

# Hiroyuki Sako

## List of Publications by Year in descending order

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165  
papers

5,472  
citations

76326

40  
h-index

82547

72  
g-index

166  
all docs

166  
docs citations

166  
times ranked

3575  
citing authors



#	ARTICLE	IF	CITATIONS
19	Production of the $\Lambda$ meson detected by low-mass electron-positron pairs in central PbAu collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2008, 78, 054901.	4.1	85
20	Kaon production in Au+Au collisions at $\sqrt{s_{NN}} = 1.6$ AGeV/c. Physical Review C, 1998, 58, 3523-3538.	2.9	81
21	Event-by-event fluctuations in mean $p_T$ and mean $T_{in}$ in $\sqrt{s_{NN}} = 130$ AGeV Au+Au collisions. Physical Review C, 2002, 66, .	2.9	79
22	Particle production in Au + Au collisions from BNL E866. Nuclear Physics A, 1996, 610, 139-152.	1.5	76
23	Universal Pion Freeze-Out in Heavy-Ion Collisions. Physical Review Letters, 2003, 90, 022301.	7.8	76
24	Centrality dependence of kaon yields in Si+Au and Au+Au collisions at relativistic energies. Physical Review C, 1999, 60, .	2.9	75
25	Centrality dependence of the high $p_T$ charged hadron suppression in Au+Au collisions at $\sqrt{s_{NN}} = 130$ AGeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 561, 82-92.	4.1	75
26	Acceleration of highly charged GeV Fe ions from a low-Z substrate by intense femtosecond laser. Physics of Plasmas, 2015, 22, .	1.9	75
27	Net Charge Fluctuations in Au+Au Interactions at $\sqrt{s_{NN}} = 130$ AGeV. Physical Review Letters, 2002, 89, 082301.	3.0	66
28	Search for disoriented chiral condensates in 158 AGeV Pb+Pb collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 420, 169-179.	4.1	60
29	Observation of the "K-pp"-like structure in the $d(\Lambda^+, K^+)$ reaction at 1.69 GeV/c. Progress of Theoretical and Experimental Physics, 2015, 2015, 21D01-0.	6.6	60
30	Semihard Scattering Unraveled from Collective Dynamics by Two-Pion Azimuthal Correlations in 158 AGeV Pb+Au Collisions. Physical Review Letters, 2004, 92, 032301.	7.8	58
31	PHENIX central arm particle ID detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 499, 508-520.	1.6	56
32	Centrality Dependence of Neutral Pion Production in 158 AGeV $^{208}\text{b}+^{208}\text{b}$ Collisions. Physical Review Letters, 1998, 81, 4087-4091.	7.8	54
33	Simultaneous multiplicity and forward energy characterization of particle spectra in Au+Au collisions at 1.6 AGeV/c. Physical Review C, 1999, 59, 2173-2188.	2.9	50
34	The CERES/NA45 radial drift Time Projection Chamber. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 593, 203-231.	1.6	49
35	Observations of Multiparticle Correlations in $\sqrt{s_{NN}} = 2.76$ TeV Au+Au Collisions at 200, 62.4, 39, and 19.6 AGeV. Physical Review C, 2008, 78, 054901.	7.8	43
36	Event-by-event fluctuations at 40, 80 and 158 AGeV/c in Pb+Au collisions. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, S1371-S1375.	3.6	42



