

Ichiro Nishinaka

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5324736/publications.pdf>

Version: 2024-02-01

143
papers

2,042
citations

236925

25
h-index

289244

40
g-index

146
all docs

146
docs citations

146
times ranked

842
citing authors

#	ARTICLE	IF	CITATIONS
1	Unexpected Behavior of Heavy-Ion Fusion Cross Sections at Extreme Sub-Barrier Energies. Physical Review Letters, 2002, 89, 052701.	7.8	206
2	Effects of nuclear orientation on the mass distribution of fission fragments in the reaction of $^{36}\text{Ar} + ^{144}\text{Sm}$. Physical Review Letters, 2005, 95, 102502.	2.9	102
3	Experimental identification of spin-parities and single-particle configurations in ^{257}No and its α -decay daughter ^{253}Fm . Physical Review Letters, 2005, 95, 102502.	2.9	75
4	Nuclear orientation in the reaction $^{34}\text{S} + ^{238}\text{U}$ and synthesis of the new isotope ^{268}Hs . Physical Review C, 2010, 82, .	2.9	67
5	Production Cross Sections of ^{261}Rf and ^{262}Db in Bombardments of ^{248}Cm with ^{18}O and ^{19}F Ions. Journal of Nuclear and Radiochemical Sciences, 2002, 3, 85-88.	0.7	62
6	Fluoride Complexation of Element 104, Rutherfordium. Journal of the American Chemical Society, 2004, 126, 5219-5224.	13.7	57
7	Role of Multichance Fission in the Description of Fission-Fragment Mass Distributions at High Energies. Physical Review Letters, 2017, 119, 222501.	7.8	55
8	Anion-exchange Behavior of Rf in HCl and HNO ₃ Solutions. Journal of Nuclear and Radiochemical Sciences, 2002, 3, 143-146.	0.7	47
9	Excitation energy dependence of fragment-mass distributions from fission of $^{180,190}\text{Hg}$ formed in fusion reactions of $^{36}\text{Ar} + ^{144,154}\text{Sm}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 89-94.	4.1	47
10	Fission fragments mass distributions of nuclei populated by the multinucleon transfer channels of the $^{18}\text{O} + ^{232}\text{Th}$ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 745, 180.	4.1	45
11	Evidence for quasifission in the sub-barrier reaction of $^{30}\text{Si} + ^{238}\text{U}$. Physical Review Letters, 2005, 95, 102502.	2.9	42
12	JAERI recoil mass separator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 376, 420-427.	1.6	38
13	Chemical studies on rutherfordium (Rf) at JAERI. Radiochimica Acta, 2005, 93, .	1.2	38
14	Charged particle multiplicities in heavy-ion-induced fission. Physical Review C, 1992, 46, 1922-1933.	2.9	36
15	Two deformation paths in proton-induced fission of ^{232}Th . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 387, 26-30.	4.1	35
16	Symmetric and Asymmetric Scission Properties: Identical Shape Elongations of Fissioning Nuclei. Physical Review Letters, 1999, 82, 3408-3411.	7.8	32
17	β -decay half-lives of new neutron-rich isotopes $^{167,168}\text{Tb}$ and levels in $^{167,168}\text{Dy}$. Physical Review C, 1999, 59, 3060-3065.	2.9	31

