

Keith A Cengel

List of Publications by Year in descending order

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110
papers

6,559
citations

230014

27
h-index

73587

79
g-index

110
all docs

110
docs citations

110
times ranked

10364
citing authors

#	ARTICLE	IF	CITATIONS
1	Adjuvant Photodynamic Therapy, Mediated via Topical Versus Systemic Administration of 5-aminolevulinic Acid for Control of Murine Mammary Tumor after Surgical Resection. Photochemistry and Photobiology, 2022, 98, 117-126.	1.3	1
2	Radiomic Phenotypes for Improving Early Prediction of Survival in Stage III Non-Small Cell Lung Cancer Adenocarcinoma after Chemoradiation. Cancers, 2022, 14, 700.	1.7	7
3	Forging Forward in Photodynamic Therapy. Cancer Research, 2022, 82, 534-536.	0.4	27
4	Real-time PDT dose dosimetry for pleural photodynamic therapy. , 2022, 11940, .		5
5	Transient expansion and myofibroblast conversion of adipogenic lineage precursors mediate bone marrow repair after radiation. JCI Insight, 2022, 7, .	2.3	7
6	Delayed-Phase Enhancement for Evaluation of Malignant Pleural Mesothelioma on Computed Tomography: A Prospective Cohort Study. Clinical Lung Cancer, 2021, 22, 210-217.e1.	1.1	10
7	Current delivery limitations of proton PBS for FLASH. Radiotherapy and Oncology, 2021, 155, 212-218.	0.3	35
8	Early Changes in Physical Activity and Quality of Life With Thoracic Radiation Therapy in Breast Cancer, Lung Cancer, and Lymphoma. International Journal of Radiation Oncology Biology Physics, 2021, 109, 946-952.	0.4	7
9	CT for detection of malignant posterior intercostal lymph nodes in patients undergoing pre-operative staging for malignant pleural mesothelioma. Lung Cancer, 2021, 152, 34-38.	0.9	1
10	Abstract IA-019: Preclinical studies with proton FLASH radiotherapy in mice and canines: Biological effects, biophysical considerations and potential mechanisms. , 2021, , .		0
11	Serum soluble mesothelin-related protein (SMRP) and fibulin-3 levels correlate with baseline malignant pleural mesothelioma (MPM) tumor volumes but are not useful as biomarkers of response in an immunotherapy trial. Lung Cancer, 2021, 154, 5-12.	0.9	8
12	Could Protons Promote Tumor Control by Avoiding Lymphopenia?. Journal of Thoracic Oncology, 2021, 16, e39-e41.	0.5	2
13	Phase II Trial of Flaxseed to Prevent Acute Complications After Chemoradiation for Lung Cancer. Journal of Alternative and Complementary Medicine, 2021, 27, 824-831.	2.1	3
14	Characterization of a high-resolution 2D transmission ion chamber for independent validation of proton pencil beam scanning of conventional and FLASH dose delivery. Medical Physics, 2021, 48, 3948-3957.	1.6	16
15	Managing oligoprogressive malignant pleural mesothelioma with stereotactic body radiation therapy. Lung Cancer, 2021, 157, 163-164.	0.9	4
16	FLASH Proton Radiotherapy Spares Normal Epithelial and Mesenchymal Tissues While Preserving Sarcoma Response. Cancer Research, 2021, 81, 4808-4821.	0.4	77
17	Multiblock Discriminant Analysis of Integrative 18F-FDG-PET/CT Radiomics for Predicting Circulating Tumor Cells in Early-Stage Non-small Cell Lung Cancer Treated With Stereotactic Body Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2021, 110, 1451-1465.	0.4	9
18	Comparison of FLASH Proton Entrance and the Spread-Out Bragg Peak Dose Regions in the Spruing of Mouse Intestinal Crypts and in a Pancreatic Tumor Model. Cancers, 2021, 13, 4244.	1.7	48

