

Shinya Nagasaki

List of Publications by Year in descending order

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1582
citing authors

#	ARTICLE	IF	CITATIONS
1	Sorption of Se(-II) on illite, MX-80 bentonite, shale, and limestone in Na ⁺ -Ca ²⁺ -Cl solutions. Nuclear Engineering and Technology, 2022, 54, 1616-1622.	2.3	2
2	Sorption of Pd on illite, MX-80 bentonite and shale in Na ⁺ -Ca ²⁺ -Cl solutions. Nuclear Engineering and Technology, 2021, 53, 894-900.	2.3	2
3	Contribution of Ternary Reaction to Pd Sorption on MX-80 in Na-Ca-Cl Solution at High Ionic Strength. Science and Technology of Nuclear Installations, 2019, 2019, 1-6.	0.8	1
4	System dynamics simulation of the thermal dynamic processes in nuclear power plants. Nuclear Engineering and Technology, 2019, 51, 1540-1553.	2.3	25
5	Optical Properties of Trinuclear Citrate Complexes Containing 4f and 5f Block Metals. Bulletin of the Chemical Society of Japan, 2018, 91, 882-890.	3.2	1
6	A study of background on why Ontarians support nuclear energy. Journal of Nuclear Fuel Cycle and Environment, 2018, 25, 15-20.	0.1	0
7	Comparison of proliferation resistance among natural uranium, thorium-uranium, and thorium-plutonium fuels used in CANada Deuterium Uranium in deep geological repository by combining multiattribute utility analysis with transport model. Nuclear Engineering and Technology, 2018, 50, 794-800.	2.3	4
8	Sorption behaviour of Np(IV) on illite, shale and MX-80 in high ionic strength solutions. Journal of Radioanalytical and Nuclear Chemistry, 2017, 313, 1-11.	1.5	13
9	Interaction of NpO_2 with Cl^- in Na Ca Cl-type solutions at ionic strength of 6M: Effect of presence of Ca ion on interaction. Nuclear Engineering and Technology, 2017, 49, 1778-1782.	2.3	0
10	Cause-effect analysis on Fukushima accident reports - What did McMaster undergraduate students learn?. Journal of Nuclear Science and Technology, 2016, 53, 756-765.	1.3	1
11	Sorption behavior of Np(V) on illite, shale and MX-80 in high ionic strength solutions. Journal of Radioanalytical and Nuclear Chemistry, 2016, 308, 143-153.	1.5	12
12	Integrating Social-Scientific Literacy in Nuclear Engineering Education. , 2015, , 1-17.		0
13	Burning of MOX fuels in LWRs; fuel history effects on thermal properties of hull and end piece wastes and the repository performance. Journal of Nuclear Science and Technology, 2012, 49, 310-319.	1.3	0
14	Speciation of Eu ³⁺ bound to humic substances by time-resolved laser fluorescence spectroscopy (TRLFS) and parallel factor analysis (PARAFAC). Geochimica Et Cosmochimica Acta, 2012, 88, 199-215.	3.9	25
15	Surface speciation of Eu ³⁺ adsorbed on kaolinite by time-resolved laser fluorescence spectroscopy (TRLFS) and parallel factor analysis (PARAFAC). Journal of Colloid and Interface Science, 2012, 374, 258-266.	9.4	31
16	Isotopic ratio and vertical distribution of radionuclides in soil affected by the accident of Fukushima Dai-ichi nuclear power plants. Journal of Environmental Radioactivity, 2012, 113, 37-44.	1.7	45
17	Application of Parallel Factor Analysis for Time-Resolved Laser Fluorescence Spectroscopy: Implication for Metal Speciation Study. Environmental Science & Technology, 2010, 44, 5055-5060.	10.0	36
18	Study on the high level radioactive wastes geological isolation seen from the social acceptance of science and technology;. Journal of Nuclear Fuel Cycle and Environment, 2010, 17, 3-22.	0.1	0

