

Shinya Nagasaki

List of Publications by Year in descending order

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112
papers

1,732
citations

361413

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114
all docs

114
docs citations

114
times ranked

1582
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Adsorption of Humic Acid on Goethite: Isotherms, Charge Adjustments, and Potential Profiles. <i>Langmuir</i> , 2004, 20, 689-700.	3.5	134
3	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
4	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
5	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
6	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
7	Sorption and reduction of neptunium(V) on the surface of iron oxides. <i>Radiochimica Acta</i> , 2002, 90, 665-669.	1.2	53
8	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
9	Isotopic ratio and vertical distribution of radionuclides in soil affected by the accident of Fukushima Dai-ichi nuclear power plants. <i>Journal of Environmental Radioactivity</i> , 2012, 113, 37-44.	1.7	45
10	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
11	Reduction rate of neptunium(V) in heterogeneous solution with magnetite. <i>Radiochimica Acta</i> , 2004, 92, 145-150.	1.2	38
12	Application of Parallel Factor Analysis for Time-Resolved Laser Fluorescence Spectroscopy: Implication for Metal Speciation Study. <i>Environmental Science & Technology</i> , 2010, 44, 5055-5060.	10.0	36
13	A model for dissolution of CaO-SiO ₂ -H ₂ O gel at Ca/Si > 1. <i>Cement and Concrete Research</i> , 1999, 29, 1091-1097.	11.0	32
14	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
15	A Raman Spectroscopic Study of Uranyl Species Adsorbed onto Colloidal Particles. <i>Journal of Physical Chemistry B</i> , 1998, 102, 9029-9032.	2.6	31
16	Surface speciation of Eu ³⁺ adsorbed on kaolinite by time-resolved laser fluorescence spectroscopy (TRLFS) and parallel factor analysis (PARAFAC). <i>Journal of Colloid and Interface Science</i> , 2012, 374, 258-266.	9.4	31
17	Speciation of Eu ³⁺ bound to humic substances by time-resolved laser fluorescence spectroscopy (TRLFS) and parallel factor analysis (PARAFAC). <i>Geochimica Et Cosmochimica Acta</i> , 2012, 88, 199-215.	3.9	25
18	System dynamics simulation of the thermal dynamic processes in nuclear power plants. <i>Nuclear Engineering and Technology</i> , 2019, 51, 1540-1553.	2.3	25

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19	Fast Transport of Colloidal Particles through Quartz-Packed Columns. <i>Journal of Nuclear Science and Technology</i> , 1993, 30, 1136-1144.	1.3	22
20	Sorption study of strontium onto hydrated cement phases using a sequential desorption method. <i>Radiochimica Acta</i> , 2000, 88, 483-487.	1.2	22
21	Sorption of nonylphenol on Na-Montmorillonite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 230, 131-139.	4.7	20
22	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
23	Speciation and solubility of neptunium in underground environments by paper electrophoresis. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1988, 124, 383-395.	1.5	18
24	Impact of Colloid Generation on Actinide Migration in High-Level Radioactive Waste Disposal: Overview and Laboratory Analysis. <i>Nuclear Technology</i> , 1997, 118, 58-68.	1.2	18
25	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
26	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
27	Solvent Extraction of Np (V) with CMPO from Nitric Acid Solutions Containing U (VI). <i>Journal of Nuclear Science and Technology</i> , 1992, 29, 1100-1107.	1.3	17
28	Influence of Fe(III) Colloids on Np(V) Migration through Quartz-Packed Columns. <i>Journal of Nuclear Science and Technology</i> , 1994, 31, 143-150.	1.3	17
29	Interfacial behavior of actinides with colloids in the geosphere. <i>Journal of Nuclear Materials</i> , 1997, 248, 323-327.	2.7	17
30	Fluorescence characteristics of complex formation of europium(III)-salicylate. <i>Radiochimica Acta</i> , 2004, 92, 589-593.	1.2	17
31	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
32	Affinity of finely dispersed montmorillonite colloidal particles for americium and lanthanides. <i>Journal of Nuclear Materials</i> , 1997, 244, 29-35.	2.7	16
33	Speciation analysis on europium(III) using laser-induced breakdown spectroscopy. <i>Radiochimica Acta</i> , 2000, 88, 645-650.	1.2	16
34	Sorption equilibrium and kinetics of NpO ₂ + on dispersed particles of Na-montmorillonite. <i>Radiochimica Acta</i> , 2000, 88, 705-710.	1.2	16
35	Quantitative Performance Allocation of Multi-Barrier System for High-Level Radioactive Waste Disposal. <i>Nippon Genshiryoku Gakkaishi/Journal of the Atomic Energy Society of Japan</i> , 1995, 37, 59-77.	0.0	15
36	Sorption of neptunium on bentonite and its migration in geosphere. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999, 155, 137-143.	4.7	15

