

Prasanta K Mohapatra

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Chemistry of Diglycolamides: Promising Extractants for Actinide Partitioning. <i>Chemical Reviews</i> , 2012, 112, 1751-1772.	47.7	531
2	A highly efficient solvent system containing TODGA in room temperature ionic liquids for actinide extraction. <i>Separation and Purification Technology</i> , 2012, 96, 289-295.	7.9	132
3	A review on solid phase extraction of actinides and lanthanides with amide based extractants. <i>Journal of Chromatography A</i> , 2017, 1499, 1-20.	3.7	125
4	Actinide ion extraction using room temperature ionic liquids: opportunities and challenges for nuclear fuel cycle applications. <i>Dalton Transactions</i> , 2017, 46, 1730-1747.	3.3	123
5	Highly Efficient Diglycolamide-Based Task-Specific Ionic Liquids: Synthesis, Unusual Extraction Behaviour, Irradiation, and Fluorescence Studies. <i>Chemistry - A European Journal</i> , 2013, 19, 3230-3238.	3.3	113
6	Diglycolamide-Functionalized Calix[4]arenes Showing Unusual Complexation of Actinide Ions in Room Temperature Ionic Liquids: Role of Ligand Structure, Radiolytic Stability, Emission Spectroscopy, and Thermodynamic Studies. <i>Inorganic Chemistry</i> , 2013, 52, 2533-2541.	4.0	109
7	A highly efficient solvent system containing functionalized diglycolamides and an ionic liquid for americium recovery from radioactive wastes. <i>Dalton Transactions</i> , 2012, 41, 6970.	3.3	103
8	Evaluation of polymer inclusion membranes containing crown ethers for selective cesium separation from nuclear waste solution. <i>Journal of Hazardous Materials</i> , 2009, 169, 472-479.	12.4	98
9	Comparative evaluation of two substituted diglycolamide extractants for actinide partitioning. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2010, 284, 377-385.	1.5	98
10	Extraction of Am(III) using novel solvent systems containing a tripodal diglycolamide ligand in room temperature ionic liquids: a "green" approach for radioactive waste processing. <i>RSC Advances</i> , 2012, 2, 7492.	3.6	98
11	A novel CMPO-functionalized task specific ionic liquid: synthesis, extraction and spectroscopic investigations of actinide and lanthanide complexes. <i>Dalton Transactions</i> , 2013, 42, 4343.	3.3	94
12	Facilitated transport of americium(III) from nitric acid media using dimethyldibutyltetradecyl-1,3-malonamide. <i>Journal of Membrane Science</i> , 2000, 177, 163-175.	8.2	93
13	Separation of trivalent actinides and lanthanides using various N ⁺ , S ⁺ and mixed N,O donor ligands: a review. <i>Radiochimica Acta</i> , 2019, 107, 931-949.	1.2	91
14	Preorganization of diglycolamides on the calix[4]arene platform and its effect on the extraction of Am(III)/Eu(III). <i>Tetrahedron</i> , 2012, 68, 7840-7847.	1.9	84
15	Transport of Americium(III) through a supported liquid membrane containing N,N,N',N'-tetraoctyl-3-oxapentane diamide (TODGA) in n-dodecane as the carrier. <i>Journal of Membrane Science</i> , 2006, 282, 133-141.	8.2	81
16	Ditopic CMPO-pillar[5]arenes as unique receptors for efficient separation of americium(III) and europium(III). <i>Chemical Communications</i> , 2015, 51, 4263-4266.	4.1	80
17	Recovery of Actinides and Lanthanides from High-Level Waste Using Hollow-Fiber Supported Liquid Membrane with TODGA as the Carrier. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 8605-8612.	3.7	75
18	Selective Americium(III) Complexation by Dithiophosphinates: A Density Functional Theoretical Validation for Covalent Interactions Responsible for Unusual Separation Behavior from Trivalent Lanthanides. <i>Inorganic Chemistry</i> , 2011, 50, 3913-3921.	4.0	75

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19	Separation of Americium(III) and Europium(III) from Nitrate Medium Using a Binary Mixture of Cyanex®301 with N-Donor Ligands. Solvent Extraction and Ion Exchange, 2006, 24, 1-17.	2.0	71
