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List of Publications by Year in descending order

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76
papers

720
citations

623734

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24
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80
all docs

80
docs citations

80
times ranked

676
citing authors

#	ARTICLE	IF	CITATIONS
1	Valence states of cyclotron-produced thallium. <i>New Journal of Chemistry</i> , 2021, 45, 3377-3381.	2.8	8
2	Stability of Different BTBP and BTPPhen Extracting or Masking Compounds against I^{131} Radiation. <i>ACS Omega</i> , 2021, 6, 26416-26427.	3.5	4
3	Thermodynamic parameters of Am(III), Cm(III) and Eu(III) extraction by CyMe4-BTPPhen in cyclohexanone from HNO_3 solutions. <i>Journal of Chemical Thermodynamics</i> , 2020, 141, 105955.	2.0	10
4	Fluorinated Carbonates as New Diluents for Extraction and Separation of f -Block Elements. <i>Solvent Extraction and Ion Exchange</i> , 2020, 38, 180-193.	2.0	13
5	Extraction Properties of 4-Tetra(hydroxyphenyl)BTPPhen in Liquid-Liquid Extraction Systems with Cyclohexanone/Octanol or in a Solid-Phase Extraction System. <i>Heterocycles</i> , 2020, 101, 209.	0.7	1
6	Recycling of isotopically modified molybdenum from irradiated CerMet nuclear fuel: part 4 tC technetium separation from concentrated molybdate solution. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 321, 775-781.	1.5	1
7	Recycling of isotopically modified molybdenum from irradiated CerMet nuclear fuel: part 3 tC strontium separation from concentrated molybdate solution. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 321, 277-284.	1.5	2
8	Recycling of isotopically modified molybdenum from irradiated CerMet nuclear fuel: part 1 tC concept design and assessment. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 320, 227-233.	1.5	5
9	Recycling of isotopically modified molybdenum from irradiated CerMet nuclear fuel: part 2 tC caesium separation from concentrated molybdate solution. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 320, 377-384.	1.5	2
10	Separation of Minor Actinides from Lanthanides Using Immobilized Ligand Systems: The Role of the Counterion. <i>Heterocycles</i> , 2019, 99, 825.	0.7	4
11	Separation of Am(III), Cm(III) and Eu(III) by electro-spun polystyrene-immobilized CyMe4-BTPPhen. <i>Tetrahedron</i> , 2018, 74, 5258-5262.	1.9	11
12	Separation of the Minor Actinides Americium(III) and Curium(III) by Hydrophobic and Hydrophilic BTPPhen ligands: Exploiting Differences in their Rates of Extraction and Effective Separations at Equilibrium. <i>Solvent Extraction and Ion Exchange</i> , 2018, 36, 115-135.	2.0	20
13	Modelling of the Am(III) tC Cm(III) kinetic separation effect observed during metal ion extraction by bis-(1,2,4)-triazine ligands. <i>Separation Science and Technology</i> , 2018, 53, 277-285.	2.5	12
14	18th Radiochemical conference: RadChem 2018. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 318, 2177-2179.	1.5	0
15	Extraction of thallium and indium isotopes as the homologues of nihonium into the ionic liquids. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 318, 2455-2461.	1.5	10
16	Synthesis and Screening of a Novel (dppz)-BTPPhen Ligand for the separation of Americium from Europium. <i>Letters in Organic Chemistry</i> , 2018, 15, 340-344.	0.5	0
17	Extraction of minor actinides, lanthanides and other fission products by silica-immobilized BTBP/BTPPhen ligands. <i>Chemical Communications</i> , 2017, 53, 4010-4013.	4.1	19
18	Separation of curium from americium using composite sorbents and complexing agent solutions: part 2. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 312, 685-689.	1.5	2