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19	Evaluation of Light Fluence Distribution Using an IR Navigation System for HPPH-mediated Pleural Photodynamic Therapy (pPDT). <i>Photochemistry and Photobiology</i> , 2020, 96, 310-319.	1.3	16
20	Posterior Intercostal Lymph Nodes Double Recurrence and Death Risk in Malignant Pleural Mesothelioma. <i>Annals of Thoracic Surgery</i> , 2020, 110, 241-250.	0.7	5
21	Early Tumor and Nodal Response in Patients with Locally Advanced Non-Small Cell Lung Carcinoma Predict for Oncologic Outcomes in Patients Treated with Concurrent Proton Therapy and Chemotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 106, 358-368.	0.4	6
22	Reactive Oxygen Species Explicit Dosimetry for Photofrin-mediated Pleural Photodynamic Therapy. <i>Photochemistry and Photobiology</i> , 2020, 96, 340-348.	1.3	15
23	In Memoriam Jarod C. Finlay, PhD. <i>Photochemistry and Photobiology</i> , 2020, 96, 218-218.	1.3	0
24	Updating Photon-Based Normal Tissue Complication Probability Models for Pneumonitis in Patients With Lung Cancer Treated With Proton Beam Therapy. <i>Practical Radiation Oncology</i> , 2020, 10, e330-e338.	1.1	4
25	Higher Dose Volumes May Be Better for Evaluating Radiation Pneumonitis in Lung Proton Therapy Patients Compared With Traditional Photon-Based Dose Constraints. <i>Advances in Radiation Oncology</i> , 2020, 5, 943-950.	0.6	6
26	Machine learning highlights the deficiency of conventional dosimetric constraints for prevention of high-grade radiation esophagitis in non-small cell lung cancer treated with chemoradiation. <i>Clinical and Translational Radiation Oncology</i> , 2020, 22, 69-75.	0.9	9
27	Gender-based Disparities in Receipt of Care and Survival in Malignant Pleural Mesothelioma. <i>Clinical Lung Cancer</i> , 2020, 21, e583-e591.	1.1	11
28	In vivo Spectroscopic Evaluation of the Intraperitoneal Cavity in Canines. <i>Photochemistry and Photobiology</i> , 2020, 96, 426-433.	1.3	3
29	Preclinical Evaluation of Cetuximab and Benzoporphyrin Derivative-mediated Intraperitoneal Photodynamic Therapy in a Canine Model. <i>Photochemistry and Photobiology</i> , 2020, 96, 684-691.	1.3	7
30	Blood Flow Measurements Enable Optimization of Light Delivery for Personalized Photodynamic Therapy. <i>Cancers</i> , 2020, 12, 1584.	1.7	8
31	Proton-Beam Therapy: At the Heart of Cardiac Dose-Sparing in Mediastinal Radiotherapy for Thymic Carcinoma. <i>Journal of Thoracic Oncology</i> , 2020, 15, 1240-1242.	0.5	5
32	Photodynamic Therapy and Immune Checkpoint Blockade ^{â€} . <i>Photochemistry and Photobiology</i> , 2020, 96, 954-961.	1.3	54
33	Infrared navigation system for light dosimetry during pleural photodynamic therapy. <i>Physics in Medicine and Biology</i> , 2020, 65, 075006.	1.6	16
34	Light Fluence Rate and Tissue Oxygenation (S_tO_2) Distributions Within the Thoracic Cavity of Patients Receiving Intraoperative Photodynamic Therapy for Malignant Pleural Mesothelioma. <i>Photochemistry and Photobiology</i> , 2020, 96, 417-425.	1.3	5
35	Design, Implementation, and in Vivo Validation of a Novel Proton FLASH Radiation Therapy System. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 106, 440-448.	0.4	274
36	Circulating Tumor Cells Are Associated with Recurrent Disease in Patients with Early-Stage Non-Small Cell Lung Cancer Treated with Stereotactic Body Radiotherapy. <i>Clinical Cancer Research</i> , 2020, 26, 2372-2380.	3.2	41