20	Complexation of novel diglycolamide functionalized calix[4]arenes: Unusual extraction behaviour, transport, and fluorescence studies. Dalton Transactions, 2012, 41, 360-363.	3.3	67
21	A diglycolamide-functionalized task specific ionic liquid (TSIL) for actinide extraction: Solvent extraction, thermodynamics and radiolytic stability studies. Separation and Purification Technology, 2013, 118, 264-270.	7.9	67
22	Evaluation of calix-crown ionophores for selective separation of radio-caesium from acidic nuclear waste solution. Analytica Chimica Acta, 2006, 571, 308-314.	5.4	64
23	Evaluation of a supported liquid membrane containing a macrocyclic ionophore for selective removal of strontium from nuclear waste solution. Journal of Membrane Science, 2006, 275, 82-88.	8.2	62
24	Efficient solvent system containing malonamides in room temperature ionic liquids: actinide extraction, fluorescence and radiolytic degradation studies. Dalton Transactions, 2013, 42, 1519-1529.	3.3	61
25	Unique selectivity reversal in Am ³⁺ –Eu ³⁺ extraction in a tripodal TREN-based diglycolamide in ionic liquid: extraction, luminescence, complexation and structural studies. Dalton Transactions, 2016, 45, 2476-2484.	3.3	61
26	Uptake of Metal Ions by Extraction Chromatography Using Dimethyl Dibutyl Tetradecyl-1,3-malonamide (DMDBDMA) as the Stationary Phase. Separation Science and Technology, 2000, 35, 39-55.	2.5	58
27	Development of T2EHDGA Based Process for Actinide Partitioning. Part I: Batch Studies for Process Optimization. Solvent Extraction and Ion Exchange, 2010, 28, 350-366.	2.0	58
28	Actinide Partitioning with a Modified TODGA Solvent: Counter-Current Extraction Studies with Simulated High Level Waste. Solvent Extraction and Ion Exchange, 2012, 30, 156-170.	2.0	58
29	Auto-Assembling of Ditopic Macrocyclic Lanthanide Chelates with Transition-Metal Ions. Rigid Multimetallic High Relaxivity Contrast Agents for Magnetic Resonance Imaging. Inorganic Chemistry, 2006, 45, 5092-5102.	4.0	57
30	Complexation thermodynamics of diglycolamide with f-elements: solvent extraction and density functional theory analysis. Physical Chemistry Chemical Physics, 2016, 18, 9816-9828.	2.8	57
31	Selective transport of cesium using a supported liquid membrane containing di-t-butyl benzo 18 crown 6 as the carrier. Journal of Membrane Science, 2004, 232, 133-139.	8.2	54
32	Evaluation of N,N,N',N'-tetraoctyl-3-oxapentane-diamide (TODGA) as a mobile carrier in remediation of nuclear waste using supported liquid membrane. Journal of Membrane Science, 2007, 298, 169-174.	8.2	54
33	Demonstration of T2EHDGA Based Process for Actinide Partitioning Part II: Counter-Current Extraction Studies. Solvent Extraction and Ion Exchange, 2010, 28, 764-777.	2.0	54
34	Benzene-centered tripodal diglycolamides: synthesis, metal ion extraction, luminescence spectroscopy, and DFT studies. Dalton Transactions, 2017, 46, 1431-1438.	3.3	53
35	Studies on uranium(VI) pertraction across a N,N,N',N'-tetraoctyldiglycolamide (TODGA) supported liquid membrane. Journal of Membrane Science, 2009, 337, 274-281.	8.2	52
36	Extraction of radiostromtium from nuclear waste solution using crown ethers in room temperature ionic liquids. Supramolecular Chemistry, 2012, 24, 771-778.	1.2	52

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37	Solvent Extraction and Extraction Chromatographic Separation of Am ³⁺ and Eu ³⁺ from Nitrate Medium using Cyanex®301. <i>Solvent Extraction and Ion Exchange</i> , 2007, 25, 27-39.	2.0	50
38	Evaluation of a calix[4]-bis-crown-6 ionophore-based supported liquid membrane system for selective ¹³⁷ Cs transport from acidic solutions. <i>Journal of Membrane Science</i> , 2008, 310, 229-236.	8.2	49
