Jan John

List of Publications by Year
in descending order

76	720	623734	610901
papers	citations	14 h-index	24 g-index

80	80	80	676
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hydrophilic sulfonated bis-1,2,4-triazine ligands are highly effective reagents for separating actinides(<scp>iii</scp>) from lanthanides(<scp>iii</scp>) via selective formation of aqueous actinide complexes. Chemical Science, 2015, 6, 4812-4821.	7.4	102
2	Title is missing!. Journal of Radioanalytical and Nuclear Chemistry, 2002, 254, 47-52.	1.5	58
3	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. European Journal of Organic Chemistry, 2012, 2012, 1509-1519.	2.4	48
4	Effective separation of Am(<scp>iii</scp>) and Eu(<scp>iii</scp>) from HNO₃ solutions using CyMe₄-BTPhen-functionalized silica-coated magnetic nanoparticles. Chemical Communications, 2014, 50, 15082-15085.	4.1	41
5	Behavior of radium and barium in a system including uranium mine waste waters and adjacent surface waters. Environmental Science & Technology, 1981, 15, 71-75.	10.0	28
6	Effect of pH, humus concentration and molecular weight on conditional stability constants of cadmium. Water Research, 1988, 22, 1381-1388.	11.3	27
7	Influence of aquatic humus and pH on the uptake and depuration of cadmium by the atlantic salmon (Salmo Salar L.). Science of the Total Environment, 1987, 62, 253-265.	8.0	24
8	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
9	Separation of the Minor Actinides Americium(III) and Curium(III) by Hydrophobic and Hydrophilic BTPhen ligands: Exploiting Differences in their Rates of Extraction and Effective Separations at Equilibrium. Solvent Extraction and Ion Exchange, 2018, 36, 115-135.	2.0	20
10	Extraction of minor actinides, lanthanides and other fission products by silica-immobilized BTBP/BTPhen ligands. Chemical Communications, 2017, 53, 4010-4013.	4.1	19
11	Method of selective dissolution for characterization of particulate forms of Radium and Barium in natural and waste waters. Water Research, 1981, 15, 1299-1304.	11.3	17
12	Composite absorbers of inorganic ion-exchangers and polyacrylonitrile binding matrix. Journal of Radioanalytical and Nuclear Chemistry, 1997, 222, 205-207.	1.5	17
13	AMP-PAN column tests for the removal of 137Cs from actual and simulated INEEL high-activity wastes. European Physical Journal D, 1999, 49, 959-964.	0.4	16
14	Radiation formation of colloidal silver particles in aqueous systems. Applied Radiation and Isotopes, 2010, 68, 676-678.	1.5	15
15	Fluorinated Carbonates as New Diluents for Extraction and Separation of f-Block Elements. Solvent Extraction and Ion Exchange, 2020, 38, 180-193.	2.0	13
16	Modelling of the Am(III) â€“ Cm(III) kinetic separation effect observed during metal ion extraction by bis-(1,2,4)-triazine ligands. Separation Science and Technology, 2018, 53, 277-285.	2.5	12
17	Separation of Am(III), Cm(III) and Eu(III) by electro-spun polystyrene-immobilized CyMe4-BTPhen. Tetrahedron, 2018, 74, 5258-5262.	1.9	11
18	Influence of diluent alkyl substitution on the extraction of Am(III) and Eu(III) by aÂ6,6Â´-bis(1,2,4-triazin-3-yl)-2,2Â´-bipyridine ligand dissolved in alkylated cyclohexanone diluents. Radiochimica Acta, 2012, 100, 747-752.	1.2	10