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37	CLO20-030: Sex-Based Disparities in Receipt of Care and Survival in Malignant Pleural Mesothelioma. <i>Journal of the National Comprehensive Cancer Network: JNCCN</i> , 2020, 18, CLO20-030.	2.3	0
38	Initial Clinical Experience Treating Patients With Lung Cancer on a 6MV-Flattening-Filter-Free O-Ring Linear Accelerator. <i>Cureus</i> , 2020, 12, e10325.	0.2	1
39	Phenotypic and functional analysis of malignant mesothelioma tumor-infiltrating lymphocytes. <i>Oncolmmunology</i> , 2019, 8, e1638211.	2.1	33
40	Predicting radiation pneumonitis in locally advanced stage II–III non-small cell lung cancer using machine learning. <i>Radiotherapy and Oncology</i> , 2019, 133, 106-112.	0.3	66
41	Early Detection of Recurrence in Patients With Locally Advanced Non–Small-Cell Lung Cancer via Circulating Tumor Cell Analysis. <i>Clinical Lung Cancer</i> , 2019, 20, 384-390.e2.	1.1	20
42	Design and commissioning of an image-guided small animal radiation platform and quality assurance protocol for integrated proton and x-ray radiobiology research. <i>Physics in Medicine and Biology</i> , 2019, 64, 135013.	1.6	22
43	Lymphangitic carcinomatosis: A common radiographic manifestation of local failure following extended pleurectomy/decortication in patients with malignant pleural mesothelioma. <i>Lung Cancer</i> , 2019, 132, 94-98.	0.9	3
44	A Clinical Trial of TumorGlow to Identify Residual Disease During Pleurectomy and Decortication. <i>Annals of Thoracic Surgery</i> , 2019, 107, 224-232.	0.7	18
45	A Novel Prospective Study Assessing the Combination of Photodynamic Therapy and Proton Radiation Therapy: Safety and Outcomes When Treating Malignant Pleural Mesothelioma. <i>Photochemistry and Photobiology</i> , 2019, 95, 411-418.	1.3	19
46	Luminol Chemiluminescence Reports Photodynamic Therapy–Generated Neutrophil Activity <i>in Vivo</i> and Serves as a Biomarker of Therapeutic Efficacy. <i>Photochemistry and Photobiology</i> , 2019, 95, 430-438.	1.3	20
47	Modeling Epidermal Growth Factor Inhibitor–mediated Enhancement of Photodynamic Therapy Efficacy Using 3D Mesothelioma Cell Culture. <i>Photochemistry and Photobiology</i> , 2019, 95, 397-405.	1.3	6
48	Five-year Long-term Outcomes of Stereotactic Body Radiation Therapy for Operable Versus Medically Inoperable Stage I Non–small-cell Lung Cancer: Analysis by Operability, Fractionation Regimen, Tumor Size, and Tumor Location. <i>Clinical Lung Cancer</i> , 2019, 20, e63-e71.	1.1	36
49	First-ever Abscopal Effect after Palliative Radiotherapy and Immuno-gene Therapy for Malignant Pleural Mesothelioma. <i>Cureus</i> , 2019, 11, e4102.	0.2	17
50	Limitations in predicting the space radiation health risk for exploration astronauts. <i>Npj Microgravity</i> , 2018, 4, 8.	1.9	131
51	The Role of Advanced Imaging in Assessing Response to Definitive Chemoradiation Before Prophylactic Cranial Irradiation in Limited-Stage Small-Cell Lung Cancer. <i>Clinical Lung Cancer</i> , 2018, 19, e205-e209.	1.1	3
52	Proteasome inhibitor bortezomib is a novel therapeutic agent for focal radiation–induced osteoporosis. <i>FASEB Journal</i> , 2018, 32, 52-62.	0.2	26
53	Lesion oxygenation associates with clinical outcomes in premalignant and early stage head and neck tumors treated on a phase 1 trial of photodynamic therapy. <i>Photodiagnosis and Photodynamic Therapy</i> , 2018, 21, 28-35.	1.3	30
54	PDT dose dosimetry for Photofrin-mediated pleural photodynamic therapy (pPDT). <i>Physics in Medicine and Biology</i> , 2018, 63, 015031.	1.6	31