#	ARTICLE	IF	CITATIONS
55	The centrality dependence of the source size for Au—Au collisions at the AGS. Nuclear Physics A, 1996, 610, 213-226.	1.5	17
56	Studies of high density baryon matter with high intensity heavy-ion beams at J-PARC. Nuclear Physics A, 2016, 956, 850-853.	1.5	17
57	Collective flow in 158A GeV Pb+Pb collisions. Nuclear Physics A, 1998, 638, 459c-462c.	1.5	16
58	Freeze-Out Parameters in Central 158A GeV Pb+Pb Collisions. Physical Review Letters, 1999, 83, 926-930.	7.8	16
59	First Determination of the Level Structure of an sd-Shell Hypernucleus, $\Lambda^{\text{b}}19$ . Physical Review Letters, 2018, 120, 132505.	7.8	16
60	High-resolution search for the $\Lambda^{\text{b}}$ via a pion-induced reaction at J-PARC. Physical Review C, 2014, 90, 044907.	7.8	15
61	Reaction in Momentum Range $0 < p_T < 1$ GeV/c. Nuclear Physics A, 2005, 752, 394-397.	1.5	14
62	Event-by-event fluctuations at SPS. Nuclear Physics A, 2005, 752, 394-397.	1.5	14
63	Azimuthal dependence of pion source radii in Pb+Au collisions at 158A GeV/c. Physical Review C, 2008, 78, 034904.	2.9	14
64	Multi-charged heavy ion acceleration from the ultra-intense short pulse laser system interacting with the metal target. Review of Scientific Instruments, 2014, 85, 02B904.	1.3	14
65	Missing-mass spectroscopy with the $\Lambda^{\text{b}}$ reaction to search for $\Lambda^{\text{b}}$ . Physical Review C, 2017, 96, 044907.	2.9	14
66	Proton, deuteron, and triton emission at target rapidity in Au+Au collisions at 10.20 A GeV: Spectra and directed flow. Physical Review C, 1998, 57, 1416-1427.	2.9	13
67	Measurement of inclusive charged-particle jet production in Au+Au collisions at 200 A GeV. Physical Review C, 2009, 80, 034904.	2.9	13
68	Elliptic emission of $K^+$ and $\bar{K}^0$ in 158 A GeV Pb + Pb collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 469, 30-36.	4.1	12
69	Elliptic flow of charged pions, protons and strange particles emitted in Pb+Au collisions at top SPS energy. Nuclear Physics A, 2012, 894, 41-73.	1.5	12
70	Development of a prototype GEM TPC with a gating grid for an H-dibaryon search experiment at J-PARC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 763, 65-81.	1.6	12
71	Production in $0 < p_T < 1$ GeV/c. Nuclear Physics A, 2005, 752, 394-397.	4.7	12
72	Observation of a $\Lambda^{\text{b}}$ bound state in the $12C(K^{\text{+}}, K^{\text{+}})$ reaction at 1.8 GeV/c. AIP Conference Proceedings, 2019, 2019, 020001.	0.4	12

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73	Multiparticle azimuthal correlations for extracting event-by-event elliptic and triangular flow in Au + Au collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review C, 2019, 99, .	2.9	12
74	J-PARC E27 Experiment to Search for a Nuclear Kaon Bound State $K \bar{\Lambda}^{\prime}$ pp. Few-Body Systems, 2013, 54, 1191-1194.	1.5	11
75	Nuclear Dependence of the Transverse Single-Spin Asymmetry in the Production of Charged Hadrons at Forward Rapidity in Polarized p+p, p+Al, and p+Au Collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2019, 123, 122001.	7.8	11
76	Probing Gluon Spin-Momentum Correlations in Transversely Polarized Protons through Midrapidity Isolated Direct Photons in $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2019, 123, 122001.	7.8	11
77	Nuclear Dependence of the Transverse-Single-Spin Asymmetry for Forward Neutron Production in Polarized p+A Collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2018, 120, 022001.	7.8	10
78	Measurement of the central exclusive production of charged particle pairs in proton-proton collisions at $\sqrt{s} = 200$ GeV with the STAR detector at RHIC. Journal of High Energy Physics, 2020, 2020, 1.	4.7	10
79	Measurement of the linear and mode-coupled flow harmonics in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 809, .	4.1	10
80	High-rate performance of a time projection chamber for an H-dibaryon search experiment at J-PARC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 940, 359-370.	1.6	9
81	Present Status of the J-PARC Control System. , 0, , .		8
82	Measurement of $\phi$ -meson $\phi$ -hadron two-dimensional angular correlations in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. Nuclear Physics A, 2019, 982, 959-962.	2.9	8
83	Studies of extremely dense matter in heavy-ion collisions at J-PARC. Nuclear Physics A, 2019, 982, 959-962.	1.5	7
84	A large-acceptance spectrometer for tracking in a high-multiplicity environment, based on space point measurements and high-resolution time-of-flight. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 431, 123-133.	1.6	6
85	CERES/NA45 Collaboration. Nuclear Physics A, 2006, 774, 939.	1.5	6
86	RF amplitude and phase tuning of J-PARC DTL. , 2007, , .		6
87	Results on total and elastic cross sections in proton-proton collisions at $\sqrt{s} = 200$ GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 808, 135663.	4.1	6
88	Lambda production in 40 A GeV/c Pb-Pb collisions. Journal of Physics G: Nuclear and Particle Physics, 2002, 28, 1861-1868.	3.6	5
89	XAL online model enhancements for J-PARC commissioning and operation. , 2007, , .		5
90	RF amplitude and phase tuning of J-PARC SDDL. , 2007, , .		5