39	Highly efficient extraction of actinides with pillar[5]arene-derived diglycolamides in ionic liquids via a unique mechanism involving competitive host-guest interactions. <i>Dalton Transactions</i> , 2016, 45, 19299-19310.	3.3	49
40	Separation of Am(III) and trivalent lanthanides from simulated high-level waste using a hollow fiber-supported liquid membrane. <i>Separation and Purification Technology</i> , 2008, 63, 239-242.	7.9	48
41	Transport of cobalt(II) through a hollow fiber supported liquid membrane containing di-(2-ethylhexyl) phosphoric acid (D2EHPA) as the carrier. <i>Chemical Engineering Research and Design</i> , 2013, 91, 141-157.	5.6	47
42	Dicyclohexano 18 crown 6 in butanol-octanol mixture: A promising extractant of Sr(II) from nitric acid medium. <i>Talanta</i> , 1997, 45, 387-395.	5.5	46
43	A novel malonamide grafted polystyrene-divinyl benzene resin for extraction, pre-concentration and separation of actinides. <i>Journal of Hazardous Materials</i> , 2009, 161, 1323-1329.	12.4	46
44	Evaluation of a novel tripodal diglycolamide for actinide extraction: Solvent extraction and SLM transport studies. <i>Journal of Membrane Science</i> , 2011, 375, 141-149.	8.2	45
45	Extraction of uranyl ion from nitric acid medium using solvent containing TOPO and its mixture with D2EHPA in room temperature ionic liquids. <i>Separation and Purification Technology</i> , 2014, 133, 69-75.	7.9	45
46	Novel polymer inclusion membrane containing a macrocyclic ionophore for selective removal of strontium from nuclear waste solution. <i>New Journal of Chemistry</i> , 2004, 28, 1004-1009.	2.8	44
47	Diglycolamide-Based Solvent Systems in Room Temperature Ionic Liquids for Actinide Ion Extraction: A Review. <i>Chemical Product and Process Modeling</i> , 2015, 10, 135-145.	0.9	44
48	Solvent extraction systems for mutual separation of Am(III) and Cm(III) from nitric acid solutions. A review of recent state-of-the-art. <i>Solvent Extraction and Ion Exchange</i> , 2021, 39, 679-713.	2.0	44
49	Evaluation of two calix-crown-6 ligands for the recovery of radio cesium from nuclear waste solutions: Solvent extraction and liquid membrane studies. <i>Journal of Membrane Science</i> , 2013, 429, 197-205.	8.2	42
50	Separation of trivalent actinides from lanthanides using hollow fiber supported liquid membrane containing Cyanex-301 as the carrier. <i>Journal of Membrane Science</i> , 2008, 312, 1-5.	8.2	41
51	Extraction of neodymium from nitric acid feed solutions using an emulsion liquid membrane containing TOPO and DNPPA as the carrier extractants. <i>Chemical Engineering Research and Design</i> , 2015, 98, 89-95.	5.6	41
52	Ethyl-bis-triazinylpyridine (Et-BTP) for the separation of americium(III) from trivalent lanthanides using solvent extraction and supported liquid membrane methods. <i>Hydrometallurgy</i> , 2009, 99, 18-24.	4.3	40
53	Remarkable acidity independent actinide extraction with a both-side diglycolamide-functionalized calix[4]arene. <i>Dalton Transactions</i> , 2013, 42, 8558.	3.3	40
54	Non-dispersive solvent extraction of neodymium using a hollow fiber contactor: Mass transfer and modeling studies. <i>Journal of Membrane Science</i> , 2013, 446, 106-112.	8.2	40

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55	Diglycolamide-functionalized task specific ionic liquids for nuclear waste remediation: extraction, luminescence, theoretical and EPR investigations. RSC Advances, 2014, 4, 46613-46623.	3.6	40
56	Selective separation of radio-caesium from acidic solutions using supported liquid membrane containing chlorinated cobalt dicarbollide (CCD) in phenyltrifluoromethyl sulphone (PTMS). Journal of Hazardous Materials, 2010, 181, 679-685.	12.4	38
57	Extraction of ternary complexes of thorium(IV) with 3-phenyl-4-benzoyl-5-isoxazolone and neutral donors from nitric acid medium. Talanta, 1996, 43, 1305-1312.	5.5	37