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19	Radiation Influencing of the Extraction Properties of the CyMe4-BTBP and CyMe4-BTPhen Solvents with FS-13. Procedia Chemistry, 2016, 21, 174-181.	0.7	10
20	Extraction of thallium and indium isotopes as the homologues of nihonium into the ionic liquids. Journal of Radioanalytical and Nuclear Chemistry, 2018, 318, 2455-2461.	1.5	10
21	Thermodynamic parameters of Am(III), Cm(III) and Eu(III) extraction by CyMe4-BTPhen in cyclohexanone from HNO3 solutions. Journal of Chemical Thermodynamics, 2020, 141, 105955.	2.0	10
22	Scientific and Engineering Literature Mini Review of Molten Salt Oxidation for Radioactive Waste Treatment and Organic Compound Gasification as well as Spent Salt Treatment. Science and Technology of Nuclear Installations, 2015, 2015, 1-10.	0.8	9
23	Polyacrylonitrile based composite materials with extracting agents containing chemically bonded CMPO groups for separation of actinoids. Journal of Radioanalytical and Nuclear Chemistry, 2015, 304, 313-319.	1.5	9
24	Composite absorbers consisting of inorganic ion-exchangers and polyacrylonitrile binding matrix. Journal of Radioanalytical and Nuclear Chemistry, 1997, 220, 65-67.	1.5	8
25	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
26	The effect of counting conditions on pure beta emitter determination by Cherenkov counting. Journal of Radioanalytical and Nuclear Chemistry, 2016, 310, 891-903.	1.5	8
27	Valence states of cyclotron-produced thallium. New Journal of Chemistry, 2021, 45, 3377-3381.	2.8	8
28	Determination of uranium by XRF analysis following its preconcentration with some organic precipitants. Journal of Radioanalytical Chemistry, 1983, 80, 115-120.	0.5	7
29	The role of the CLrhoparameters in IBM-2 as exemplified by the nuclear structure of152Gd. Journal of Physics G: Nuclear and Particle Physics, 1990, 16, 1323-1338.	3.6	7
30	Joint Bratislavaâ€“Prague studies of radiocarbon and uranium in the environment using accelerator mass spectrometry and radiometric methods. Journal of Radioanalytical and Nuclear Chemistry, 2015, 304, 67-73.	1.5	7
31	Separation of curium from americium using composite sorbents and complexing agent solutions. Journal of Radioanalytical and Nuclear Chemistry, 2015, 304, 349-355.	1.5	7
32	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
33	Radiolysis of oxalic and citric acids using gamma rays and accelerated electrons. Radiation Physics and Chemistry, 2008, 77, 884-888.	2.8	6
34	Synthesis and Screening of Modified 6,6â€²-Bis(5,5,8,8-tetramethyl-5,6,7,8-tetrahydrobenzo[e][1,2,4]triazin-3-yl)-2,2â€²-bipyridine Ligands for Actinide and Lanthanide Separation in Nuclear Waste Treatment. Journal of Organic Chemistry, 2016, 81, 10517-10520.	3.2	6
35	Synthesis of Novel BTPhen-Functionalized Silica-Coated Magnetic Nanoparticles for Separating Trivalent Actinides and Lanthanides. Synlett, 2017, 28, 2795-2799.	1.8	6
36	Separation of radionuclides from chemical and electrochemical decontamination wastes. Journal of Radioanalytical and Nuclear Chemistry, 2003, 255, 397-402.	1.5	5

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37	Characterization of solvents containing CyMe4-BTPhen in selected cyclohexanone-based diluents after irradiation by accelerated electrons. Nukleonika, 2015, 60, 885-891.	0.8	5
38	Recycling of isotopically modified molybdenum from irradiated CerMet nuclear fuel: part 1â€"concept design and assessment. Journal of Radioanalytical and Nuclear Chemistry, 2019, 320, 227-233.	1.5	5
39	Spin-2â€"on-line low temperature nuclear orientation facility at YASNAPP-2 complex in Jinr Dubna. Hyperfine Interactions, 1988, 43, 163-166.	0.5	4
40	Low temperature nuclear orientation of239Np in gadolinium host. Hyperfine Interactions, 1990, 59, 185-188.	0.5	4
41	Tb magnetic moment behaviour in amorphous Tbî—¸Fe alloy: A nuclear orientation study. Solid State Communications, 1993, 87, 59-61.	1.9	4
42	Study of sorption properties of various titanium dioxide materials. European Physical Journal D, 1999, 49, 789-795.	0.4	4
43	Separation of radionuclides from spent decontamination solutions onto selective inorganic-organic composite absorbers. European Physical Journal D, 2003, 53, A603-A610.	0.4	4
44	Thiacalixarenes: radiation stability and Eu/Am extraction in synergistic systems with COSANs. Journal of Radioanalytical and Nuclear Chemistry, 2015, 304, 257-262.	1.5	4
45	Stability of Different BTBP and BTPhen Extracting or Masking Compounds against Î³ Radiation. ACS Omega, 2021, 6, 26416-26427.	3.5	4
46	Separation of Minor Actinides from Lanthanides Using Immobilized Ligand Systems: The Role of the Counterion. Heterocycles, 2019, 99, 825.	0.7	4
47	Determination of uranium isotopic composition in aqueous solutions by combined gamma-spectrometry and X-ray fluorescence. Journal of Radioanalytical Chemistry, 1983, 78, 367-374.	0.5	3
48	Co-ordination of radiochemistry, radiochemists and meetings in Europe. European Physical Journal D, 1999, 49, 1011-1014.	0.4	3
49	Sorption of cobalt on hydrated manganese dioxide. European Physical Journal D, 1999, 49, 665-671.	0.4	3
50	Comparison of uranium extraction from model fresh water on TiOâ€"PAN and NaTiOâ€"PAN composite absorbers. Journal of Radioanalytical and Nuclear Chemistry, 2013, 298, 2057-2063.	1.5	3
51	17th Radiochemical conference: RadChem 2014 MariÃ¡nskÃ© LÃ¡znÄ›, 11â€"16th May 2014. Journal of Radioanalytical and Nuclear Chemistry, 2015, 304, 1-6.	1.5	3
52	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
53	Validation of an extraction chromatographic method with SrResinÂ® for determination of 210Pb in various matrices. European Physical Journal D, 2006, 56, D307-D314.	0.4	2
54	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