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37	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
38	Effect of TBP on Solvent Extraction of Np(V) with M-Octyl(phenyl)-, N-N Diisobutylcarbamoylmethylphosphine Oxide. <i>Journal of Nuclear Science and Technology</i> , 1992, 29, 263-268.	1.3	14
39	Surface sorption and surface diffusion of NpO ₂ ⁺ with poorly crystallized ferric oxide. <i>Journal of Alloys and Compounds</i> , 1998, 271-273, 252-256.	5.5	13
40	Sorption and desorption kinetics of Np(V) on magnetite and hematite. <i>Radiochimica Acta</i> , 2000, 88, 453-458.	1.2	13
41	Sorption behaviour of Np(IV) on illite, shale and MX-80 in high ionic strength solutions. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 313, 1-11.	1.5	13
42	Fast Transport of Colloidal Particles through Quartz-Packed Columns.. <i>Journal of Nuclear Science and Technology</i> , 1993, 30, 1136-1144.	1.3	13
43	Oxidation of Pentavalent Neptunium by Nitrous Acid in CMPO-TBP-n-Dodecane Organic Solution. <i>Journal of Nuclear Science and Technology</i> , 1992, 29, 671-676.	1.3	12
44	Geochemical behavior of actinides in high-level radioactive waste disposal. <i>Progress in Nuclear Energy</i> , 1998, 32, 141-161.	2.9	12
45	Deposition Behavior of Polystyrene Latex Particles on Solid Surfaces during Migration through an Artificial Fracture in a Granite Rock Sample. <i>Journal of Nuclear Science and Technology</i> , 2001, 38, 439-443.	1.3	12
46	Sorption behavior of Np(V) on illite, shale and MX-80 in high ionic strength solutions. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 308, 143-153.	1.5	12
47	Geochemical Behavior of Neptunium. <i>Journal of Nuclear Science and Technology</i> , 1992, 29, 706-718.	1.3	11
48	Adsorption/Desorption of Lanthanides on Metal Oxides Interfaces. <i>Radiochimica Acta</i> , 1998, 82, 239-242.	1.2	11
49	Sorption Equilibrium and Kinetics of NpO ₂ ⁺ Uptake onto Illite. <i>Radiochimica Acta</i> , 1998, 82, 263-268.	1.2	11
50	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
51	Sorption behavior of Np (IV), Np (V) and Am (III) in the disturbed zone between engineered and natural barriers. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1996, 214, 381-389.	1.5	10
52	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
53	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	10
54	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

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55	Colloid Formation and Sorption of Americium in the Water/Bentonite System. <i>Radiochimica Acta</i> , 1994, 66-67, 207-212.	1.2	9
56	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
57	Photochemical Oxidation of Americium in Dilute Nitric Acid Solution with the Addition of Ozone. <i>Separation Science and Technology</i> , 1996, 31, 2443-2453.	2.5	7
58	Photochemical separation and co-precipitation of lanthanides in nitric acid solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1997, 106, 57-60.	3.9	7
59	<i>Ab Initio</i> Calculations for the Substitutions of Al(OH) ₄ and SO ₄ ²⁻ with Si Tetrahedra. <i>Journal of Nuclear Science and Technology</i> , 2001, 38, 533-541.	1.3	7
60	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
61	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
62	THIRD PHASE FORMATION IN NITRIC ACID EXTRACTION BY n-OCTYL(PHENYL)-N,N-DIISOBUTYLCARBAMOYL-METHYLPHOSPHINE OXIDE. <i>Solvent Extraction and Ion Exchange</i> , 1994, 12, 459-473.	2.0	6
63	A Model for Dissolution of Ca-SiO ₂ -H ₂ O Gel at Ca/Si < 1 by Considering Disordered Structure. <i>Materials Research Society Symposia Proceedings</i> , 1999, 556, 1237.	0.1	6
64	Sorption behavior of strontium onto C-S-H (calcium silicate hydrated phases). <i>Studies in Surface Science and Catalysis</i> , 2001, , 901-904.	1.5	6
65	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
66	Effect of TBP on Solvent Extraction of Np(V) with n-Octyl(phenyl)-N,N-Diisobutylcarbamoylmethylphosphine Oxide. <i>Journal of Nuclear Science and Technology</i> , 1992, 29, 263-283.	1.3	6
67	Analysis on Evolving Environments of Engineered Barriers of High-Level Radioactive Waste Repositories during the First 1,000 Years.. <i>Nippon Genshiryoku Gakkaiishi/Journal of the Atomic Energy Society of Japan</i> , 1993, 35, 420-437.	0.0	5
68	Colloid Formation and Sorption of Americium in the Water/Bentonite System. <i>Radiochimica Acta</i> , 1994, 66-67, 207-212.	1.2	4
69	Impact of Pseudocolloid Formation on Migration of Nuclides within Fractures. <i>Journal of Nuclear Science and Technology</i> , 1994, 31, 623-625.	1.3	4
70	Separation of Lanthanides and Oxidation of Americium in Nitric Acid Solution by Photolysis. <i>Journal of Nuclear Science and Technology</i> , 1995, 32, 154-156.	1.3	4
71	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
72	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

