

Kei Nakai

List of Publications by Year in descending order

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65
papers

1,932
citations

331670

21
h-index

254184

43
g-index

67
all docs

67
docs citations

67
times ranked

1532
citing authors

#	ARTICLE	IF	CITATIONS
1	Effectiveness of BNCT for recurrent head and neck malignancies. <i>Applied Radiation and Isotopes</i> , 2004, 61, 1069-1073.	1.5	265
2	Boron neutron capture therapy for glioblastoma. <i>Cancer Letters</i> , 2008, 262, 143-152.	7.2	129
3	Gadolinium neutron-capture therapy using novel gadopentetic acid-chitosan complex nanoparticles: in vivo growth suppression of experimental melanoma solid tumor. <i>Cancer Letters</i> , 2000, 150, 177-182.	7.2	127
4	Modified boron neutron capture therapy for malignant gliomas performed using epithermal neutron and two boron compounds with different accumulation mechanisms: an efficacy study based on findings on neuroimages. <i>Journal of Neurosurgery</i> , 2005, 103, 1000-1009.	1.6	118
5	Boron Neutron Capture Therapy for Newly Diagnosed Glioblastoma. <i>Journal of Radiation Research</i> , 2009, 50, 51-60.	1.6	114
6	Survival benefit of Boron neutron capture therapy for recurrent malignant gliomas. <i>Journal of Neuro-Oncology</i> , 2009, 91, 199-206.	2.9	114
7	First clinical case of boron neutron capture therapy for head and neck malignancies using ¹⁸ F-BPA PET. <i>Head and Neck</i> , 2006, 28, 850-855.	2.0	111
8	Tumor-specific targeting of sodium borocaptate (BSH) to malignant glioma by transferrin-PEG liposomes: a modality for boron neutron capture therapy. <i>Journal of Neuro-Oncology</i> , 2008, 87, 287-294.	2.9	87
9	The acceleration of boron neutron capture therapy using multi-linked mercaptoundecahydrododecaborate (BSH) fused cell-penetrating peptide. <i>Biomaterials</i> , 2014, 35, 3396-3405.	11.4	78
10	Block copolymer-boron cluster conjugate for effective boron neutron capture therapy of solid tumors. <i>Journal of Controlled Release</i> , 2017, 254, 1-9.	9.9	70
11	Boron neutron capture therapy for newly diagnosed glioblastoma. <i>Radiotherapy and Oncology</i> , 2009, 91, 80-84.	0.6	69
12	Maleimide-functionalized closo-dodecaborate albumin conjugates (MID-AC): Unique ligation at cysteine and lysine residues enables efficient boron delivery to tumor for neutron capture therapy. <i>Journal of Controlled Release</i> , 2016, 237, 160-167.	9.9	56
13	Phase II clinical study of boron neutron capture therapy combined with X-ray radiotherapy/temozolomide in patients with newly diagnosed glioblastoma multiforme—Study design and current status report. <i>Applied Radiation and Isotopes</i> , 2011, 69, 1796-1799.	1.5	47
14	The Effects of Boron Neutron Capture Therapy on Liver Tumors and Normal Hepatocytes in Mice. <i>Japanese Journal of Cancer Research</i> , 2000, 91, 1058-1064.	1.7	42
15	A Critical Review of Radiation Therapy: From Particle Beam Therapy (Proton, Carbon, and BNCT) to Beyond. <i>Journal of Personalized Medicine</i> , 2021, 11, 825.	2.5	37
16	Gait training of subacute stroke patients using a hybrid assistive limb: a pilot study. <i>Disability and Rehabilitation: Assistive Technology</i> , 2017, 12, 197-204.	2.2	36
17	Evaluation of a Novel Boron-Containing Î±-d-Mannopyranoside for BNCT. <i>Cells</i> , 2020, 9, 1277.	4.1	35
18	The voluntary driven exoskeleton Hybrid Assistive Limb (HAL) for postoperative training of thoracic ossification of the posterior longitudinal ligament: a case report. <i>Journal of Spinal Cord Medicine</i> , 2017, 40, 361-367.	1.4	29