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19	Electrostatic potentials of humic acid: Fluorescence quenching measurements and comparison with model calculations. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 347, 27-32.	4.7	9
20	The structure of monomeric and dimeric uranyl adsorption complexes on gibbsite: A combined DFT and EXAFS study. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 5975-5988.	3.9	73
21	LWR High Burn-Up Operation and MOX Introduction; Fuel Cycle Performance from the Viewpoint of Waste Management. <i>Journal of Nuclear Science and Technology</i> , 2009, 46, 677-689.	1.3	17
22	Social Acceptance Process Model for Ensuring the High-Level Radioactive Waste Disposal Site. <i>Transactions of the Atomic Energy Society of Japan</i> , 2009, 8, 19-33.	0.3	4
23	Thermal Impact on Geological Disposal of Hull and End Piece Wastes Resulting from High-Burn-up Operation of LWR and Introduction of MOX Fuels into LWR. <i>Journal of Nuclear Science and Technology</i> , 2009, 46, 443-452.	1.3	4
24	Adsorption of Heterogeneously Charged Nanoparticles on a Variably Charged Surface by the Extended Surface Complexation Approach: Charge Regulation, Chemical Heterogeneity, and Surface Complexation. <i>Journal of Physical Chemistry B</i> , 2008, 112, 1339-1349.	2.6	18
25	Moderation of Uncertainty in a Database of Sorption Coefficients (II) Analysis of Data Scatter by Adopting Ion Exchange Model. <i>Transactions of the Atomic Energy Society of Japan</i> , 2008, 7, 210-220.	0.3	0
26	Moderation of Uncertainty in a Database of Sorption Coefficients (I) Factors Drawing the Scatter in Database and Data Selection. <i>Transactions of the Atomic Energy Society of Japan</i> , 2008, 7, 194-209.	0.3	0
27	Metal Sorption to <i>Pseudomonas fluorescens</i> : Influence of pH, Ionic Strength and Metal Concentrations. <i>Geomicrobiology Journal</i> , 2007, 24, 205-210.	2.0	7
28	A fast and sensitive method for evaluating nuclides migration characteristics in rock medium by using micro-channel reactor concept. <i>Physics and Chemistry of the Earth</i> , 2007, 32, 463-468.	2.9	6
29	Polynuclear complex formation of trivalent lanthanides by 5-sulfosalicylate in an aqueous system—potentiometric, ¹ H NMR, and TRLIFS studies. <i>Inorganica Chimica Acta</i> , 2007, 360, 1575-1583.	2.4	8
30	Evaluation of Particle Release from Montmorillonite Gel by Flowing Groundwater Based on the DLVO Theory. <i>Transactions of the Atomic Energy Society of Japan</i> , 2007, 6, 205-213.	0.3	1
31	A theoretical study on molecular structure of Eu(III)-salicylate complexes in aqueous system. <i>Computational and Theoretical Chemistry</i> , 2005, 757, 87-97.	1.5	18
32	Change in pore structure and composition of hardened cement paste during the process of dissolution. <i>Cement and Concrete Research</i> , 2005, 35, 943-950.	11.0	72
33	Effects of porosity on leaching of Ca from hardened ordinary Portland cement paste. <i>Cement and Concrete Research</i> , 2005, 35, 1764-1775.	11.0	193
34	Electrostatic interaction models for ion binding to humic substances. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 265, 104-113.	4.7	43
35	Direct Quantitative Analysis of Particulate Aluminum Suspended in Water Using Laser-Induced Breakdown Spectroscopy. <i>Soil Science and Plant Nutrition</i> , 2005, 51, 911-916.	1.9	3
36	Selective and in-situ determination of carbonate and oxide particles in aqueous solution using laser-induced breakdown spectroscopy (LIBS) for wearable information equipment. <i>Microsystem Technologies</i> , 2005, 11, 974-979.	2.0	10