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55	Adjuvant, neoadjuvant, and definitive radiation therapy for malignant pleural mesothelioma. <i>Journal of Thoracic Disease</i> , 2018, 10, S2565-S2573.	0.6	18
56	Circulating Tumor Cell Assessment in Presumed Early Stage Non-Small Cell Lung Cancer Patients Treated with Stereotactic Body Radiation Therapy: A Prospective Pilot Study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, 536-542.	0.4	21
57	A preclinical model to investigate the role of surgically-induced inflammation in tumor responses to intraoperative photodynamic therapy. <i>Lasers in Surgery and Medicine</i> , 2018, 50, 440-450.	1.1	13
58	Determination of optical properties, drug concentration, and tissue oxygenation in human pleural tissue before and after Photofrin-mediated photodynamic therapy. , 2018, 10476, .		0
59	A Comparison of Dose Metrics to Predict Local Tumor Control for Photofrin-mediated Photodynamic Therapy. <i>Photochemistry and Photobiology</i> , 2017, 93, 1115-1122.	1.3	22
60	A summary of light dose distribution using an IR navigation system for Photofrin-mediated Pleural PDT. <i>Proceedings of SPIE</i> , 2017, 10047, .	0.8	6
61	Extended Pleurectomy-Decortication-Based Treatment for Advanced Stage Epithelial Mesothelioma Yielding a Median Survival of Nearly Three Years. <i>Annals of Thoracic Surgery</i> , 2017, 103, 912-919.	0.7	103
62	Suppression of Sclerostin Alleviates Radiation-Induced Bone Loss by Protecting Bone-Forming Cells and Their Progenitors Through Distinct Mechanisms. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 360-372.	3.1	88
63	The value of delayed phase enhanced imaging in malignant pleural mesothelioma. <i>Journal of Thoracic Disease</i> , 2017, 9, 2344-2349.	0.6	18
64	Radiotherapy and Photodynamic Therapy for Malignant Pleural Mesothelioma. <i>Current Cancer Research</i> , 2017, , 295-311.	0.2	3
65	PDT: What's Past Is Prologue. <i>Cancer Research</i> , 2016, 76, 2497-2499.	0.4	31
66	Toxicities and early outcomes in a phase 1 trial of photodynamic therapy for premalignant and early stage head and neck tumors. <i>Oral Oncology</i> , 2016, 55, 37-42.	0.8	27
67	Pilot and Feasibility Trial Evaluating Immuno-Gene Therapy of Malignant Mesothelioma Using Intrapleural Delivery of Adenovirus-IFN± Combined with Chemotherapy. <i>Clinical Cancer Research</i> , 2016, 22, 3791-3800.	3.2	77
68	Fluorinated Photodynamic Therapy Device Tips and their Resistance to Fouling for In Vivo Sensitizer Release. <i>Photochemistry and Photobiology</i> , 2016, 92, 166-172.	1.3	8
69	Measuring the Physiologic Properties of Oral Lesions Receiving Fractionated Photodynamic Therapy. <i>Photochemistry and Photobiology</i> , 2015, 91, 1210-1218.	1.3	18
70	An IR navigation system for pleural PDT. <i>Frontiers in Physics</i> , 2015, 3, .	1.0	18
71	Erlotinib Pretreatment Improves Photodynamic Therapy of Non-Small Cell Lung Carcinoma Xenografts via Multiple Mechanisms. <i>Cancer Research</i> , 2015, 75, 3118-3126.	0.4	41
72	Real-time treatment light dose guidance of Pleural PDT: an update. <i>Proceedings of SPIE</i> , 2015, 9308, .	0.8	9

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73	PTH1 β 34 Blocks Radiation-induced Osteoblast Apoptosis by Enhancing DNA Repair through Canonical Wnt Pathway. <i>Journal of Biological Chemistry</i> , 2015, 290, 157-167.	1.6	51
74	Dermatopathology effects of simulated solar particle event radiation exposure in the porcine model. <i>Life Sciences in Space Research</i> , 2015, 6, 21-28.	1.2	10
75	Ionizing Radiation Selectively Reduces Skin Regulatory T Cells and Alters Immune Function. <i>PLoS ONE</i> , 2014, 9, e100800.	1.1	12
76	Determination of tissue optical properties in PDT treated head and neck patients. <i>Proceedings of SPIE</i> , 2014, 8926, .	0.8	6
77	Photodynamic Therapy for Lung Cancer and Malignant Pleural Mesothelioma. <i>Seminars in Oncology</i> , 2014, 41, 820-830.	0.8	88
78	Pencil beam scanning dosimetry for large animal irradiation. <i>Journal of Radiation Research</i> , 2014, 55, 855-861.	0.8	0
79	Acute hematological effects in mice exposed to the expected doses, dose-rates, and energies of solar particle event-like proton radiation. <i>Life Sciences in Space Research</i> , 2014, 2, 86-91.	1.2	29
80	Perineural spread of malignant mesothelioma with spinal intramedullary involvement. <i>Clinical Neurology and Neurosurgery</i> , 2014, 120, 116-119.	0.6	5
81	PTH1 β 34 alleviates radiotherapy-induced local bone loss by improving osteoblast and osteocyte survival. <i>Bone</i> , 2014, 67, 33-40.	1.4	77
82	In Regard to Tang et al. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 90, 240.	0.4	0
83	Definitive surgery and intraoperative photodynamic therapy: A prospective study of local control and survival for patients with pleural dissemination of non-small cell lung cancer. , 2014, 8931, .		3
84	Real-time treatment feedback guidance of Pleural PDT. , 2013, 8568, .		8
85	Dietary Flaxseed in Non-Small Cell Lung Cancer Patients Receiving Chemoradiation. <i>Journal of Pulmonary & Respiratory Medicine</i> , 2013, 03, 154.	0.1	2
86	Photodynamic therapy activated signaling from epidermal growth factor receptor and STAT3. <i>Cancer Biology and Therapy</i> , 2012, 13, 1463-1470.	1.5	44
87	A real-time treatment guidance system for pleural PDT. <i>Proceedings of SPIE</i> , 2012, 8210, .	0.8	5
88	Adapting Preclinical Concepts for Use in Clinical Trials of Serosal and Interstitial Photodynamic Therapy. <i>Journal of the National Comprehensive Cancer Network: JNCCN</i> , 2012, 10, S-18-S-22.	2.3	1
89	Radical Pleurectomy and Intraoperative Photodynamic Therapy for Malignant Pleural Mesothelioma. <i>Annals of Thoracic Surgery</i> , 2012, 93, 1658-1667.	0.7	132
90	Photodynamic therapy of cancer: An update. <i>Ca-A Cancer Journal for Clinicians</i> , 2011, 61, 250-281.	157.7	3,902