#	ARTICLE	IF	CITATIONS
19	Measurement of fusion excitation functions of $^{27, 29, 31}\text{Al} + ^{197}\text{Au}$. European Physical Journal A, 2001, 10, 373-379.	2.5	31
20	Fluoride Complexation of Element 104, Rutherfordium (Rf), Investigated by Cation-exchange Chromatography. Chemistry Letters, 2008, 37, 288-289.	1.3	28
21	Elution Curve of Rutherfordium (Rf) in Anion-Exchange Chromatography with Hydrofluoric Acid Solution. Journal of Nuclear and Radiochemical Sciences, 2004, 5, 45-48.	0.7	27
22	Extraction behavior of rutherfordium into tributylphosphate from hydrochloric acid. Radiochimica Acta, 2007, 95, 1-6.	1.2	27
23	Mass yield curves in low-energy proton-induced fission of $^{233}\text{U}, ^{235}\text{U}, ^{236}\text{U}, ^{237}\text{Np}, ^{239}\text{Pu}, ^{242}\text{Pu}, ^{244}\text{Pu}, ^{241}\text{Am}$, and ^{243}Am . Physical Review C, 1991, 44, 1405-1423.	2.9	26
24	$\hat{I}\pm$ -decay properties of the new neutron deficient isotope ^{212}Pa . Physical Review C, 1997, 55, 1555-1558.	2.9	26
25	Oxidation of Element 102, Nobelium, with Flow Electrolytic Column Chromatography on an Atom-at-a-Time Scale. Journal of the American Chemical Society, 2009, 131, 9180-9181.	13.7	25
26	Hexafluoro complex of rutherfordium in mixed HF/HNO ₃ solutions. Radiochimica Acta, 2008, 96, .	1.2	24
27	Evidence for hindrance in fusion between sulfur and lead nuclei. Physical Review C, 2012, 86, .	2.9	24
28	Mass separation of neutron-rich isotopes using a gas-jet coupled thermal ion source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 374, 330-334.	1.6	23
29	via the $\hat{I}\pm$ -decay of ^{251}Fm $\hat{I}\pm$ -decay of ^{151}Fm $\hat{I}\pm$ -decay of ^{251}Fm $\hat{I}\pm$ -decay of ^{151}Fm		
30	Startup of transactinide chemistry in JAERI. Radiochimica Acta, 2001, 89, 733-736.	1.2	22
31	Adsorption of Db and its homologues Nb and Ta, and the pseudo-homologue Pa on anion-exchange resin in HF solution. Radiochimica Acta, 2009, 97, .	1.2	21
32	Half-life of the electron capture decaying isotope ^{236}Am . Physical Review C, 1998, 57, 2057-2060.	2.9	20
33	New isotope ^{233}Am . European Physical Journal A, 2000, 9, 303-305.	2.5	20
34	Degrees of deformation at scission and correlated fission properties of atomic nuclei. Physical Review C, 2000, 62, .	2.9	20
35	$\hat{I}\pm$ -decays of neutron-deficient americium isotopes. Physical Review C, 2004, 69, .	2.9	20
36	$\hat{I}\pm$ decay of a new isotope ^{209}Th . Physical Review C, 1996, 54, 2043-2046.	2.9	19

#	ARTICLE	IF	CITATIONS
37	Nuclear fission of neutron-deficient protactinium nuclides. <i>Physical Review C</i> , 1997, 56, 891-899.	2.9	19
38	Transport efficiency of JAERI recoil mass separator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999, 437, 107-113.	1.6	19
39	$\hat{\alpha}$ decay of Cm238 and the new isotope Cm237. <i>Physical Review C</i> , 2006, 73, .	2.9	19
40	Anionic Fluoro Complex of Element 105, Db. <i>Chemistry Letters</i> , 2009, 38, 1084-1085.	1.3	19
41	Precision and postscission charged particle emissions from the $F19+159Tb$ reaction. <i>Physical Review C</i> , 1994, 49, 968-976.	2.9	18
42	$Q\hat{\alpha}^2$ measurements of 158, 159Pm, 159, 161Sm, 160-165Eu, 163Gd and 166Tb using a total absorption BGO detector. <i>European Physical Journal A</i> , 2007, 34, 363-370.	2.5	18
43	A convenient and reproducible method for the synthesis of astatinated 4-[²¹¹ At]astato-phenylalanine via electrophilic desilylation. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 165-171.	2.8	18
44	Bimodal Nature of Low Energy Fission of Light Actinides. <i>Radiochimica Acta</i> , 1997, 78, 3-10.	1.2	16
45	Decay Studies of Neutron-deficient Am, Cm, and Bk Nuclei Using an On-line Isotope Separator. <i>Journal of Nuclear and Radiochemical Sciences</i> , 2002, 3, 187-190.	0.7	16
46	Proton-neutron configurations in 236g, mAm and its EC-decay daughter 236Pu. <i>European Physical Journal A</i> , 2005, 23, 395-400.	2.5	16
47	First evidence for a new spontaneous fission decay produced in the reaction $30Si+238U$. <i>European Physical Journal A</i> , 1998, 2, 379-382.	2.5	14
48	Observation of a new isomeric state in 217Pa. <i>Physical Review C</i> , 1998, 57, R2804-R2807.	2.9	14
49	Extraction Chromatographic Behavior of Rf, Zr, and Hf in HCl Solution with Styrene-divinylbenzene Copolymer Resin Modified by TOPO (trioctylphosphine oxide). <i>Journal of Nuclear and Radiochemical Sciences</i> , 2010, 11, 7-11.	0.7	14
50	Identification of 161Sm and 165Gd. <i>Physical Review C</i> , 1998, 58, 1329-1332.	2.9	13
51	Partition of total excitation energy between fragment pairs in asymmetric and symmetric fission modes. <i>Physical Review C</i> , 2004, 70, .	2.9	13
52	Speciation of astatine reacted with oxidizing and reducing reagents by thin layer chromatography: formation of volatile astatine. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 322, 2003-2009.	1.5	13
53	Identification of the new isotope 241Bk. <i>European Physical Journal A</i> , 2003, 16, 17-19.	2.5	12
54	Fragment mass distribution of the $239Pu(d,pf)$ reaction via the superdeformed $\hat{\alpha}$ -vibrational resonance. <i>Physical Review C</i> , 2003, 67, .	2.9	12