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37	Analysis of Copper Binding in the Ternary System Cu ²⁺ /Humic Acid/Goethite at Neutral to Acidic pH. <i>Environmental Science & Technology</i> , 2005, 39, 4886-4893.	10.0	63
38	Chemical Exchange Reaction of Glycinatocopper(II) Complex in Water: A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2005, 109, 10403-10409.	2.5	19
39	Reduction rate of neptunium(V) in heterogeneous solution with magnetite. <i>Radiochimica Acta</i> , 2004, 92, 145-150.	1.2	38
40	Application of the NICA-Donnan model for proton, copper and uranyl binding to humic acid. <i>Radiochimica Acta</i> , 2004, 92, 567-574.	1.2	32
41	Fluorescence characteristics of complex formation of europium(III)-salicylate. <i>Radiochimica Acta</i> , 2004, 92, 589-593.	1.2	17
42	Stoichiometry, stability constants and coordination geometry of Eu(III) 5-sulfosalicylate complex in aqueous system—A TRLIFS study. <i>Dalton Transactions</i> , 2004, , 3495-3502.	3.3	11
43	Adsorption of Humic Acid on Goethite: Isotherms, Charge Adjustments, and Potential Profiles. <i>Langmuir</i> , 2004, 20, 689-700.	3.5	134
44	Modeling of the Metal Binding to Humic Substances: Comparison between the Discrete and Continuous Affinity Distribution Models. <i>Transactions of the Atomic Energy Society of Japan</i> , 2004, 3, 215-232.	0.3	3
45	Sorption of nonylphenol on Na-Montmorillonite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 230, 131-139.	4.7	20
46	STUDY ON THE LEACHING BEHAVIOR OF Ca FROM THE ALITE HYDRATE. <i>Doboku Gakkai Ronbunshu</i> , 2003, 2003, 141-149.	0.2	2
47	P-PW-08 SELECTIVE AND IN-SITU DETERMINATION OF CARBONATE AND OXIDE PARTICLES IN AQUEOUS SOLUTION USING LASER-INDUCED BREAKDOWN SPECTROSCOPY (LIBS) FOR WEARABLE INFORMATION EQUIPMENT. <i>Proceedings of JSME-IIP/ASME-ISPS Joint Conference on Micromechatronics for Information and Precision Equipment IIP/ISPS Joint MIPE</i> , 2003, 2003, 415-416.	0.0	0
48	Evaluation of the complexation behavior between humic acid and UO ₂ ²⁺ with fluorescence spectroscopy and its mixture analysis. <i>Radiochimica Acta</i> , 2002, 90, 27-33.	1.2	15
49	Molecular fluorescence spectroscopy and mixture analysis for the evaluation of the complexation between humic acid and UO ₂ ²⁺ . <i>Radiochimica Acta</i> , 2002, 90, 545-548.	1.2	7
50	Sorption and reduction of neptunium(V) on the surface of iron oxides. <i>Radiochimica Acta</i> , 2002, 90, 665-669.	1.2	53
51	Silicate Anion Structural Change in Calcium Silicate Hydrate Gel on Dissolution of Hydrated Cement. <i>Journal of Nuclear Science and Technology</i> , 2002, 39, 540-547.	1.3	45
52	Influence of Heterogeneity of Binding Sites of Humic Acid on its Complexation with Actinyl Ions. <i>Journal of Nuclear Science and Technology</i> , 2002, 39, 466-472.	1.3	0
53	Adsorption behavior of IO ₃ ⁻ by CO ₃ ²⁻ - and NO ₃ ⁻ -hydrotalcite. <i>Applied Clay Science</i> , 2002, 22, 17-23.	5.2	67
54	Efficiency of Time Resolved Laser Induced Breakdown Spectroscopy for Particle Detection and Energy Transfer of Breakdown Plasma. <i>Transactions of the Atomic Energy Society of Japan</i> , 2002, 1, 472-476.	0.3	1

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55	Silicate Anion Structural Change in Calcium Silicate Hydrate Gel on Dissolution of Hydrated Cement.. Journal of Nuclear Science and Technology, 2002, 39, 540-547.	1.3	10
56	Migration of humic acid through silicate-packed columns considering filtration effect. Journal of Nuclear Fuel Cycle and Environment, 2002, 9, 15-20.	0.1	0
57	Sorption behavior of strontium onto C-S-H (calcium silicate hydrated phases). Studies in Surface Science and Catalysis, 2001, , 901-904.	1.5	6
58	Effect of Flow Field on Colloid Deposition in Filtration Process of Polystyrene Latex Particles through Columns Packed with Glass Beads. Journal of Nuclear Science and Technology, 2001, 38, 645-654.	1.3	3
59	Deposition Behavior of Polystyrene Latex Particles on Solid Surfaces during Migration through an Artificial Fracture in a Granite Rock Sample. Journal of Nuclear Science and Technology, 2001, 38, 439-443.	1.3	12
60	Calculations for the Substitutions of Al(OH) ₄ and SO ₄ ²⁻ with Si Tetrahedra. Journal of Nuclear Science and Technology, 2001, 38, 533-541.	1.3	7
61	Sorption of uranium(VI) on Na-montmorillonite colloids " Effect of humic acid and its migration ". Studies in Surface Science and Catalysis, 2001, 132, 829-832.	1.5	0
62	Effect of Flow Field on Colloid Deposition in Filtration Process of Polystyrene Latex Particles through Columns Packed with Glass Beads.. Journal of Nuclear Science and Technology, 2001, 38, 645-654.	1.3	1
63	Dissolution Phenomena of CaO-SiO ₂ -H ₂ O Gel at Ca/Si > 1 Coexisting with Ettringite System. Journal of Nuclear Science and Technology, 2000, 37, 793-801.	1.3	3
64	Speciation analysis on europium(III) using laser-induced breakdown spectroscopy. Radiochimica Acta, 2000, 88, 645-650.	1.2	16
65	Sorption equilibrium and kinetics of NpO ₂ + on dispersed particles of Na-montmorillonite. Radiochimica Acta, 2000, 88, 705-710.	1.2	16
66	Sorption and desorption kinetics of Np(V) on magnetite and hematite. Radiochimica Acta, 2000, 88, 453-458.	1.2	13
67	Sorption study of strontium onto hydrated cement phases using a sequential desorption method. Radiochimica Acta, 2000, 88, 483-487.	1.2	22
68	Calculation of the sorption of actinides on montmorillonite in the presence of humic acid. Nippon Kagaku Kaishi, 1999, 1999, 1155-1156.		
69	Dissolution Phenomena of CaO-SiO ₂ -H ₂ O Gel at Ca/Si > 1 Coexisting with Ettringite System.. Journal of Nuclear Science and Technology, 2000, 37, 793-801.	1.3	1
70	Sorption of neptunium on bentonite and its migration in geosphere. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 155, 137-143.	4.7	15
71	A model for dissolution of CaO-SiO ₂ -H ₂ O gel at Ca/Si > 1. Cement and Concrete Research, 1999, 29, 1091-1097.	11.0	32
72	A Model for Dissolution of CaO-SiO ₂ -H ₂ O Gel at Ca/Si < 1 by Considering Disordered Structure. Materials Research Society Symposia Proceedings, 1999, 556, 1237.	0.1	6