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19	Synthesis of Novel BTPPhen-Functionalized Silica-Coated Magnetic Nanoparticles for Separating Trivalent Actinides and Lanthanides. <i>Synlett</i> , 2017, 28, 2795-2799.	1.8	6
20	Comparing the Extraction of Am(III), Cm(III) and Eu(III) by CyMe4-BTPPhen-Functionalized Silica and Zirconia-Coated Magnetic Nanoparticles. <i>Heterocycles</i> , 2016, 93, 453.	0.7	1
21	Radiation Influencing of the Extraction Properties of the CyMe4-BTBP and CyMe4-BTPPhen Solvents with FS-13. <i>Procedia Chemistry</i> , 2016, 21, 174-181.	0.7	10
22	Synthesis and Screening of Modified 6,6'-Bis(5,5,8,8-tetramethyl-5,6,7,8-tetrahydrobenzo[1,2,4]triazin-3-yl)-2,2'-bipyridine Ligands for Actinide and Lanthanide Separation in Nuclear Waste Treatment. <i>Journal of Organic Chemistry</i> , 2016, 81, 10517-10520.	3.2	6
23	The effect of counting conditions on pure beta emitter determination by Cherenkov counting. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 310, 891-903.	1.5	8
24	Characterization of solvents containing CyMe4-BTPPhen in selected cyclohexanone-based diluents after irradiation by accelerated electrons. <i>Nukleonika</i> , 2015, 60, 885-891.	0.8	5
25	Scientific and Engineering Literature Mini Review of Molten Salt Oxidation for Radioactive Waste Treatment and Organic Compound Gasification as well as Spent Salt Treatment. <i>Science and Technology of Nuclear Installations</i> , 2015, 2015, 1-10.	0.8	9
26	Joint Bratislava-Prague studies of radiocarbon and uranium in the environment using accelerator mass spectrometry and radiometric methods. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 304, 67-73.	1.5	7
27	17th Radiochemical conference: RadChem 2014 MariĀnskĀ LĀznĀ, 11-16th May 2014. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 304, 1-6.	1.5	3
28	Separation of curium from americium using composite sorbents and complexing agent solutions. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 304, 349-355.	1.5	7
29	Cooperation in education and training in nuclear- and radiochemistry in Europe. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 304, 459-466.	1.5	2
30	Hydrophilic sulfonated bis-1,2,4-triazine ligands are highly effective reagents for separating actinides(<i>scp>iii</scp></i>) from lanthanides(<i>scp>iii</scp></i>) via selective formation of aqueous actinide complexes. <i>Chemical Science</i> , 2015, 6, 4812-4821.	7.4	102
31	Thiacalixarenes: radiation stability and Eu/Am extraction in synergistic systems with COSANs. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 304, 257-262.	1.5	4
32	Polyacrylonitrile based composite materials with extracting agents containing chemically bonded CMPO groups for separation of actinoids. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 304, 313-319.	1.5	9
33	Effective separation of Am(<i>scp>iii</scp></i>) and Eu(<i>scp>iii</scp></i>) from HNO ₃ solutions using CyMe ₄ -BTPPhen-functionalized silica-coated magnetic nanoparticles. <i>Chemical Communications</i> , 2014, 50, 15082-15085.	4.1	41
34	Comparison of uranium extraction from model fresh water on TiO ₂ -PAN and NaTiO ₂ -PAN composite absorbers. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013, 298, 2057-2063.	1.5	3
35	Influence of diluent alkyl substitution on the extraction of Am(III) and Eu(III) by a 6,6'-bis(1,2,4-triazin-3-yl)-2,2'-bipyridine ligand dissolved in alkylated cyclohexanone diluents. <i>Radiochimica Acta</i> , 2012, 100, 747-752.	1.2	10
36	Synthesis and Evaluation of Lipophilic BTBP Ligands for An/Ln Separation in Nuclear Waste Treatment: The Effect of Alkyl Substitution on Extraction Properties and Implications for Ligand Design. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 1509-1519.	2.4	48

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37	The Separation of Americium(III) from Europium(III) by Two New 6,6'-Bistriazinyl-2,2'-Bipyridines in Different Diluents. Solvent Extraction and Ion Exchange, 2011, 29, 551-576.	2.0	24
38	Preparation of samples for alpha-spectrometry by direct evaporation of extracted species. Journal of Radioanalytical and Nuclear Chemistry, 2010, 286, 735-739.	1.5	8
39	Study of HDEHP-PAN solid extractants for the determination of ⁹⁰ Sr. Journal of Radioanalytical and Nuclear Chemistry, 2010, 286, 729-734.	1.5	1
40	Radiation formation of colloidal silver particles in aqueous systems. Applied Radiation and Isotopes, 2010, 68, 676-678.	1.5	15
41	Radiation and chemical stability of calix[4]arene derivatives as prospective liquid-liquid extractants. Radiochimica Acta, 2009, 97, .	1.2	2
42	Radiolysis of oxalic and citric acids using gamma rays and accelerated electrons. Radiation Physics and Chemistry, 2008, 77, 884-888.	2.8	6
43	Use of new composite materials for the determination of Cu, Cd, Mo, As, and Sb in biological samples by radiochemical neutron activation analysis. Journal of Radioanalytical and Nuclear Chemistry, 2006, 269, 463-468.	1.5	6
44	Determination of gross alpha and beta activities in water samples by liquid scintillation counting. European Physical Journal D, 2006, 56, D299-D305.	0.4	0
45	Validation of an extraction chromatographic method with SrResin [®] for determination of ²¹⁰ Pb in various matrices. European Physical Journal D, 2006, 56, D307-D314.	0.4	2
46	New TRLFS laboratory at the CTU in Prague. European Physical Journal D, 2006, 56, D565-D568.	0.4	1
47	Study of solid extractants based on malonamides, diglycolamides, and bipyridines for the partitioning of minor actinides from high active wastes. European Physical Journal D, 2006, 56, D589-D597.	0.4	2
48	Separation of radiocobalt from NPP evaporator concentrate. European Physical Journal D, 2006, 56, D617-D622.	0.4	0
49	Soils electroremediation. European Physical Journal D, 2006, 56, D629-D635.	0.4	0
50	Treatment of spent NTA-based decontamination solutions. European Physical Journal D, 2006, 56, D673-D680.	0.4	0
51	Separation of radionuclides from chemical and electrochemical decontamination wastes. Journal of Radioanalytical and Nuclear Chemistry, 2003, 255, 397-402.	1.5	5
52	Separation of radionuclides from spent decontamination solutions onto selective inorganic-organic composite absorbers. European Physical Journal D, 2003, 53, A603-A610.	0.4	4
53	Development of a method for regeneration of spent electrochemical decontamination solution on the basis of data on speciation of metal ions in solution. European Physical Journal D, 2003, 53, A699-A704.	0.4	0
54	Title is missing!. Journal of Radioanalytical and Nuclear Chemistry, 2002, 254, 47-52.	1.5	58