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19	Radiobiological response of U251MG, CHO-K1 and V79 cell lines to accelerator-based boron neutron capture therapy. <i>Journal of Radiation Research</i> , 2018, 59, 101-107.	1.6	29
20	Photodynamic Diagnosis Using 5-aminolevulinic Acid in 41 Biopsies for Primary Central Nervous System Lymphoma. <i>Photochemistry and Photobiology</i> , 2015, 91, 1452-1457.	2.5	28
21	Impact of intra-arterial administration of boron compounds on dose-volume histograms in boron neutron capture therapy for recurrent head-and-neck tumors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 66, 1523-1527.	0.8	23
22	Synthesis and evaluation of a novel liposome containing BPA-peptide conjugate for BNCT. <i>Applied Radiation and Isotopes</i> , 2009, 67, S88-S90.	1.5	20
23	Reactor-based boron neutron capture therapy for 44 cases of recurrent and refractory high-grade meningiomas with long-term follow-up. <i>Neuro-Oncology</i> , 2022, 24, 90-98.	1.2	16
24	Exophytic Cerebellar Glioblastoma in the Cerebellopontine Angle: Case Report and Review of the Literature. <i>Journal of Neurological Surgery Reports</i> , 2014, 75, e67-e72.	0.6	15
25	The Hybrid Assistive Limb® intervention for a postoperative patient with spinal dural arteriovenous fistula and chronic spinal cord injury: A case study. <i>Journal of Spinal Cord Medicine</i> , 2018, 41, 710-717.	1.4	15
26	Proton beam therapy for hepatocellular carcinoma associated with inferior vena cava tumor thrombus. <i>Journal of Cancer Research and Clinical Oncology</i> , 2020, 146, 711-720.	2.5	15
27	Bevacizumab in Japanese patients with malignant glioma: from basic research to clinical trial. <i>OncoTargets and Therapy</i> , 2014, 7, 1551.	2.0	14
28	Response of quiescent and total tumor cells in solid tumors to neutrons with various cadmium ratios. <i>International Journal of Radiation Oncology Biology Physics</i> , 1998, 41, 1163-1170.	0.8	12
29	Variability in amplitude and stimulation threshold values in motor evoked potential (MEP) monitoring during the resection of brain lesions. <i>Clinical Neurophysiology</i> , 2015, 126, 1271-1278.	1.5	12
30	Rosette-forming glioneuronal tumor originating in the hypothalamus. <i>Brain Tumor Pathology</i> , 2015, 32, 291-296.	1.7	12
31	Proton Beam Therapy for Local Recurrence of Rectal Cancer. <i>Anticancer Research</i> , 2021, 41, 3589-3595.	1.1	11
32	Responses of Total and Quiescent Cell Populations in Solid Tumors to Boron and Gadolinium Neutron Capture Reaction Using Neutrons with Two Different Energy Spectra. <i>Japanese Journal of Cancer Research</i> , 1998, 89, 81-88.	1.7	10
33	Enhancement of Cancer Cell-Killing Effects of Boron Neutron Capture Therapy by Manipulating the Expression of L-Type Amino Acid Transporter 1. <i>Radiation Research</i> , 2021, 196, 17-22.	1.5	10
34	An Analysis of Vertebral Body Growth after Proton Beam Therapy for Pediatric Cancer. <i>Cancers</i> , 2021, 13, 349.	3.7	9
35	A brain phantom for motion-corrected PROPELLER showing image contrast and construction similar to those of in vivo MRI. <i>Magnetic Resonance Imaging</i> , 2017, 36, 32-39.	1.8	8
36	Gold Nanoparticles Permit In Situ Absorbed Dose Evaluation in Boron Neutron Capture Therapy for Malignant Tumors. <i>Pharmaceutics</i> , 2021, 13, 1490.	4.5	8

