

# Yoshiyuki Iwata

## List of Publications by Year in descending order

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131  
papers

2,368  
citations

186209

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265120

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133  
all docs

133  
docs citations

133  
times ranked

1725  
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of the NIRS fast scanning system for heavy-ion radiotherapy. <i>Medical Physics</i> , 2010, 37, 5672-5682.	1.6	144
2	A new approach for measuring the muon anomalous magnetic moment and electric dipole moment. <i>Progress of Theoretical and Experimental Physics</i> , 2019, 2019, .	1.8	112
3	Investigation of Single-Event Damages on Silicon Carbide (SiC) Power MOSFETs. <i>IEEE Transactions on Nuclear Science</i> , 2014, 61, 1924-1928.	1.2	102
4	Polyethylene as a radiation shielding standard in simulated cosmic-ray environments. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2006, 252, 319-332.	0.6	89
5	Design of a superconducting rotating gantry for heavy-ion therapy. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2012, 15, .	1.8	89
6	Multiple-energy operation with extended flattops at HIMAC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 624, 33-38.	0.7	72
7	New Accelerator Facility for Carbon-Ion Cancer-Therapy. <i>Journal of Radiation Research</i> , 2007, 48, A43-A54.	0.8	65
8	Lunar soil as shielding against space radiation. <i>Radiation Measurements</i> , 2009, 44, 163-167.	0.7	63
9	Fragmentation cross sections of $^{28}\text{Si}$ at beam energies from to. <i>Nuclear Physics A</i> , 2007, 784, 341-367.	0.6	59
10	Fragmentation cross sections of 600 MeV/nucleon $^{20}\text{Ne}$ elemental targets. <i>Physical Review C</i> , 2001, 64, .	1.1	52
11	Fragmentation cross sections of 290 and 400 MeV/nucleon beams on elemental targets. <i>Physical Review C</i> , 2007, 76, .	1.1	44
12	A large-area, position-sensitive neutron detector with neutron/ $\beta$ -ray discrimination capabilities. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1997, 401, 329-344.	0.7	42
13	Cross Section for the Astrophysical $^{14}\text{C}(n, \beta)^{15}\text{C}$ Reaction via the Inverse Reaction. <i>Astrophysical Journal</i> , 2002, 570, 926-933.	1.6	40
14	E1 strength of the subthreshold $3/2^+$ state in $^{15}\text{O}$ studied by Coulomb excitation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 579, 265-270.	1.5	40
15	Double-differential cross sections for the neutron production from heavy-ion reactions at energies $E/A=290\text{--}600\text{ MeV}$ . <i>Physical Review C</i> , 2001, 64, .	1.1	38
16	Fragmentation cross sections of medium-energy beams on elemental targets. <i>Physical Review C</i> , 2007, 76, .	1.1	38
17	Magnetisation and field quality of a cosine-theta dipole magnet wound with coated conductors for rotating gantry for hadron cancer therapy. <i>Superconductor Science and Technology</i> , 2016, 29, 024006.	1.8	35
18	Fragmentation of $^{14}\text{C}$ at beam energies from to. <i>Nuclear Physics A</i> , 2007, 784, 341-367.	1.1	34