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55	AMP-PAN column tests for the removal of ¹³⁷ Cs from actual and simulated INEEL high-activity wastes. European Physical Journal D, 1999, 49, 959-964.	0.4	16
56	Co-ordination of radiochemistry, radiochemists and meetings in Europe. European Physical Journal D, 1999, 49, 1011-1014.	0.4	3
57	Sorption of cobalt on hydrated manganese dioxide. European Physical Journal D, 1999, 49, 665-671.	0.4	3
58	Study of sorption properties of various titanium dioxide materials. European Physical Journal D, 1999, 49, 789-795.	0.4	4
59	What do Radioactive Equilibria Say about the Contamination of Freshwater Sediments in Bohemia with Natural Radionuclides?. Radiochimica Acta, 1997, 78, 163-166.	1.2	1
60	Correlation analysis of the contamination of freshwater sediments in the Labe (Elbe) river catchment with gamma-emitting radionuclides. Studies in Environmental Science, 1997, 68, 203-206.	0.0	0
61	Composite absorbers of inorganic ion-exchangers and polyacrylonitrile binding matrix. Journal of Radioanalytical and Nuclear Chemistry, 1997, 222, 205-207.	1.5	17
62	Composite absorbers consisting of inorganic ion-exchangers and polyacrylonitrile binding matrix. Journal of Radioanalytical and Nuclear Chemistry, 1997, 220, 65-67.	1.5	8
63	Tb magnetic moment behaviour in amorphous Tb _{1-x} Fe _x alloy: A nuclear orientation study. Solid State Communications, 1993, 87, 59-61.	1.9	4
64	Nuclear orientation study of the decay of ²⁰⁴ BiFe. European Physical Journal D, 1991, 41, 326-344.	0.4	0
65	Determination of uranium in solutions and sorbents by soft gamma-ray absorptiometry. Journal of Radioanalytical and Nuclear Chemistry, 1991, 152, 67-80.	1.5	2
66	Low temperature nuclear orientation of ²³⁸ NpGd. Hyperfine Interactions, 1990, 59, 181-184.	0.5	1
67	Low temperature nuclear orientation of ²³⁹ Np in gadolinium host. Hyperfine Interactions, 1990, 59, 185-188.	0.5	4
68	The role of the CLRh parameters in IBM-2 as exemplified by the nuclear structure of ¹⁵² Gd. Journal of Physics G: Nuclear and Particle Physics, 1990, 16, 1323-1338.	3.6	7
69	Spin-2 on-line low temperature nuclear orientation facility at YASNAPP-2 complex in JINR Dubna. Hyperfine Interactions, 1988, 43, 163-166.	0.5	4
70	Effect of pH, humus concentration and molecular weight on conditional stability constants of cadmium. Water Research, 1988, 22, 1381-1388.	11.3	27
71	Influence of aquatic humus and pH on the uptake and depuration of cadmium by the atlantic salmon (<i>Salmo Salar</i> L.). Science of the Total Environment, 1987, 62, 253-265.	8.0	24
72	A simple method of judging the acceptability of analytical methods. Analytica Chimica Acta, 1984, 157, 355-357.	5.4	1

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73	Determination of uranium by XRF analysis following its preconcentration with some organic precipitants. <i>Journal of Radioanalytical Chemistry</i> , 1983, 80, 115-120.	0.5	7
74	Determination of uranium isotopic composition in aqueous solutions by combined gamma-spectrometry and X-ray fluorescence. <i>Journal of Radioanalytical Chemistry</i> , 1983, 78, 367-374.	0.5	3
75	Behavior of radium and barium in a system including uranium mine waste waters and adjacent surface waters. <i>Environmental Science & Technology</i> , 1981, 15, 71-75.	10.0	28
76	Method of selective dissolution for characterization of particulate forms of Radium and Barium in natural and waste waters. <i>Water Research</i> , 1981, 15, 1299-1304.	11.3	17