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37	A Novel Boron Lipid to Modify Liposomal Surfaces for Boron Neutron Capture Therapy. <i>Cells</i> , 2021, 10, 3421.	4.1	8
38	Intra-tumor distribution of metallofullerene using micro-particle induced X-ray emission (PIXE). <i>Applied Radiation and Isotopes</i> , 2014, 88, 114-117.	1.5	7
39	Difference in BPA uptake between glioma stem-like cells and their cancerous cells. <i>Applied Radiation and Isotopes</i> , 2020, 164, 109234.	1.5	7
40	Light flashes during proton and photon radiotherapy: A multicenter prospective observational study. <i>Technical Innovations and Patient Support in Radiation Oncology</i> , 2021, 20, 41-45.	1.9	7
41	Feasibility of boron neutron capture therapy for malignant spinal tumors. <i>Applied Radiation and Isotopes</i> , 2009, 67, S43-S46.	1.5	6
42	Detection of DNA double-strand breaks in boron neutron capture reaction. <i>Applied Radiation and Isotopes</i> , 2015, 106, 185-188.	1.5	6
43	Opportunities for Using an Accelerator-Based Epithermal Neutron Source for Boron Neutron Capture Therapy. <i>Bio-Medical Engineering</i> , 2018, 52, 73-76.	0.5	6
44	Improvement of Long-term Results with Neoadjuvant Chemotherapy and Radiotherapy for Central Nervous System Germinoma. <i>World Neurosurgery</i> , 2015, 84, 846-854.	1.3	5
45	Folate-appended cyclodextrin improves the intratumoral accumulation of existing boron compounds.. <i>Applied Radiation and Isotopes</i> , 2020, 163, 109201.	1.5	5
46	Olfactory Sensations During Proton and Photon Radiotherapy: A Multicenter Prospective Observational Study. <i>Cureus</i> , 2022, 14, e22964.	0.5	5
47	Swallowscope: A smartphone based device for the assessment of swallowing ability. , 2014, , .		4
48	Intracellular boron accumulation in CHO-K1 cells using amino acid transport control. <i>Applied Radiation and Isotopes</i> , 2014, 88, 99-103.	1.5	4
49	Transitions of Liver and Biliary Enzymes during Proton Beam Therapy for Hepatocellular Carcinoma. <i>Cancers</i> , 2020, 12, 1840.	3.7	4
50	Optimization of preparation methods for high loading content and high encapsulation efficiency of BSH into liposomes. <i>Applied Radiation and Isotopes</i> , 2021, 169, 109260.	1.5	4
51	Boron analysis for neutron capture therapy using particle-induced gamma-ray emission. <i>Applied Radiation and Isotopes</i> , 2015, 106, 166-170.	1.5	3
52	Acute toxicity and patient-reported symptom score after conventional versus moderately hypofractionated proton therapy for prostate cancer. <i>Journal of Medical Radiation Sciences</i> , 2022, 69, 198-207.	1.5	3
53	Abnormal sensation during total body irradiation: a prospective observational study. <i>Journal of Radiation Research</i> , 0, , .	1.6	3
54	Robotic rehabilitation of the paralyzed upper limb for a stroke patient using the single-joint hybrid assistive limb: a case study assessed by accelerometer on the wrist. <i>Journal of Physical Therapy Science</i> , 2020, 32, 192-196.	0.6	2

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55	Proton beam therapy for a giant hepatic hemangioma: A case report and literature review. <i>Clinical and Translational Radiation Oncology</i> , 2021, 27, 152-156.	1.7	2
56	Long-term clinical outcomes of patients receiving proton beam therapy for caudate lobe hepatocellular carcinoma. <i>Journal of Radiation Research</i> , 2021, 62, 682-687.	1.6	2
57	Risk factors for venous thromboembolism induced by prolonged bed rest during interstitial brachytherapy for gynecological cancer: a retrospective study. <i>Radiation Oncology</i> , 2021, 16, 121.	2.7	2
58	Boron analysis and imaging of cells with 2-hr BPA exposure by using micro-proton particle-induced gamma-ray emission (PIGE). <i>Applied Radiation and Isotopes</i> , 2020, 165, 109334.	1.5	1
59	Radiation Therapy for Grade 3 Gliomas: Correlation of MRI Findings With Prognosis. <i>Cureus</i> , 2021, 13, e16887.	0.5	1
60	Effect of acupuncture on swallowing function in elderly individuals analyzed by swallowing sound using the newly-developed "Swallowscope". <i>Zen Nihon Shinkyu Gakkai Zasshi (Journal of the Japan)</i> Tj ETQq0 0 0 rgBT1/Overlock 10 Tf 50		
61	Design, Synthesis and Biological Evaluation of Boron-Containing Macrocyclic Polyamine Dimers and Their Zinc(II) Complexes for Boron Neutron Capture Therapy. <i>European Journal of Inorganic Chemistry</i> , 2022, 2022, .	2.0	1
62	A Surgical Technique for Idiopathic Spinal Cord Herniation : the Hammock Method. <i>Spinal Surgery</i> , 2011, 25, 73-74.	0.0	0
63	Photon or Proton Therapy for Adolescent and Young Adult Tumors Focused on Long-Term Survivors. <i>Cureus</i> , 2021, 13, e14627.	0.5	0
64	A Case of Nondysraphic Intramedullary Spinal Cord Lipoma. <i>Spinal Surgery</i> , 2009, 23, 80-84.	0.0	0
65	Clinical study of robot suit HAL for patients with stroke in the acute phase. <i>Nosotchu</i> , 2018, 40, 112-116.	0.1	0