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73	(SiO ₄) ⁴⁻ structure change in C-S-H on dissolution processes of tricalcium silicate hydrate. Journal of Nuclear Fuel Cycle and Environment, 1999, 5, 43-50.	0.1	3
74	Diffusion in binary suspensions of charged colloids. Journal of Contaminant Hydrology, 1998, 35, 277-284.	3.3	0
75	Geochemical behavior of actinides in high-level radioactive waste disposal. Progress in Nuclear Energy, 1998, 32, 141-161.	2.9	12
76	Surface sorption and surface diffusion of NpO ₂ ⁺ with poorly crystallized ferric oxide. Journal of Alloys and Compounds, 1998, 271-273, 252-256.	5.5	13
77	A Raman Spectroscopic Study of Uranyl Species Adsorbed onto Colloidal Particles. Journal of Physical Chemistry B, 1998, 102, 9029-9032.	2.6	31
78	Adsorption/Desorption of Lanthanides on Metal Oxides Interfaces. Radiochimica Acta, 1998, 82, 239-242.	1.2	11
79	Sorption Equilibrium and Kinetics of NpO ₂ ⁺ Uptake onto Illite. Radiochimica Acta, 1998, 82, 263-268.	1.2	11
80	Filtration in Colloid Migration through Porous Media. Journal of Nuclear Fuel Cycle and Environment, 1998, 5, 59-66.	0.1	0
81	Separation and Coprecipitation of Lanthanides and Americium by Photolysis. Nuclear Technology, 1997, 118, 42-48.	1.2	0
82	Impact of Colloid Generation on Actinide Migration in High-Level Radioactive Waste Disposal: Overview and Laboratory Analysis. Nuclear Technology, 1997, 118, 58-68.	1.2	18
83	Diffusion of Charged Spherical Particles in Binary System. Journal of Nuclear Fuel Cycle and Environment, 1997, 4, 3-7.	0.1	0
84	Affinity of finely dispersed montmorillonite colloidal particles for americium and lanthanides. Journal of Nuclear Materials, 1997, 244, 29-35.	2.7	16
85	Interfacial behavior of actinides with colloids in the geosphere. Journal of Nuclear Materials, 1997, 248, 323-327.	2.7	17
86	Photochemical separation and co-precipitation of lanthanides in nitric acid solution. Journal of Photochemistry and Photobiology A: Chemistry, 1997, 106, 57-60.	3.9	7
87	The Role of Cement to be Expected in Radioactive Waste Disposal System.. Nippon Genshiryoku Gakkaishi/Journal of the Atomic Energy Society of Japan, 1997, 39, 1008-1018.	0.0	3
88	Photochemical Oxidation of Americium in Dilute Nitric Acid Solution with the Addition of Ozone. Separation Science and Technology, 1996, 31, 2443-2453.	2.5	7
89	Sorption behavior of Np (IV), Np (V) and Am (III) in the disturbed zone between engineered and natural barriers. Journal of Radioanalytical and Nuclear Chemistry, 1996, 214, 381-389.	1.5	10
90	Quantitative Performance Allocation of Multi-Barrier System for High-Level Radioactive Waste Disposal.. Nippon Genshiryoku Gakkaishi/Journal of the Atomic Energy Society of Japan, 1995, 37, 59-77.	0.0	15