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73	Comparison of proliferation resistance among natural uranium, thorium and 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
74	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
75	TEMPERATURE EFFECT ON THE EXTRACTION OF Np(V) BYn-(OCTYLPHENYL)-N,N-DIISOBUTYLCARBAMOYL METHYLPHOSPHINE OXIDE. Solvent Extraction and Ion Exchange, 1993, 11, 377-387.	2.0	3
76	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
77	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
78	Modeling of the Metal Binding to Humic Substances: Comparison between the Discrete and Continuous Affinity Distribution Models. Transactions of the Atomic Energy Society of Japan, 2004, 3, 215-232.	0.3	3
79	Direct Quantitative Analysis of Particulate Aluminum Suspended in Water Using Laser-Induced Breakdown Spectroscopy. Soil Science and Plant Nutrition, 2005, 51, 911-916.	1.9	3
80	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
81	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
82	Impact of Pseudocolloid Formation on Migration of Nuclides within Fractures.. Journal of Nuclear Science and Technology, 1994, 31, 623-625.	1.3	3
83	(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
84	Facilitated Transport of Charged Colloids in Geologic Media. Materials Research Society Symposia Proceedings, 1994, 353, 157.	0.1	2
85	STUDY ON THE LEACHING BEHAVIOR OF Ca FROM THE ALITE HYDRATE. Doboku Gakkai Ronbunshu, 2003, 2003, 141-149.	0.2	2
86	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
87	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
88	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
89	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
90	Efficiency of Time Resolved Laser Induced Breakdown Spectroscopy for Particle Detection and Energy Transfer of Breakdown Plasma. Transactions of the Atomic Energy Society of Japan, 2002, 1, 472-476.	0.3	1

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91	Causeâ€“effect analysis on Fukushima accident reports â€“ What did McMaster undergraduate students learn?. Journal of Nuclear Science and Technology, 2016, 53, 756-765.	1.3	1
92	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
93	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
94	æ”¼å°,æ€Šå»¶fæ£„ç%©â†‡ âˆ†ã,ã,1ãƒ†ãƒã«ããã,ã ã,»ãƒjãƒãf^ã«æœŸã¼/4...ã•ã,ãã,ã¼/21ã%²,(ll) æœ—™è”è”ãœŸ–ç,1ãã,%. Nippon		
95	Dissolution Phenomena of CaO-SiO2-H2O Gel at Ca/Si>1 Coexisting with Ettringite System.. Journal of Nuclear Science and Technology, 2000, 37, 793-801.	1.3	1
96	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
97	Evaluation of Particle Release from Montmorillonite Gel by Flowing Groundwater Based on the DLVO Theory. Transactions of the Atomic Energy Society of Japan, 2007, 6, 205-213.	0.3	1
98	Separation and Coprecipitation of Lanthanides and Americium by Photolysis. Nuclear Technology, 1997, 118, 42-48.	1.2	0
99	Diffusion of Charged Spherical Particles in Binary System. Journal of Nuclear Fuel Cycle and Environment, 1997, 4, 3-7.	0.1	0
100	Diffusion in binary suspensions of charged colloids. Journal of Contaminant Hydrology, 1998, 35, 277-284.	3.3	0
101	Filtration in Colloid Migration through Porous Media. Journal of Nuclear Fuel Cycle and Environment, 1998, 5, 59-66.	0.1	0
102	Sorption of uranium(VI) on Na-montmorillonite colloids â€“ Effect of humic acid and its migration â€“. Studies in Surface Science and Catalysis, 2001, 132, 829-832.	1.5	0
103	Influence of Heterogeneity of Binding Sites of Hmic Acid on its Complexation with Actinyl Ions. Journal of Nuclear Science and Technology, 2002, 39, 466-472.	1.3	0
104	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
105	Interaction of NpO_2 with Clâ€“ 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
106	A study of background on why Ontarians support nuclear energy. Journal of Nuclear Fuel Cycle and Environment, 2018, 25, 15-20.	0.1	0
107	Migration of humic acid through silicate-packed columns consideringfiltration effect. Journal of Nuclear Fuel Cycle and Environment, 2002, 9, 15-20.	0.1	0
108	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. Proceedings of JSME-IIP/ASME-ISPS Joint Conference on Micromechatronics for Information and Precision Equipment IIP/ISPS Joint MIPE, 2003, 2003, 415-416.	0.0	0

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109	Moderation of Uncertainty in a Database of Sorption Coefficients (II) Analysis of Data Scatter by Adopting Ion Exchange Model. Transactions of the Atomic Energy Society of Japan, 2008, 7, 210-220.	0.3	0
110	Moderation of Uncertainty in a Database of Sorption Coefficients (I) Factors Drawing the Scatter in Database and Data Selection. Transactions of the Atomic Energy Society of Japan, 2008, 7, 194-209.	0.3	0
111	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
112	Integrating Social-Scientific Literacy in Nuclear Engineering Education. , 2015, , 1-17.		0