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91	Measurement of jet-like correlations in Pb+Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2010, 105, 152301. overflow= scroll" xmlns:xocs= "http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tbl="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/table-struct/dtd" xmlns:xlink="http://www.w3.org/1999/xlink" style="display: inline-block; width: 100%; vertical-align: top;">	4.1	5
92	Measurements of double-helicity asymmetries in inclusive $J/\psi$ production in longitudinally polarized p+p collisions at $\sqrt{s}=510$ GeV. Physical Review D, 2016, 94, .	4.7	5
93	An event excess observed in the deeply bound region of the $^{12}\text{C}(\bar{K}^0, p)$ missing-mass spectrum. Progress of Theoretical and Experimental Physics, 2020, 2020, .	6.6	5
94	Centrality and collision system dependence of antiproton production from p+A to Au+Au collisions at AGS Energies. Nuclear Physics A, 1998, 638, 427c-430c.	1.5	4
95	Recent results from the WA98 experiment. Nuclear Physics A, 1999, 661, 191-197.	1.5	4
96	Future Heavy-Ion Program at J-PARC. , 2015, , .		4
97	Cosmic-ray test of a time-of-flight detector for double-strangeness experiments at J-PARC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 795, 39-44.	1.6	4
98	Nonperturbative-transverse-momentum broadening in dihadron angular correlations in $p$ - $p$ collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2019, 99, .	2.9	4
99	$\Lambda^0$ scattering experiment at J-PARC " results of commissioning run ". AIP Conference Proceedings, 2019, , .	0.4	4
100	Continuous timing measurement using a data-streaming DAQ system. Progress of Theoretical and Experimental Physics, 2021, 2021, .	6.6	4
101	Elliptic emission of $K^+$ in 158A GeV Pb+Pb collisions. Nuclear Physics A, 1999, 661, 464-467.	1.5	3
102	Heavy ion collisions at collider energies " Insights from PHENIX. Pramana - Journal of Physics, 2003, 60, 639-650. Search for the $\Lambda(1520)$ resonance in $p$ - $p$ collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2010, 105, 152301. overflow= "scroll" xmlns:xocs= "http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tbl="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/table-struct/dtd" xmlns:xlink="http://www.w3.org/1999/xlink" style="display: inline-block; width: 100%; vertical-align: top;">	1.8	3
103	Search for the $\Lambda(1520)$ resonance in $p$ - $p$ collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2010, 105, 152301. overflow= "scroll" xmlns:xocs= "http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tbl="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/table-struct/dtd" xmlns:xlink="http://www.w3.org/1999/xlink" style="display: inline-block; width: 100%; vertical-align: top;">	1.5	3
104	Development of a GEM-TPC for H-dibaryon search experiment at J-PARC. Journal of Instrumentation, 2014, 9, C04009-C04009.	1.2	3
105	Nonperturbative transverse-momentum-dependent effects in dihadron and direct photon-hadron angular correlations in p+p collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review D, 2018, 98, .	4.7	3
106	Transverse momentum dependent forward neutron single spin asymmetries in transversely polarized $p$ - $p$ collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review D, 2021, 103, .	4.7	3
107	High Precision $\Lambda^3$ -ray Spectroscopy of ( $\Lambda^4$ ext{He}) and ( $\Lambda^{19}$ ext{F}) at J-PARC. , 2014, , .		3
108	Measurement of Vector Meson Mass in Nuclear Matter at J-PARC. , 2019, , .		3