58	Facilitated transport of uranium(VI) across supported liquid membranes containing T2EHDGA as the carrier extractant. Journal of Hazardous Materials, 2011, 188, 281-287.	12.4	37
59	A trialkyl phosphine oxide functionalized task specific ionic liquid for actinide ion complexation: extraction and spectroscopic studies. RSC Advances, 2016, 6, 19763-19767.	3.6	37
60	Uranium pertraction across a PTFE flatsheet membrane containing Aliquat 336 as the carrier. Separation and Purification Technology, 2006, 51, 24-30.	7.9	36
61	Synthesis of N,N-dimethyl-N-dibutyl malonamide functionalized polymer and its sorption affinities towards U(VI) and Th(IV) ions. Talanta, 2007, 73, 878-885.	5.5	36
62	Investigations on Preferential Pu(IV) Extraction over U(VI) by N-Dihexyloctanamide versus Tri-n-butyl Phosphate: Evidence through Small Angle Neutron Scattering and DFT Studies. Journal of Physical Chemistry A, 2014, 118, 3996-4004.	2.5	36
63	Extraction chromatography of lanthanides using N,N-tetraoctyl diglycolamide (TODGA) as the stationary phase. Desalination, 2008, 229, 294-301.	8.2	35
64	Radiolytic Stability of N,N-Tetraoctyl Diglycolamide (TODGA) in the Presence of Phase Modifiers Dissolved in n-Dodecane. Solvent Extraction and Ion Exchange, 2012, 30, 278-290.	2.0	35
65	Juddâ€‘Ofelt parameters of diglycolamide-functionalized calix[4]arene Eu ³⁺ complexes in room temperature ionic liquid for structural analysis: Effects of solvents and ligand stereochemistry. Journal of Luminescence, 2014, 148, 174-180.	3.1	35
66	Performance of some extractants used for actinide partitioning in a comparative hollow fibre supported liquid membrane transport study using simulated high level nuclear waste. Journal of Membrane Science, 2009, 337, 304-309.	8.2	34
67	Mass transport modeling of Cs(I) through hollow fiber supported liquid membrane containing calix-[4]-bis(2,3-naphtho)-crown-6 as the mobile carrier. Chemical Engineering Journal, 2011, 174, 110-116.	12.7	34
68	A highly efficient supported liquid membrane system for selective strontium separation leading to radioactive waste remediation. Journal of Membrane Science, 2012, 390-391, 76-83.	8.2	34
69	Transport studies of uranium across a supported liquid membrane containing N,N-di(2-ethylhexyl) isobutyramide (D2EHIBA) as the carrier. Journal of Membrane Science, 2006, 272, 143-151.	8.2	33
70	Liquidâ€‘liquid extraction and flat sheet supported liquid membrane studies on Am(III) and Eu(III) separation using 2,6-bis(5,6-dipropyl-1,2,4-triazin-3-yl)pyridine as the extractant. Journal of Hazardous Materials, 2011, 195, 238-244.	12.4	33
71	Role of alkyl chain branching on aggregation behavior of two symmetrical diglycolamides: Small angle neutron scattering studies. Journal of Colloid and Interface Science, 2013, 393, 347-351.	9.4	33
72	Effect of Successive Alkylation of N-Dialkyl Amides on the Complexation Behavior of Uranium and Thorium: Solvent Extraction, Small Angle Neutron Scattering, and Computational Studies. Journal of Physical Chemistry B, 2014, 118, 14388-14396.	2.6	33

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73	Extraction of cesium-137 from nitric acid medium in the presence of macrocyclic polyethers. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1998, 229, 169-172.	1.5	32
74	Ion-pair extraction of uranyl ion from aqueous medium using crown ethers. <i>Talanta</i> , 1998, 47, 1271-1278.	5.5	32
75	Separation of ⁹⁰ Y from ⁹⁰ Sr using zirconium vanadate as the ion exchanger. <i>Applied Radiation and Isotopes</i> , 2004, 60, 621-624.	1.5	32
76	Diluent effect on Sr(II) extraction using di-tert-butyl cyclohexano 18 crown 6 as the extractant and its correlation with transport data obtained from supported liquid membrane studies. <i>Desalination</i> , 2006, 198, 166-172.	8.2	31