#	ARTICLE	IF	CITATIONS
55	Chemical studies of the heaviest elements. Nuclear Physics A, 2004, 734, 124-135.	1.5	12
56	Status and Prospects of Heavy Element Nuclear Chemistry Research at JAERI. Journal of Nuclear and Radiochemical Sciences, 2002, 3, 129-132.	0.7	11
57	Transactinide nuclear chemistry at JAERI. European Physical Journal D, 2003, 53, A299-A304.	0.4	11
58	Production and separation of astatine isotopes in the ${}^7\text{Li}+{}^{\text{A}}\text{natPb}$ reaction. Journal of Radioanalytical and Nuclear Chemistry, 2015, 304, 1077-1083.	1.5	11
59	Thin layer chromatography for astatine and iodine in solutions prepared by dry distillation. Journal of Radioanalytical and Nuclear Chemistry, 2018, 318, 897-905.	1.5	11
60	Identification of a New Isotope ${}^{166}\text{Tb}$. Journal of the Physical Society of Japan, 1996, 65, 1135-1138.	1.6	10
61	Angular Momentum Effects on Mass Division in Actinide Fission. Radiochimica Acta, 1999, 86, 79-88.	1.2	10
62	Extraction of astatine isotopes for development of radiopharmaceuticals using a ${}^{211}\text{Rn}\rightarrow{}^{211}\text{At}$ generator. Journal of Radioanalytical and Nuclear Chemistry, 2015, 303, 1465-1468.	1.5	10
63	EC and β^{\pm} decays of ${}^{235}\text{Am}$. European Physical Journal A, 2004, 22, 411-416.	2.5	9
64	Preparation of no-carrier-added ${}^{211}\text{At}$ solutions by a simple dry distillation method in the ${}^{209}\text{Bi}({}^4\text{He},\gamma){}^{211}\text{At}$ reaction. Journal of Radioanalytical and Nuclear Chemistry, 2000, 300, 107-110.	1.5	9
65	Ground-state configuration of the ${}^{259}\text{No}$. Physical Review C, 2013, 87, .	2.9	8
66	The feature of the JAERI recoil mass separator. Nuclear Instruments & Methods in Physics Research B, 1997, 126, 340-343.	1.4	7
67	Two deformation paths in fission of light actinides. Journal of Radioanalytical and Nuclear Chemistry, 1999, 239, 97-101.	1.5	7
68	Jianget al.Reply. Physical Review Letters, 2003, 91, .	7.8	7
69	Fission Study of Actinide Nuclei Using Multi-nucleon Transfer Reactions. Physics Procedia, 2015, 64, 140-144.	1.2	7
70	Measurements of the excitation functions of radon and astatine isotopes from ${}^7\text{Li}$ -induced reactions with ${}^{209}\text{Bi}$ for development of a ${}^{211}\text{Rn}\rightarrow{}^{211}\text{At}$ generator. Journal of Radioanalytical and Nuclear Chemistry, 2020, 323, 921-926.	1.5	7
71	Development of a laser-enhanced ion-guide ion source. Nuclear Instruments & Methods in Physics Research B, 1992, 70, 241-244.	1.4	6
72	Primary fragment mass-yield distributions for asymmetric fission path of heavy nuclei. Journal of Radioanalytical and Nuclear Chemistry, 2003, 255, 67-72.	1.5	6