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55	Radiation and chemical stability of calix[4]arene derivatives as prospective liquid-liquid extractants. Radiochimica Acta, 2009, 97, .	1.2	2
56	Cooperation in education and training in nuclear- and radiochemistry in Europe. Journal of Radioanalytical and Nuclear Chemistry, 2015, 304, 459-466.	1.5	2
57	Separation of curium from americium using composite sorbents and complexing agent solutions: part 2. Journal of Radioanalytical and Nuclear Chemistry, 2017, 312, 685-689.	1.5	2
58	Recycling of isotopically modified molybdenum from irradiated CerMet nuclear fuel: part 3â€"strontium separation from concentrated molybdate solution. Journal of Radioanalytical and Nuclear Chemistry, 2019, 321, 277-284.	1.5	2
59	Recycling of isotopically modified molybdenum from irradiated CerMet nuclear fuel: part 2â€"caesium separation from concentrated molybdate solution. Journal of Radioanalytical and Nuclear Chemistry, 2019, 320, 377-384.	1.5	2
60	A simple method of judging the acceptability of analytical methods. Analytica Chimica Acta, 1984, 157, 355-357.	5.4	1
61	Low temperature nuclear orientation of238NpGd. Hyperfine Interactions, 1990, 59, 181-184.	0.5	1
62	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
63	New TRLFS laboratory at the CTU in Prague. European Physical Journal D, 2006, 56, D565-D568.	0.4	1
64	Study of HDEHP-PAN solid extractants for the determination of 90Sr. Journal of Radioanalytical and Nuclear Chemistry, 2010, 286, 729-734.	1.5	1
65	Comparing the Extraction of Am(III), Cm(III) and Eu(III) by CyMe4-BTPhen-Functionalized Silica and Zirconia-Coated Magnetic Nanoparticles. Heterocycles, 2016, 93, 453.	0.7	1
66	Recycling of isotopically modified molybdenum from irradiated CerMet nuclear fuel: part 4â€"technetium separation from concentrated molybdate solution. Journal of Radioanalytical and Nuclear Chemistry, 2019, 321, 775-781.	1.5	1
67	Extraction Properties of 4-Tetra(hydroxyphenyl)BTPhen in Liquid-Liquid Extraction Systems with Cyclohexanone/Octanol or in a Solid-Phase Extraction System. Heterocycles, 2020, 101, 209.	0.7	1
68	Nuclear orientation study of the decay of204BiFe. European Physical Journal D, 1991, 41, 326-344.	0.4	0
69	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
70	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
71	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
72	Separation of radiocobalt from NPP evaporator concentrate. European Physical Journal D, 2006, 56, D617-D622.	0.4	0

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73	Soils electroremediation. European Physical Journal D, 2006, 56, D629-D635.	0.4	0
74	Treatment of spent NTA-based decontamination solutions. European Physical Journal D, 2006, 56, D673-D680.	0.4	0
75	18th Radiochemical conference: RadChem 2018. Journal of Radioanalytical and Nuclear Chemistry, 2018, 318, 2177-2179.	1.5	0
76	Synthesis and Screening of a Novel (dppz)-BTPhen Ligand for the separation of Americium from Europium. Letters in Organic Chemistry, 2018, 15, 340-344.	0.5	0