	0.8	124
48	Radiation response of mesenchymal stem cells derived from bone marrow and human pluripotent stem cells. Journal of Radiation Research, 2015, 56, 269-277.	1.6	32
49	A phase I feasibility study of multi-modality imaging assessing rapid expansion of marrow fat and decreased bone mineral density in cancer patients. Bone, 2015, 73, 90-97.	2.9	27
50	Characterization of an orthovoltage biological irradiator used for radiobiological research. Journal of Radiation Research, 2015, 56, 485-492.	1.6	18
51	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. International Journal of Radiation Oncology Biology Physics, 2015, 91, 30-38.	0.8	14
52	Validation of marrow fat assessment using noninvasive imaging with histologic examination of human bone samples. Bone, 2015, 72, 118-122.	2.9	42
53	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. Calcified Tissue International, 2014, 94, 544-552.	3.1	13
54	High-throughput multiple-mouse imaging with micro-PET/CT for whole-skeleton assessment. Physica Medica, 2014, 30, 849-853.	0.7	17

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55	Bone Marrow Adipose Tissue Is an Endocrine Organ that Contributes to Increased Circulating Adiponectin during Caloric Restriction. Cell Metabolism, 2014, 20, 368-375.	16.2	415
56	The Influence of Therapeutic Radiation on the Patterns of Bone Remodeling in Ovary-Intact and Ovariectomized Mice. Calcified Tissue International, 2013, 92, 372-384.	3.1	12
57	Waterâ€“fat MRI for assessing changes in bone marrow composition due to radiation and chemotherapy in gynecologic cancer patients. Journal of Magnetic Resonance Imaging, 2013, 38, 1578-1584.	3.4	73
58	Peripheral Dose Heterogeneity Due to the Thread Effect in Total Marrow Irradiation With Helical Tomotherapy. International Journal of Radiation Oncology Biology Physics, 2013, 87, 832-839.	0.8	10
59	Radiation-Induced Vascular Damage in Tumors: Implications of Vascular Damage in Ablative Hypofractionated Radiotherapy (SBRT and SRS). Radiation Research, 2012, 177, 311-327.	1.5	438
60	The Influence of Therapeutic Radiation on the Patterns of Bone Marrow in Ovary-Intact and Ovariectomized Mice. PLoS ONE, 2012, 7, e42668.	2.5	26
61	Liquid scintillation based quantitative measurement of dual radioisotopes (3H and 45Ca) in biological samples for bone remodeling studies. Applied Radiation and Isotopes, 2012, 70, 63-68.	1.5	4
62	Skeletal Remodeling Following Clinically Relevant Radiation-Induced Bone Damage Treated with Zoledronic Acid. Calcified Tissue International, 2012, 90, 40-49.	3.1	10
63	Assessing the Clinical Utility of Quantitative Computed Tomography With a Routinely Used Diagnostic Computed Tomography Scanner in a Cancer Center. Journal of Clinical Densitometry, 2011, 14, 41-46.	1.2	5
64	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. Technology in Cancer Research and Treatment, 2009, 8, 23-28.	1.9	17
65	Assessing prostate, bladder and rectal doses during image guided radiation therapy â€" need for plan adaptation?. Journal of Applied Clinical Medical Physics, 2009, 10, 56-74.	1.9	31
66	Helical tomotherapy targeting total bone marrow â€“ First clinical experience at the University of Minnesota. Acta OncolÃ³gica, 2007, 46, 250-255.	1.8	53
67	Optimization of conformal avoidance: A comparative study of prone vs. supine interstitial high-dose-rate breast brachytherapy. Brachytherapy, 2005, 4, 137-140.	0.5	8
68	Physics, 2005, 32, 3214-3224.	3.0	187
69	CT-based analysis of dose homogeneity in total body irradiation using lateral beam. Journal of Applied Clinical Medical Physics, 2004, 5, 71-79.	1.9	41
70	Helical Tomotherapy as a Means of Delivering Accelerated Partial Breast Irradiation. Technology in Cancer Research and Treatment, 2004, 3, 639-646.	1.9	41
71	CT-based analysis of dose homogeneity in total body irradiation using lateral beam. Journal of Applied Clinical Medical Physics, 2004, 5, 71-79.	1.9	16
72	Feasibility of a Novel Sparse Orthogonal Collimatorâ€“Based Preclinical Total Marrow Irradiation for Enhanced Dosimetric Conformality. Frontiers in Oncology, 0, 12, .	2.8	2