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19	Experimental validation of stochastic microdosimetric kinetic model for multi-ion therapy treatment planning with helium-, carbon-, oxygen-, and neon-ion beams. <i>Physics in Medicine and Biology</i> , 2020, 65, 045005.	1.6	34
20	Dissociation of $^6\text{He}$ . <i>Physical Review C</i> , 2002, 65, .	1.1	32
21	Interdigital $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \text{H} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -mode drift-tube linac design with alternative phase focusing for muon linac. <i>Physical Review Accelerators and Beams</i> , 2016, 19, .	0.6	32
22	Alternating-phase-focused IH-DTL for an injector of heavy-ion medical accelerators. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 569, 685-696.	0.7	31
23	Single-Event Damage Observed in GaN-on-Si HEMTs for Power Control Applications. <i>IEEE Transactions on Nuclear Science</i> , 2018, 65, 1956-1963.	1.2	31
24	Neutron cross-talk in a multi-detector system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1997, 397, 380-390.	0.7	30
25	Calibration and Characterization of the Radiation Assessment Detector (RAD) on Curiosity. <i>Space Science Reviews</i> , 2016, 201, 201-233.	3.7	30
26	Dissociation of $^8\text{He}$ . <i>Physical Review C</i> , 2000, 62, .	1.1	29
27	Beam commissioning of a superconducting rotating-gantry for carbon-ion radiotherapy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 834, 71-80.	0.7	29
28	Isobaric analog state of $^{14}\text{Be}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 515, 255-260.	1.5	28
29	New treatment facility for heavy-ion cancer therapy at HIMAC. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2008, 266, 2182-2185.	0.6	28
30	Experimental studies of systematic multiple-energy operation at HIMAC synchrotron. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2014, 331, 243-247.	0.6	28
31	The Response of a Spherical Tissue-Equivalent Proportional Counter to Iron Particles from 200 to 1000 MeV/nucleon. <i>Radiation Research</i> , 2002, 157, 350-360.	0.7	26
32	Molecular states in neutron-rich beryllium isotopes. <i>Nuclear Physics A</i> , 2004, 738, 337-341.	0.6	26
33	Development of NIRS pencil beam scanning system for carbon ion radiotherapy. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 406, 361-367.	0.6	25
34	Development of a superconducting rotating-gantry for heavy-ion therapy. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2013, 317, 793-797.	0.6	24
35	Performance of a compact injector for heavy-ion medical accelerators. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 572, 1007-1021.	0.7	23
36	Measurement of the $^8\text{Li}(n, \hat{p})^9\text{Li}$ cross section at astrophysical energies by reverse kinematics. <i>Physical Review C</i> , 1998, 57, 959-966.	1.1	22

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37	Signatures of volatiles in the lunar proton albedo. <i>Icarus</i> , 2016, 273, 25-35.	1.1	22
38	Performance of the HIMAC beam control system using multiple-energy synchrotron operation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 406, 347-351.	0.6	22
39	Development of Carbon-Ion Radiotherapy Facilities at NIRS. <i>IEEE Transactions on Applied Superconductivity</i> , 2018, 28, 1-7.	1.1	22
40	Development of Curved Combined-Function Superconducting Magnets for a Heavy-Ion Rotating-Gantry. <i>IEEE Transactions on Applied Superconductivity</i> , 2014, 24, 1-5.	1.1	21
41	Progress of Research and Development of Fundamental Technologies for Accelerator Magnets Using Coated Conductors. <i>IEEE Transactions on Applied Superconductivity</i> , 2013, 23, 4601905-4601905.	1.1	20
42	Strongly-suppressed post-Coulomb acceleration in non-resonant breakup of $^7\text{Li}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 416, 43-49.	1.5	19
43	Measurements of galactic cosmic ray shielding with the CRaTER instrument. <i>Space Weather</i> , 2013, 11, 284-296.	1.3	19
44	The Response of a Spherical Tissue-Equivalent Proportional Counter to Different Ions Having Similar Linear Energy Transfer. <i>Radiation Research</i> , 2004, 161, 64-71.	0.7	18
45	Secondary Neutron-Production Cross Sections from Heavy-Ion Interactions between 230 and 600 MeV/Nucleon. <i>Nuclear Science and Engineering</i> , 2007, 157, 142-158.	0.5	18
46	The deep space galactic cosmic ray lineal energy spectrum at solar minimum. <i>Space Weather</i> , 2013, 11, 361-368.	1.3	18
47	Progress of Fundamental Technology R&D Toward Accelerator Magnets Using Coated Conductors in S-Innovation Program. <i>IEEE Transactions on Applied Superconductivity</i> , 2015, 25, 1-5.	1.1	18
48	PHITS $\alpha$ benchmark of partial charge-changing cross sections for intermediate-mass systems. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2007, 254, 30-38.	0.6	17
49	Recent progress of HIMAC for sophisticated heavy-ion cancer radiotherapy. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2014, 331, 6-9.	0.6	17
50	Development of beam current control system in RF-knockout slow extraction. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2011, 269, 2915-2918.	0.6	16
51	Astrophysical reaction rate for the $^8\text{Li}(n, \hat{t})^9\text{Li}$ reaction. <i>Physical Review C</i> , 2003, 67, .	1.1	15
52	Acceleration of high current fully stripped carbon ion beam by direct injection scheme. <i>Review of Scientific Instruments</i> , 2006, 77, 03B305.	0.6	15
53	Design of Superconducting Magnets for a Compact Carbon Gantry. <i>IEEE Transactions on Applied Superconductivity</i> , 2016, 26, 1-4.	1.1	15
54	Recent progress and future plans of heavy-ion cancer radiotherapy with HIMAC. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 406, 374-378.	0.6	15