#	ARTICLE	IF	CITATIONS
91	Bimodal nature of actinide fission. Journal of Alloys and Compounds, 1994, 213-214, 423-425.	5.5	2
92	Recent studies of unstable nuclei far from stability with the on-line isotope separators of JAERI. Journal of Radioanalytical and Nuclear Chemistry, 1999, 239, 127-131.	1.5	2
93	Production of ^{147}Eu for Gamma-Ray Emission Probability Measurement. Journal of Nuclear Science and Technology, 2002, 39, 329-331.	1.3	2
94	Tilted-foil technique for producing a spin-polarized radioactive isotope beam. European Physical Journal A, 2012, 48, 1.	2.5	2
95	Production of iodine radionuclides using ^7Li ion beams. Journal of Radioanalytical and Nuclear Chemistry, 2017, 314, 1947-1965.	1.5	2
96	Adsorption temperature of volatile astatine species formed via dry distillation in a glass tube. Journal of Radioanalytical and Nuclear Chemistry, 2021, 329, 1459-1465.	1.5	2
97	Highly Asymmetric Mass Division in Low-Energy Proton-Induced Fission of ^{232}Th and ^{244}Pu . Radiochimica Acta, 1997, 76, 173-180.	1.2	1
98	Fragment mass dependence of angular anisotropy in 15 MeV proton-induced fission of ^{244}Pu . European Physical Journal A, 1998, 2, 153-155.	2.5	1
99	β^- -decay half-lives of new neutron-rich lanthanide isotopes. , 1998, , .		1
100	Fission Mode Description of Mass Distributions for Fissioning Systems Ranging from Mass 230 to 262. Journal of Radioanalytical and Nuclear Chemistry, 2001, 250, 255-261.	1.5	1
101	Nuclear Decay Properties of the Neutron-Deficient Actinides. Journal of Nuclear Science and Technology, 2002, 39, 34-37.	1.3	1
102	Characteristics of the asymmetric mass distribution in proton-induced fission of actinides. Journal of Radioanalytical and Nuclear Chemistry, 2003, 255, 73-76.	1.5	1
103	Scission shapes of pair fragments in asymmetric and symmetric fission modes. Journal of Radioanalytical and Nuclear Chemistry, 2007, 273, 263-266.	1.5	1
104	Dependence of barrier distribution and fusion-fission process on entrance channel. Nuclear Physics A, 2010, 834, 172c-175c.	1.5	1
105	Effects of nuclear orientation on fusion and fission process for reactions using actinide target nuclei. AIP Conference Proceedings, 2010, , .	0.4	1
106	Investigation of fission properties and evaporation residue measurement in the reactions using ^{238}U target nucleus. EPJ Web of Conferences, 2011, 17, 09005.	0.3	1
107	Measurement of neutron capture cross section of ^7Li at J-PARC / MLF / ANNRI. , 2014, , .		1
108	Analytical method for the determination of ^{211}At using an β^\pm -scintillation camera system and thin-layer chromatography. Journal of Radioanalytical and Nuclear Chemistry, 2020, 326, 773-778.	1.5	1