77	Comparative dispersion-free solvent extraction of Uranium(VI) and Thorium(IV) by TBP and dialkyl amides using a hollow fiber contactor. <i>Separation and Purification Technology</i> , 2016, 159, 161-168.	7.9	31
78	An Insight into Third-Phase Formation during the Extraction of Thorium Nitrate: Evidence for Aggregate Formation from Small-Angle Neutron Scattering and Validation by Computational Studies. <i>Journal of Physical Chemistry B</i> , 2013, 117, 9821-9828.	2.6	30
79	Solvent system containing CMPO as the extractant in a diluent mixture containing n-dodecane and isodecanol for actinide partitioning runs. <i>Hydrometallurgy</i> , 2014, 147-148, 228-233.	4.3	30
80	Separation of trivalent actinides and lanthanides using a flat sheet supported liquid membrane containing Cyanex-301 as the carrier. <i>Separation and Purification Technology</i> , 2006, 50, 278-281.	7.9	29
81	Use of Calix[4]-bis-2,3-naphthocrown-6 for Separation of Cesium from Pressurized Heavy Water Reactor Simulated High Level Waste Solutions (PHWR-SHLW). <i>Separation Science and Technology</i> , 2009, 44, 3664-3678.	2.5	29
82	A remarkable enhancement in Am ³⁺ /Eu ³⁺ selectivity by an ionic liquid based solvent containing bis-1,2,4-triazinyl pyridine derivatives: DFT validation of experimental results. <i>Dalton Transactions</i> , 2015, 44, 6193-6201.	3.3	29
83	Distribution Behavior of U(VI), Th(IV), and Fission Products with Di(2-ethylhexyl) Isobutyramide under Process Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 4369-4375.	3.7	28
84	Spectacular enhancements in actinide ion uptake using novel extraction chromatography resins containing TODGA and ionic liquid. <i>Separation and Purification Technology</i> , 2015, 141, 229-234.	7.9	28
85	Extraction of actinides by tertiary amines in room temperature ionic liquids: evidence for anion exchange as a major process at high acidity and impact of acid nature. <i>RSC Advances</i> , 2015, 5, 35821-35829.	3.6	28
86	Studies on neptunium complexation with CMPO- and diglycolamide-functionalized ionic liquids: experimental and computational studies. <i>New Journal of Chemistry</i> , 2017, 41, 836-844.	2.8	28
87	Cs ⁺ sorption onto Kutch clays: Influence of competing ions. <i>Applied Clay Science</i> , 2018, 166, 88-93.	5.2	28
88	Complexation of trivalent lanthanides and actinides with several novel diglycolamide-functionalized calix[4]arenes: solvent extraction, luminescence and theoretical studies. <i>RSC Advances</i> , 2013, 3, 9296.	3.6	27
89	Hollow fiber supported liquid membrane studies using a process compatible solvent containing calix[4]arene-mono-crown-6 for the recovery of radio-cesium from nuclear waste. <i>Separation and Purification Technology</i> , 2016, 170, 208-216.	7.9	27
90	Understanding the complexation of Eu ³⁺ with three diglycolamide-functionalized calix[4]arenes: spectroscopic and DFT studies. <i>Dalton Transactions</i> , 2016, 45, 5425-5429.	3.3	27

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91	Complexation of Americium(III) with Crown Ethers in Aqueous Phase. <i>Radiochimica Acta</i> , 1991, 55, 193-198.	1.2	26
92	Selective transport of radio-caesium by supported liquid membranes containing calix[4]crown-6 ligands as the mobile carrier. <i>Desalination</i> , 2008, 232, 262-271.	8.2	26
93	Transport of cesium using hollow fiber supported liquid membrane containing calix[4]arene-bis(2,3-naphtho)crown-6 as the carrier extractant: Part II. Recovery from simulated high level waste and mass transfer modeling. <i>Journal of Membrane Science</i> , 2011, 384, 37-43.	8.2	26
94	Benzene-centred tripodal diglycolamides for the sequestration of trivalent actinides: metal ion extraction and luminescence spectroscopic investigations in a room temperature ionic liquid. <i>Dalton Transactions</i> , 2017, 46, 11355-11362.	3.3	26