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55	Enhancement of biological effectiveness of carbon-ion beams by applying a longitudinal magnetic field. <i>International Journal of Radiation Biology</i> , 2019, 95, 720-724.	1.0	15
56	Off-line correction for excessive constant-fraction-discriminator walk in neutron time-of-flight experiments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 522, 495-503.	0.7	14
57	Design study of compact medical fixed-field alternating-gradient accelerators. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2004, 7, .	1.8	13
58	Design of carbon therapy facility based on 10 years experience at HIMAC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 562, 1038-1041.	0.7	13
59	Secondary neutron-production cross sections from heavy-ion interactions in composite targets. <i>Physical Review C</i> , 2006, 73, .	1.1	13
60	Test of weak and strong factorization in nucleus-nucleus collisions at several hundred MeV/nucleon. <i>Nuclear Physics A</i> , 2007, 791, 434-450.	0.6	12
61	Carbon-ion radiotherapy: clinical aspects and related dosimetry. <i>Radiation Protection Dosimetry</i> , 2009, 137, 149-155.	0.4	12
62	Recent progress of a superconducting rotating-gantry for carbon-ion radiotherapy. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 406, 338-342.	0.6	12
63	Development of an HTS Accelerator Magnet With REBCO Coils for Tests at HIMAC Beam Line. <i>IEEE Transactions on Applied Superconductivity</i> , 2019, 29, 1-5.	1.1	12
64	Design study of a rotating gantry for the HIMAC new treatment facility. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2008, 266, 2186-2189.	0.6	11
65	Comparison of two liquid scintillators used for neutron detection. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2000, 440, 241-244.	0.7	10
66	The response of a spherical tissue-equivalent proportional counter to different heavy ions having similar velocities. <i>Radiation Measurements</i> , 2006, 41, 1227-1234.	0.7	10
67	Development of a compact ECR ion source for various ion production. <i>Review of Scientific Instruments</i> , 2016, 87, 02C110.	0.6	10
68	New technologies for carbon-ion radiotherapy – Developments at the National Institute of Radiological Sciences, QST, Japan. <i>Radiation Physics and Chemistry</i> , 2019, 162, 90-95.	1.4	10
69	Estimating the biological effects of helium, carbon, oxygen, and neon ion beams using 3D silicon microdosimeters. <i>Physics in Medicine and Biology</i> , 2021, 66, 045017.	1.6	10
70	Overview of secondary neutron production relevant to shielding in space. <i>Radiation Protection Dosimetry</i> , 2005, 116, 140-143.	0.4	9
71	Model cavity of an alternating-phase-focused IH-DTL. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 566, 256-263.	0.7	9
72	Reduction of uncontrollable spilled beam in RF-knockout slow extraction. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 606, 325-329.	0.7	9