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91	Photodynamic Therapy and the Evolution of a Lung-Sparing Surgical Treatment for Mesothelioma. <i>Annals of Thoracic Surgery</i> , 2011, 91, 1738-1745.	0.7	61
92	An IR navigation system for real-time treatment guidance of pleural PDT. <i>Proceedings of SPIE</i> , 2011, 7886, .	0.8	11
93	Flaxseed Lignan Complex (FLC) Enriched in Secoisolariciresinol Diglucoside (SDG) Prolongs Survival And Protects Against Radiation-Induced Pneumonopathy In Mice. <i>FASEB Journal</i> , 2011, 25, 106.5.	0.2	0
94	Using electron beam radiation to simulate the dose distribution for whole body solar particle event proton exposure. <i>Radiation and Environmental Biophysics</i> , 2010, 49, 715-721.	0.6	26
95	Pleural Malignancies. <i>Seminars in Radiation Oncology</i> , 2010, 20, 208-214.	1.0	12
96	In vivo light dosimetry for HPPH-mediated pleural PDT. <i>Proceedings of SPIE</i> , 2010, 7551, .	0.8	9
97	Spectroscopic evaluation of photodynamic therapy of the intraperitoneal cavity. , 2010, 7551, .		1
98	A heterogeneous optimization algorithm for reacted singlet oxygen for interstitial PDT. , 2010, 7551, .		2
99	In vivo light dosimetry for pleural PDT. , 2009, 7164, .		16
100	A heterogeneous algorithm for PDT dose optimization for prostate. , 2009, 7164, 71640B.		3
101	Oncogenic K-Ras Signals through Epidermal Growth Factor Receptor and Wild-Type H-Ras to Promote Radiation Survival in Pancreatic and Colorectal Carcinoma Cells. <i>Neoplasia</i> , 2007, 9, 341-348.	2.3	82
102	Immunotherapy and radiation therapy for malignant pleural mesothelioma. <i>Translational Lung Cancer Research</i> , 2007, 6, 212-219.	1.3	31
103	Intraperitoneal Photodynamic Therapy. , 2007, 134, 493-514.		42
104	Dietary Flaxseed Prevents Fibrosis And Oxidative Lung Damage And Improves Mouse Survival In Experimental Thoracic Radiation Injury. <i>FASEB Journal</i> , 2007, 21, A172.	0.2	1
105	Dietary Flaxseed Reverses Radiation-Induced Alterations Of Gene Expression In Murine Lungs. <i>FASEB Journal</i> , 2007, 21, A61.	0.2	0
106	Radiosensitizing effects of the prenyltransferase inhibitor AZD3409 against RAS mutated cell lines.. <i>Cancer Biology and Therapy</i> , 2006, 5, 1206-1210.	1.5	11
107	Molecular targets for altering radiosensitivity: Lessons from Ras as a pre-clinical and clinical model. <i>Critical Reviews in Oncology/Hematology</i> , 2005, 55, 103-116.	2.0	20
108	C225 and PDT Combination Therapy for Ovarian Cancer: The Play's the Thing. <i>Journal of the National Cancer Institute</i> , 2005, 97, 1488-1489.	3.0	14

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109	Pancreatic Cancer Cell Radiation Survival and Prenyltransferase Inhibition: The Role of K-Ras. <i>Cancer Research</i> , 2005, 65, 8433-8441.	0.4	69
110	Effectiveness of the SurePath liquid-based Pap test in automated screening and in detection of HSIL. <i>Diagnostic Cytopathology</i> , 2003, 29, 250-255.	0.5	18