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109	A forward magnetic spectrometer system for high-energy heavy-ion experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 438, 282-301.	1.6	2
110	$\hat{\Gamma}^{++}$ production in 158 A GeV 208Pb+208Pb interactions at the CERN SPS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 477, 37-44.	4.1	2
111	Collective flow and HBT in Pb+Pb collisions at the CERN-SPS. Nuclear Physics A, 2000, 663-664, 729c-732c.	1.5	2
112	Low-mass lepton pair production in Pb-Au collisions at 40 A.GeV. Pramana - Journal of Physics, 2003, 60, 1067-1072.	1.8	2
113	Latest results on pair production in CERES. Nuclear Physics A, 2005, 749, 160-165.	1.5	2
114	Beam position monitor and its calibration in J-PARC LINAC. , 2007, , .		2
115	Development of commissioning software system for J-PARC LINAC. , 2007, , .		2
116	Current Status and Performance of the J-PARC Accelerators. Journal of Power and Energy Systems, 2010, 4, 218-233.	0.5	2
117	Suppression of Beam Loss at the First Arc Section in the J-PARC Linac. IEEE Transactions on Nuclear Science, 2010, 57, 2783-2789.	2.0	2
118	Search for Pentaquark $\hat{\Gamma}^{+}$ in Hadronic Reaction at J-PARC. Few-Body Systems, 2013, 54, 955-960.	1.5	2
119	Measurements of electron-induced neutrons as a tool for determination of electron temperature of fast electrons in the task of optimization laser-produced plasma ions acceleration. Review of Scientific Instruments, 2014, 85, 02A705.	1.3	2
120	Triangular flow of negative pions emitted in PbAu collisions at $s_{NN}=17.3\hat{A}$ GeV. Nuclear Physics A, 2017, 957, 99-108.	1.5	2
121	Measurement of charm and bottom production from semileptonic hadron decays in p+p collisions at $s=200\hat{A}$ GeV. Physical Review D, 2019, 99, .	4.7	2
122	Gamma-ray spectroscopy of single $\hat{\Gamma}$ -hypernuclei at J-PARC: Results and perspective. AIP Conference Proceedings, 2019, , .	0.4	2
123	Data Acquisition System in the First Commissioning Run of the J-PARC E16 Experiment. IEEE Transactions on Nuclear Science, 2021, 68, 1907-1911.	2.0	2
124	Measurement of away-side broadening with self-subtraction of flow in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. Chinese Physics C, 2020, 44, 104001.	3.7	2
125	Measurement of single spin asymmetries for wide-angle neutrons in $p$ - $p$ collisions. Physical Review Letters, 2019, 123, 022001.	4.7	2
126	Direct photon production in high-energy heavy-ion collisions. Nuclear Physics A, 1999, 654, 631c-634c.	1.5	1



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127	Particle production at the AGS: an excitation function. Nuclear Physics A, 1999, 661, 472-475.	1.5	1
128	First results from RHIC-PHENIX. Pramana - Journal of Physics, 2001, 57, 355-369.	1.8	1
129	Control System of 3 GeV Rapid Cycling Synchrotron at J-PARC. , 0, , .		1
130	Comparison of trajectory between modelling and experiment for J-PARC linac. , 2007, , .		1
131	Beam-commissioning study of high-intensity accelerators using virtual accelerator model. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 602, 320-325.	1.6	1
132	Development of a silicon micro-strip detector for tracking high intensity secondary beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 763, 399-403.	1.6	1
133	Study on $^6\text{He}$ hypernucleus by the $(\bar{\nu}, K^+)$ reaction at J-PARC. EPJ Web of Conferences, 2014, 66, 09017.	0.3	1
134	Superconducting Dipole Magnet for Strangeness Physics Program at J-PARC. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	1
135	Measurement of the Vector Meson Spectral Modification in the Nuclear Medium at J-PARC. , 2017, , .		1
136	Time Projection Chamber $\nu$ HypTPC $\nu$ for the Hadron Spectroscopy at J-PARC. , 2021, , .		1
137	Search for H-dibaryon at J-PARC with a Large Acceptance TPC. EPJ Web of Conferences, 2014, 66, 09015.	0.3	1
138	Study of Baryon Excited States in $(\bar{\nu}, 2\bar{\nu})$ Reactions at J-PARC. , 2017, , .		1
139	A $\bar{\nu}$ Scattering Experiment at J-PARC and the Analysis Status. , 2019, , .		1
140	Current status of virtual accelerator at J-PARC 3 GeV Rapid Cycling Synchrotron. , 2007, , .		0
141	The CERES Collaboration. Nuclear Physics A, 2009, 830, 945c.	1.5	0
142	Unified Beam Control System of J-PARC Linac. IEEE Transactions on Nuclear Science, 2010, 57, 1528-1535.	2.0	0
143	Development of Silicon Strip Detector for the measurement of the $\bar{\nu}$ -atom X-rays. , 2011, , .		0
144	Study of Neutron-Rich Hypernuclei by the $(\bar{\nu}, K^+)$ Reaction at J-PARC. Few-Body Systems, 2013, 54, 1235-1238.	1.5	0