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73	Design and Test Results of Superconducting Magnet for Heavy-Ion Rotating Gantry. Journal of Physics: Conference Series, 2017, 871, 012083.	0.3	9
74	Concept Design of a Superconducting Magnet for a Compact Heavy-Ion Synchrotron. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.1	9
75	Time scales from two-neutron intensity interferometry for the reaction $^{40}\text{Ar}+^{165}\text{Ho}$ at $E/A=25\text{MeV}$ . Physical Review C, 1998, 58, 2161-2166.	1.1	8
76	Two Major Factors Involved in the Reverse Dose-rate Effect for Somatic Mutation Induction are the Cell Cycle Position and LET Value. Journal of Radiation Research, 2009, 50, 441-448.	0.8	8
77	Effect of External Magnetic Fields on Biological Effectiveness of Proton Beams. International Journal of Radiation Oncology Biology Physics, 2020, 106, 597-603.	0.4	8
78	Excitation of continuum states in $^7\text{Li}$ and their decay by quantum tunneling. Nuclear Physics A, 1999, 654, 928c-931c.	0.6	7
79	Recent progress on new treatment research project at HIMAC. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 2924-2927.	0.6	7
80	Solar modulation of the deep space galactic cosmic ray lineal energy spectrum measured by CRaTER, 2009-2014. Space Weather, 2016, 14, 247-258.	1.3	7
81	Nuclear fragmentation database for GCR transport code development. Advances in Space Research, 2010, 46, 728-734.	1.2	6
82	Influence of a perpendicular magnetic field on biological effectiveness of carbon-ion beams. International Journal of Radiation Biology, 2019, 95, 1346-1350.	1.0	6
83	Development of Inter-Digital H-Mode Drift-Tube Linac Prototype With Alternative Phase Focusing for a Muon Linac in the J-PARC Muon G-2/EDM Experiment. Journal of Physics: Conference Series, 2019, 1350, 012054.	0.3	6
84	Thermal Design and Test Results of the Superconducting Magnet for a Compact Heavy-Ion Synchrotron. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.1	6
85	Application of compact electron cyclotron resonance ion source. Review of Scientific Instruments, 2008, 79, 02A328.	0.6	5
86	Development of a compact superconducting rotating-gantry for heavy-ion therapy. Journal of Radiation Research, 2014, 55, i24-i25.	0.8	5
87	Thermal Stability of Conduction-Cooled HTS Magnets for Rotating Gantry. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.1	5
88	Ion species discrimination method by linear energy transfer measurement in Fujifilm BAS-SR imaging plate. Review of Scientific Instruments, 2020, 91, 093305.	0.6	5
89	Experimental study on monitoring system of clinical beam purity in multiple-ion beam operation for heavy-ion radiotherapy. Review of Scientific Instruments, 2020, 91, 023309.	0.6	5
90	Application of lung substitute material as ripple filter for multi-ion therapy with helium-, carbon-, oxygen-, and neon-ion beams. Physics in Medicine and Biology, 2021, 66, 055002.	1.6	5

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91	Development of HTS Magnet for Rotating Gantry. <i>Physics Procedia</i> , 2016, 81, 162-165.	1.2	4
92	Experimental verification of beam switching operation for multiple-ion therapy applications at HIMAC. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2019, 459, 115-119.	0.6	4
93	Thick target neutron yields from 100- and 230-MeV/nucleon helium ions bombarding water, PMMA, and iron. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2019, 449, 62-70.	0.6	4
94	AC Loss and Shielding-Current-Induced Field in a Coated-Conductor Test Magnet for Accelerator Applications under Repeated Excitations. <i>IEEE Transactions on Applied Superconductivity</i> , 2020, 30, 1-5.	1.1	4
95	Astrophysical implications of non-resonant break-up of. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1998, 24, 1637-1640.	1.4	3
96	Fragment detection system for studies of exotic neutron-rich nuclei. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2002, 480, 598-609.	0.7	3
97	Indirect "one-side" cooling method of a magnetic-alloy-loaded rf cavity. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2004, 7, .	1.8	3
98	Investigation of single-event damages on silicon carbide (SiC) power MOSFETs. , 2013, , .		3
99	Test of Cryocooler-Cooled RE-123 Magnet on HIMAC Beam Line in S-Innovation Program. <i>IEEE Transactions on Applied Superconductivity</i> , 2019, 29, 1-5.	1.1	3
100	Soft dipole resonance in exotic nuclei?. <i>Nuclear Physics A</i> , 1996, 599, 353-365.	0.6	2
101	Improvement of the Kei2 source for a new carbon therapy facility. <i>Review of Scientific Instruments</i> , 2006, 77, 03A307.	0.6	2
102	Acceleration of heavy ions with a new RF system at HIMAC synchrotron. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2011, 269, 2886-2890.	0.6	2
103	Influence of Manufacturing Accuracy on Magnetic Field Distribution in Magnet for HTS Rotating Gantry. <i>IEEE Transactions on Applied Superconductivity</i> , 2016, 26, 1-4.	1.1	2
104	Fabrication and Excitation of a Model Magnet Using Coated Conductors for Spiral Sector FFAG Accelerators. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-5.	1.1	2
105	Emittance matching of a slow extracted beam for a rotating gantry. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 406, 229-232.	0.6	2
106	Effects of Magnetic Field Applied Just Before, During or Immediately after Carbon-Ion Beam Irradiation on its Biological Effectiveness. <i>Radiation Research</i> , 2019, 192, 662.	0.7	2
107	Method of Coulomb breakup probing primordial ${}^7\text{Li}$ synthesis. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1998, 402, 417-420.	0.7	1
108	Neutron Spectra from Intermediate-Energy Nucleus-Nucleus Reactions. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	1