95	Separation of ^{90}Y from ^{90}Sr by a solvent extraction method using N,N,N',N'-tetraoctyl diglycolamide (TODGA) as the extractant. <i>Applied Radiation and Isotopes</i> , 2011, 69, 158-162.	1.5	25
96	Role of organic diluents on Am(III) extraction and transport behaviour using N,N,N',N'-tetraoctyl-3-oxapentanediamide as the extractant. <i>Journal of Membrane Science</i> , 2012, 403-404, 71-77.	8.2	25
97	Comparative evaluation of actinide ion uptake by polymer inclusion membranes containing TODGA as the carrier extractant. <i>Journal of Hazardous Materials</i> , 2014, 275, 146-153.	12.4	25
98	Diglycolamide-functionalized poly(propylene imine) diaminobutane dendrimers for sequestration of trivalent f-elements: synthesis, extraction and complexation. <i>Dalton Transactions</i> , 2017, 46, 501-508.	3.3	25
99	Anion-exchange behavior of Mo and W as homologs of Sg (element 106) in HCl and HNO ₃ as well as in mixed HCl-HF and HNO ₃ -HF solutions. <i>Radiochimica Acta</i> , 2004, 92, .	1.2	24
100	Pertraction of plutonium in the +4 oxidation state through a supported liquid membrane containing TODGA as the carrier. <i>Desalination</i> , 2010, 262, 57-63.	8.2	24
101	Multi-podant diglycolamides and room temperature ionic liquid impregnated resins: An excellent combination for extraction chromatography of actinides. <i>Journal of Chromatography A</i> , 2016, 1448, 58-66.	3.7	24
102	Remarkable Enhancement in Extraction of Trivalent f-Block Elements Using a Macrocyclic Ligand with Four Diglycolamide Arms: Synthesis, Extraction, and Spectroscopic and Density Functional Theory Studies. <i>Inorganic Chemistry</i> , 2019, 58, 14885-14899.	4.0	24
103	Separation of neptunium and plutonium from acidic medium using 3-phenyl-4-benzoyl-5-isoxazolone. <i>Radiochimica Acta</i> , 2002, 90, 323-327.	1.2	23
104	Role of alkyl substituent in room temperature ionic liquid on the electrochemical behavior of uranium ion and its local environment. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013, 298, 209-217.	1.5	23
105	Two novel extraction chromatography resins containing multiple diglycolamide-functionalized ligands: Preparation, characterization and actinide uptake properties. <i>Journal of Chromatography A</i> , 2014, 1334, 79-86.	3.7	23
106	Insight into the Complexation of Actinides and Lanthanides with Diglycolamide Derivatives: Experimental and Density Functional Theoretical Studies. <i>Journal of Physical Chemistry B</i> , 2017, 121, 2640-2649.	2.6	23
107	Separation of Am^{3+} and Eu^{3+} using hexa-n-octyl-nitrilo triacetamide (HONTA): complexation, extraction, luminescence, EXAFS and DFT studies. <i>Dalton Transactions</i> , 2017, 46, 16631-16639.	3.3	23
108	Structural investigations on uranium(VI) and thorium(IV) complexation with TBP and DHOA: a spectroscopic study. <i>New Journal of Chemistry</i> , 2018, 42, 5243-5255.	2.8	23

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109	Liquid-liquid extraction and facilitated transport of f-elements using an N-pivot tripodal ligand. <i>Journal of Hazardous Materials</i> , 2018, 347, 478-485.	12.4	23
110	First Report on the Complexation of Actinides and Lanthanides Using 2,2â€²,2â€²â€²-(((1,4,7-Triazonane-1,4,7-triyl)tris(2-oxoethane-2,1-diyl)) tris(oxy)) tris(<i>N,N,N,N</i> -dioctylacetamide): Synthesis, Extraction, Luminescence, EXAFS, and DFT Studies. <i>Inorganic Chemistry</i> , 2018, 57, 12987-12998.	4.0	23
111	Hydrolysis of actinides and lanthanides: hydrolysis of some trivalent actinide and lanthanide ions studied by extraction with thenoyltrifluoroacetone. <i>Polyhedron</i> , 1989, 8, 2071-2076.	2.2	22
112	Cation transport across plasticized polymeric membranes containing <i>N,N,N,N</i> -tetraoctyl-3-oxapentanediamide(TODGA) as the carrier. <i>Desalination</i> , 2010, 262, 196-201.	8.2	22