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91	Separation of Lanthanides and Oxidation of Americium in Nitric Acid Solution by Photolysis. Journal of Nuclear Science and Technology, 1995, 32, 154-156.	1.3	4
92	Separation of Lanthanides and Oxidation of Americium in Nitric Acid Solution by Photolysis.. Journal of Nuclear Science and Technology, 1995, 32, 154-156.	1.3	2
93	Colloid Formation and Sorption of Americium in the Water/Bentonite System. Radiochimica Acta, 1994, 66-67, 207-212.	1.2	4
94	Influence of Fe(III) Colloids on Np(V) Migration through Quartz-Packed Columns. Journal of Nuclear Science and Technology, 1994, 31, 143-150.	1.3	17
95	THIRD PHASE FORMATION IN NITRIC ACID EXTRACTION BY _n -OCTYL(PHENYL)-N,N-DIISOBUTYLCARBAMOYL-METHYLPHOSPHINE OXIDE. Solvent Extraction and Ion Exchange, 1994, 12, 459-473.	2.0	6
96	Impact of Pseudocolloid Formation on Migration of Nuclides within Fractures. Journal of Nuclear Science and Technology, 1994, 31, 623-625.	1.3	4
97	Facilitated Transport of Charged Colloids in Geologic Media. Materials Research Society Symposia Proceedings, 1994, 353, 157.	0.1	2
98	Influence of Fe(III) Colloids on Np(V) Migration through Quartz-Packed Columns.. Journal of Nuclear Science and Technology, 1994, 31, 143-150.	1.3	3
99	Impact of Pseudocolloid Formation on Migration of Nuclides within Fractures.. Journal of Nuclear Science and Technology, 1994, 31, 623-625.	1.3	3
100	Colloid Formation and Sorption of Americium in the Water/Bentonite System. Radiochimica Acta, 1994, 66-67, 207-212.	1.2	9
101	TEMPERATURE EFFECT ON THE EXTRACTION OF Np(V) BY _n -(OCTYLPHENYL)-N,N-DIISOBUTYLCARBAMOYLMETHYLPHOSPHINE OXIDE. Solvent Extraction and Ion Exchange, 1993, 11, 377-387.	2.0	3
102	Fast Transport of Colloidal Particles through Quartz-Packed Columns. Journal of Nuclear Science and Technology, 1993, 30, 1136-1144.	1.3	22
103	Analysis on Evolving Environments of Engineered Barriers of High-Level Radioactive Waste Repositories during the First 1,000 Years.. Nippon Genshiryoku Gakkaiishi/Journal of the Atomic Energy Society of Japan, 1993, 35, 420-437.	0.0	5
104	Fast Transport of Colloidal Particles through Quartz-Packed Columns.. Journal of Nuclear Science and Technology, 1993, 30, 1136-1144.	1.3	13
105	Effect of TBP on Solvent Extraction of Np(V) with M-Octyl(phenyl)-, N-N Diisobutylcarbamoilmethylphosphine Oxide. Journal of Nuclear Science and Technology, 1992, 29, 263-268.	1.3	14
106	Oxidation of Pentavalent Neptunium by Nitrous Acid in CMPO-TBP-n-Dodecane Organic Solution. Journal of Nuclear Science and Technology, 1992, 29, 671-676.	1.3	12
107	Geochemical Behavior of Neptunium. Journal of Nuclear Science and Technology, 1992, 29, 706-718.	1.3	11
108	Solvent Extraction of Np (V) with CMPO from Nitric Acid Solutions Containing U (VI). Journal of Nuclear Science and Technology, 1992, 29, 1100-1107.	1.3	17

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109	Solvent Extraction of Np(V) with CMPO from Nitric Acid Solutions Containing U(VI).. Journal of Nuclear Science and Technology, 1992, 29, 1100-1107.	1.3	2
110	Effect of TBP on Solvent Extraction of Np(V) with n-Octyl(phenyl)-N,N-Diisobutylcarbamoylmethylphosphine Oxide. Journal of Nuclear Science and Technology, 1992, 29, 263-283.	1.3	6
111	Oxidation of Pentavalent Neptunium by Nitrous Acid in CMPO-TBP-n-Dodecane Organic Solution.. Journal of Nuclear Science and Technology, 1992, 29, 671-676.	1.3	4
112	Speciation and solubility of neptunium in underground environments by paper electrophoresis. Journal of Radioanalytical and Nuclear Chemistry, 1988, 124, 383-395.	1.5	18