

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	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
2	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
3	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
4	Olfactory Sensations During Proton and Photon Radiotherapy: A Multicenter Prospective Observational Study. <i>Cureus</i> , 2022, 14, e22964.	0.5	5
5	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
6	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
7	Photon or Proton Therapy for Adolescent and Young Adult Tumors Focused on Long-Term Survivors. <i>Cureus</i> , 2021, 13, e14627.	0.5	0
8	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
9	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
10	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
11	Proton Beam Therapy for Local Recurrence of Rectal Cancer. <i>Anticancer Research</i> , 2021, 41, 3589-3595.	1.1	11
12	Radiation Therapy for Grade 3 Gliomas: Correlation of MRI Findings With Prognosis. <i>Cureus</i> , 2021, 13, e16887.	0.5	1
13	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
14	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
15	An Analysis of Vertebral Body Growth after Proton Beam Therapy for Pediatric Cancer. <i>Cancers</i> , 2021, 13, 349.	3.7	9
16	A Novel Boron Lipid to Modify Liposomal Surfaces for Boron Neutron Capture Therapy. <i>Cells</i> , 2021, 10, 3421.	4.1	8
17	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
18	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

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19	Folate-appended cyclodextrin improves the intratumoral accumulation of existing boron compounds.. Applied Radiation and Isotopes, 2020, 163, 109201.	1.5	5
20	Transitions of Liver and Biliary Enzymes during Proton Beam Therapy for Hepatocellular Carcinoma. Cancers, 2020, 12, 1840.	3.7	4
21	Boron analysis and imaging of cells with 2-hr BPA exposure by using micro-proton particle-induced gamma-ray emission (PIGE). Applied Radiation and Isotopes, 2020, 165, 109334.	1.5	1
22	Evaluation of a Novel Boron-Containing \hat{I} -d-Mannopyranoside for BNCT. Cells, 2020, 9, 1277.	4.1	35
23	Difference in BPA uptake between glioma stem-like cells and their cancerous cells. Applied Radiation and Isotopes, 2020, 164, 109234.	1.5	7
24	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. Journal of Physical Therapy Science, 2020, 32, 192-196.	0.6	2
25	Radiobiological response of U251MG, CHO-K1 and V79 cell lines to accelerator-based boron neutron capture therapy. Journal of Radiation Research, 2018, 59, 101-107.	1.6	29
26	The Hybrid Assistive Limb [®] intervention for a postoperative patient with spinal dural arteriovenous fistula and chronic spinal cord injury: A case study. Journal of Spinal Cord Medicine, 2018, 41, 710-717.	1.4	15
27	Opportunities for Using an Accelerator-Based Epithelial Neutron Source for Boron Neutron Capture Therapy. Bio-Medical Engineering, 2018, 52, 73-76.	0.5	6
28	Clinical study of robot suit HAL for patients with stroke in the acute phase. Nosotchu, 2018, 40, 112-116.	0.1	0
29	Gait training of subacute stroke patients using a hybrid assistive limb: a pilot study. Disability and Rehabilitation: Assistive Technology, 2017, 12, 197-204.	2.2	36
30	The voluntary driven exoskeleton Hybrid Assistive Limb (HAL) for postoperative training of thoracic ossification of the posterior longitudinal ligament: a case report. Journal of Spinal Cord Medicine, 2017, 40, 361-367.	1.4	29
31	Block copolymer-boron cluster conjugate for effective boron neutron capture therapy of solid tumors. Journal of Controlled Release, 2017, 254, 1-9.	9.9	70
32	A brain phantom for motion-corrected PROPELLER showing image contrast and construction similar to those of in vivo MRI. Magnetic Resonance Imaging, 2017, 36, 32-39.	1.8	8
33	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. Journal of Controlled Release, 2016, 237, 160-167.	9.9	56
34	Effect of acupuncture on swallowing function in elderly individuals analyzed by swallowing sound using the newly-developed "Swallowscope". Zen Nihon Shinkyu Gakkai Zasshi (Journal of the Japan Tj ETQq0 0 0 rg01/Overlock 10 Tf 50		
35	Photodynamic Diagnosis Using δ -Aminolevulinic Acid in 41 Biopsies for Primary Central Nervous System Lymphoma. Photochemistry and Photobiology, 2015, 91, 1452-1457.	2.5	28
36	Variability in amplitude and stimulation threshold values in motor evoked potential (MEP) monitoring during the resection of brain lesions. Clinical Neurophysiology, 2015, 126, 1271-1278.	1.5	12

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37	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
38	Rosette-forming glioneuronal tumor originating in the hypothalamus. <i>Brain Tumor Pathology</i> , 2015, 32, 291-296.	1.7	12
39	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
40	Detection of DNA double-strand breaks in boron neutron capture reaction. <i>Applied Radiation and Isotopes</i> , 2015, 106, 185-188.	1.5	6
41	Bevacizumab in Japanese patients with malignant glioma: from basic research to clinical trial. <i>OncoTargets and Therapy</i> , 2014, 7, 1551.	2.0	14
42	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
43	Swallowscope: A smartphone based device for the assessment of swallowing ability. , 2014, , .		4
44	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
45	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
46	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
47	A Surgical Technique for Idiopathic Spinal Cord Herniation : the Hammock Method. <i>Spinal Surgery</i> , 2011, 25, 73-74.	0.0	0
48	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
49	Boron Neutron Capture Therapy for Newly Diagnosed Glioblastoma. <i>Journal of Radiation Research</i> , 2009, 50, 51-60.	1.6	114
50	Survival benefit of Boron neutron capture therapy for recurrent malignant gliomas. <i>Journal of Neuro-Oncology</i> , 2009, 91, 199-206.	2.9	114
51	Feasibility of boron neutron capture therapy for malignant spinal tumors. <i>Applied Radiation and Isotopes</i> , 2009, 67, S43-S46.	1.5	6
52	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
53	Boron neutron capture therapy for newly diagnosed glioblastoma. <i>Radiotherapy and Oncology</i> , 2009, 91, 80-84.	0.6	69
54	A Case of Nondysraphic Intramedullary Spinal Cord Lipoma. <i>Spinal Surgery</i> , 2009, 23, 80-84.	0.0	0

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55	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
56	Boron neutron capture therapy for glioblastoma. <i>Cancer Letters</i> , 2008, 262, 143-152.	7.2	129
57	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
58	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
59	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
60	Effectiveness of BNCT for recurrent head and neck malignancies. <i>Applied Radiation and Isotopes</i> , 2004, 61, 1069-1073.	1.5	265
61	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
62	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
63	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
64	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
65	Abnormal sensation during total body irradiation: a prospective observational study. <i>Journal of Radiation Research</i> , 0, , .	1.6	3