#	ARTICLE	IF	CITATIONS
109	Separation of astatine from irradiated lead targets based on dry distillation in a glass test tube. Journal of Radioanalytical and Nuclear Chemistry, 2021, 327, 869-875.	1.5	1
110	Production of ¹⁴⁷ Eu for Gamma-Ray Emission Probability Measurement.. Journal of Nuclear Science and Technology, 2002, 39, 329-331.	1.3	1
111	Fragment mass and kinetic energy distributions from fission of light actinides. Journal of Alloys and Compounds, 1994, 213-214, 417-419.	5.5	0
112	Measurement of kinetic energies of Cs isotopes produced in ¹⁶ O + ²⁰⁹ Bi nuclear fission by differential range method. Journal of Alloys and Compounds, 1994, 213-214, 420-422.	5.5	0
113	Mass yield and angular distribution of rare earth elements produced in proton-induced fission of ²⁴⁴ Pu. Journal of Alloys and Compounds, 1994, 213-214, 414-416.	5.5	0
114	JAERI recoil mass separator and its application to new RI measurements. , 1997, , .		0
115	Fusion reactions of deformed nuclei near Coulomb barriers. , 1998, , .		0
116	Fusion reactions of deformed nuclei near Coulomb barriers. , 1998, , .		0
117	β^2 -decay half-lives of new neutron-rich isotopes of elements from Pm to Tb. , 1999, , .		0
118	Recent results from the JAERI recoil mass separator. Journal of Radioanalytical and Nuclear Chemistry, 1999, 239, 155-157.	1.5	0
119	Symmetric and Asymmetric Scission Properties. Acta Physica Hungarica A Heavy Ion Physics, 2001, 13, 121-131.	0.4	0
120	The limit of nuclear deformation and fission properties of heavy and superheavy elements. AIP Conference Proceedings, 2001, , .	0.4	0
121	Shapes of Fragment Mass-Yield Distributions and Shapes of Scissioning Nuclei in Actinides. Journal of Nuclear Science and Technology, 2002, 39, 30-33.	1.3	0
122	Measurements of EC and Weak β^\pm Decays of Neutron-deficient Transuranium Isotopes. Journal of Nuclear Science and Technology, 2002, 39, 474-477.	1.3	0
123	Chemical Studies of the Transactinide Elements at JAEA. AIP Conference Proceedings, 2006, , .	0.4	0
124	Nuclear-Charge Polarization at Scission in Proton-Induced Fission of Light Actinides. , 2009, , .		0
125	Effects of nuclear orientation on fission fragment mass distributions in the reactions of [^{sup} 34,36]S+ [^{sup} 238]U. , 2009, , .		0
126	Effects of nuclear orientation on fusion and fission process in heavy ion reactions. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
127	Effects of nuclear orientation on fission fragment mass distributions in the reactions using actinide target nuclei. , 2009, , .		0
128	Effects of nuclear orientation on fusion and fission in the reaction using ^{238}U target nucleus. EPJ Web of Conferences, 2010, 2, 10001.	0.3	0
129	Effects of nuclear orientation on fusion and fission process for reactions using ^{238}U target nucleus. , 2010, , .		0
130	Study of nuclear structure influencing fusion reactions. EPJ Web of Conferences, 2011, 17, 05003.	0.3	0
131	Measurement of the $^{12}\text{C}(\hat{\pm},\hat{1}^3)^{16}\text{O}$ reaction at TRIAC. , 2012, , .		0
132	Spin-polarized radioactive isotope beam produced by tilted-foil technique. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 693-696.	1.4	0
133	In-beam fission study at JAEA for heavy element synthesis. , 2013, , .		0
134	FISSION STUDY USING MULTI-NUCLEON TRANSFER REACTIONS. , 2015, , .		0
135	A Comprehensive Approach to Determination of Nuclear Data of Unstable Nuclei. EPJ Web of Conferences, 2016, 106, 04004.	0.3	0
136	DEPENDENCE OF HEAVY-ION FUSION REACTION ON NUCLEAR DEFORMATION AND NUCLEAR SHELL STRUCTURE. , 2003, , .		0
137	NEW BEHAVIOR OF HEAVY-ION FUSION REACTIONS AT EXTREME SUB-BARRIER ENERGIES. , 2003, , .		0
138	FRAGMENT MASS DISTRIBUTION OF THE $^{239}\text{Pu}(d,pf)$ REACTION VIA THE SUPERDEFORMED $\hat{1}^2$ -VIBRATIONAL RESONANCE. , 2004, , .		0
139	ATOM-AT-A-TIME CHEMISTRY OF THE TRANSACTINIDE ELEMENT, RUTHERFORDIUM (ELEMENT 104) TOWARDS EXPERIMENTAL VERIFICATION OF RELATIVISTIC EFFECTS IN CHEMICAL PROPERTIES. , 2005, , .		0
140	Aqueous Chemistry of the Transactinide Element, Rutherfordium (Rf). , 2006, , 927-930.		0
141	EXCITATION ENERGY DEPENDENCE OF FRAGMENT MASS AND TOTAL KINETIC ENERGY DISTRIBUTIONS IN PROTON-INDUCED FISSION OF LIGHT ACTINIDES. , 2008, , .		0
142	Radiochemical study of sub-barrier fusion hindrance in the $^{19}\text{F}+^{209}\text{Bi}$ reaction. Proceedings in Radiochemistry, 2011, 1, 117-121.	0.2	0
143	CHARGED PARTICLE MULTIPLICITIES IN HEAVY-ION INDUCED FISSION. , 1995, , .		0