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109	60 mA Carbon Beam Acceleration with DPIS. , 0, , .		1
110	Effects of voltage errors caused by gap-voltage and automatic-frequency tuning in an alternating-phase-focused linac. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2150-2156.	0.6	1
111	Compact carbon-therapy facility and next-generation irradiation scheme. Radiation Physics and Chemistry, 2008, 77, 1148-1152.	1.4	1
112	Development of Compact Electron Cyclotron Resonance Ion Source with Permanent Magnets for High-Energy Carbon-Ion Therapy. , 2008, , .		1
113	Design of a post linac for an energy upgrade of a heavy-ion injector. Nuclear Instruments & Methods in Physics Research B, 2014, 331, 10-14.	0.6	1
114	2.2.3â€fDevelopment of New Heavy-ion Radiotherapy Technologyâ€”Toward Upgrading Heavy-ion Radiotherapyâ€”. Radioisotopes, 2019, 68, 197-206.	0.1	1
115	Predicting the Biological Effects of Human Salivary Gland Tumour Cells for Scanned 4He-, 12C-, 16O-, and 20Ne-Ion Beams Using an SOI Microdosimeter. Applied Sciences (Switzerland), 2022, 12, 6148.	1.3	1
116	Final-state interactions in the system. , 1998, , .		0
117	Alternating-Phase-Focused Linac with Interdigital H-Mode Structure for Medical Injector. , 0, , .		0
118	Development of synchrotron control for Heavy-Ion Medical Accelerators. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 2901-2904.	0.6	0
119	Neutron-Production Yields from 400 MeV/Nucleon Iron Stopping in Carbon, Aluminum, Copper, and Lead Targets. Nuclear Science and Engineering, 2011, 169, 279-289.	0.5	0
120	Beam stability improvement of the HIMAC synchrotron using a feed-forward system for magnet power supplies. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 2905-2910.	0.6	0
121	Development of a new compact ECR ion source with all permanent magnets for carbon 5+ production. AIP Conference Proceedings, 2018, , .	0.3	0
122	2.2.2â€€Research for the Promotion of Carbon Therapy. Radioisotopes, 2019, 68, 179-195.	0.1	0
123	Microdosimetric study for helium-ion beam using fully 3D silicon microdosimeters. Journal of Physics: Conference Series, 2020, 1662, 012022.	0.3	0
124	Error Studies for Muon Linac in the Muon g â” 2/EDM Experiment at J-PARC. , 2021, , .		0
125	Ion Linac and Synchrotron. , 2014, , 153-168.		0
126	Study of $\hat{\pm}$ Decays in the $40\text{Ar}+232\text{Th}$ Reaction Using the RIKEN Gas-Filled Separator I-General. , 1995, , .		0



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127	Current Status of Carbon-ion Radiotherapy. Journal of the Institute of Electrical Engineers of Japan, 2017, 137, 365-368.	0.0	0
128	Research and Development of the Coil System for a Beam Transport and Irradiation Line. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 2017, 52, 234-243.	0.1	0
129	7.2.2 Secondary Neutron Production Cross Section Measurements from Heavy-mass Targets at HIMAC. Radioisotopes, 2019, 68, 553-557.	0.1	0
130	Overview of S-Innovation Project on Fundamental Technology of HTS Accelerator Magnets. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 2020, 55, 89-97.	0.1	0
131	Concept design of new compact electron cyclotron resonance ion source with permanent magnets for multi-ion radiotherapy. Journal of Physics: Conference Series, 2022, 2244, 012094.	0.3	0