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145	Progress of beam commissioning and beam loss mitigation in the J-PARC linac after the Tohoku earthquake. Journal of the Korean Physical Society, 2013, 63, 1274-1279.	0.7	0
146	Ion acceleration by the $10^{21}$ W/cm <sup>2</sup> intensity high contrast laser pulses interacting with the thin foil target. , 2014, , .		0
147	Searching for the H-Dibaryon in J-PARC with a Large Acceptance Hyperon Spectrometer. , 2015, , .		0
148	J-PARC-HI Collaboration. Nuclear Physics A, 2017, 967, 985-986.	1.5	0
149	sPHENIX Collaboration. Nuclear Physics A, 2017, 967, 1004-1006.	1.5	0
150	The First Gamma-ray Spectroscopic Study of sd-shell Hypernucleus, ( $\Lambda^{19}\text{F}$ ). , 2017, , .		0
151	Study of the ( $\Lambda$ )-Nucleus Interaction by Using the $^{12}\text{C}(\Lambda^0, p)$ Reaction. Tj ETQq1 1 0.784314 rgBT 0 Overloc	0.784314	0
152	Studies of the QCD Phase Diagram with Heavy-Ion Collisions at J-PARC. , 2018, , .		0
153	Status of J-PARC E07: Systematic study of double strangeness nuclei with hybrid emulsion method. AIP Conference Proceedings, 2019, , .	0.4	0
154	$\Lambda^0$ , and nucleus system studied by $^{12}\text{C}(\Lambda^0, p)$ spectrum. AIP Conference Proceedings, 2019, , .	0.4	0
155	J-PARC-HI Collaboration. Nuclear Physics A, 2019, 982, 1038-1039.	1.5	0
156	sPHENIX Collaboration. Nuclear Physics A, 2019, 982, 1060-1062.	1.5	0
157	Development of a time projection chamber for J-PARC hadron physics program. Journal of Physics: Conference Series, 2020, 1498, 012023.	0.4	0
158	Studies of Dense Matter in Heavy-Ion Collisions at J-PARC. , 2020, , .		0
159	Study of ( $\Lambda$ ) Identification Method by the ( $\pi^- p \rightarrow K^0 \Lambda$ ) Reaction for a ( $\Lambda$ p) Scattering Experiment at J-PARC. , 2021, , .		0
160	Current Status and Performance of the J-PARC Accelerators. , 2009, , .		0
161	Measurement of 3-Body Hadronic Reactions with HypTPC at J-PARC. , 2015, , .		0
162	J-PARC E27 Experiment to Search for a $\Lambda^0$ Bound State. , 2015, , .		0

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163	Simulation Studies for a Hyperon Time Projection Chamber (HypTPC) at J-PARC. , 2017, , .		0
164	Spectroscopy of Nuclei with Multi-Strangeness by Using New S-2S Spectrometer at J-PARC. , 2017, , .		0
165	Study of $\Lambda^*$ in Nuclei through $C(K^{\hat{a}}, \Lambda^+ X)$ Spectrum at 1.8 GeV/c in the J-PARC E05 Experiment. , 2019, , .		0