113	Unusual extraction of trivalent f-cations using diglycolamide dendrimers in a room temperature ionic liquid: extraction, spectroscopic and DFT studies. <i>Dalton Transactions</i> , 2017, 46, 16541-16550.	3.3	22
114	Eu(III) sorption onto various montmorillonites: Experiments and modeling. <i>Applied Clay Science</i> , 2019, 175, 22-29.	5.2	22
115	Extraction of Radiostrontium from Nitric Acid Medium Using Di- <i>t</i> -Butyl Cyclohexano 18Crown6 in an Aliphatic Alcohol Mixture Diluent. <i>Radiochimica Acta</i> , 1999, 85, 113-118.	1.2	21
116	Uranium transport using a PTFE flat-sheet membrane containing alamine 336 in toluene as the carrier. <i>Desalination</i> , 2004, 163, 13-18.	8.2	21
117	Solid phase extraction of europium and uranium using Tulsion CH-90 resin. <i>Desalination</i> , 2008, 232, 216-224.	8.2	21
118	Spectroscopic investigations of Eu ³⁺ -complexes with ligands containing multiple diglycolamide pendant arms in a room temperature ionic liquid. <i>Journal of Luminescence</i> , 2014, 154, 392-401.	3.1	21
119	Separation of neptunium (IV) from actinides by solid phase extraction using a resin containing Aliquat 336. <i>Journal of Chromatography A</i> , 2018, 1564, 94-101.	3.7	21
120	Highly efficient actinide(III)/lanthanide(III) separation by novel pillar[5]arene-based picolinamide ligands: A study on synthesis, solvent extraction and complexation. <i>Journal of Hazardous Materials</i> , 2021, 405, 124214.	12.4	21
121	Role of ligand basicity and stereochemistry in the extraction of plutonium(IV) isoxazonates. <i>Radiochimica Acta</i> , 2003, 91, 705-712.	1.2	20
122	Chromatographic separation of carrier free ⁹⁰ Y from ⁹⁰ Sr using a diglycolamide based resin for possible pharmaceutical applications. <i>Journal of Chromatography A</i> , 2011, 1218, 6483-6488.	3.7	20
123	A comparative study of the complexation of Am(III) and Eu(III) with TODGA in room temperature ionic liquid. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013, 298, 405-412.	1.5	20
124	A Novel PVC Based Polymer Inclusion Membrane Containing TODGA as the Extractant for the Pre-concentration of Americium from Acidic Feed Solutions. <i>Separation Science and Technology</i> , 2013, 48, 2499-2505.	2.5	20
125	Experimental measurements and correlation of the solubility of <i>N,N</i> -dialkylamides in supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2019, 143, 162-170.	3.2	20
126	Highly Efficient <i>N</i> -Pivot Tripodal Diglycolamide Ligands for Trivalent f-Cations: Synthesis, Extraction, Spectroscopy, and Density Functional Theory Studies. <i>Inorganic Chemistry</i> , 2019, 58, 8633-8644.	4.0	20

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127	Transport of Thorium(IV) Across a Supported Liquid Membrane Containing N,N,Nâ€²,Nâ€²-Tetraoctyl-3-oxapentanediamide (TODGA) as the Extractant. Separation Science and Technology, 2010, 45, 1112-1120.	2.5	19
128	Unusual transport behaviour of actinide ions with a novel calix[4]arene-tetra-diglycolamide (C4DGA) extractant as the carrier. Journal of Membrane Science, 2012, 411-412, 64-72.	8.2	19
129	A novel solvent system containing a dipicolinamide in room temperature ionic liquids for actinide ion extraction. Journal of Radioanalytical and Nuclear Chemistry, 2015, 305, 521-528.	1.5	19
130	Binding of pyrazine-functionalized calix[4]arene ligands with lanthanides in an ionic liquid: thermodynamics and coordination modes. Dalton Transactions, 2015, 44, 6416-6422.	3.3	19
131	Extraction of uranium(VI) from nitric acid solutions using N,N-dihexyloctanamide in ionic liquids: Solvent extraction and spectroscopic studies. Solvent Extraction and Ion Exchange, 2017, 35, 423-438.	2.0	19
132	Evaluation of two aza-crown ether-based multiple diglycolamide-containing ligands for complexation with the tetravalent actinide ions Np ⁴⁺ and Pu ⁴⁺ : extraction and DFT studies. RSC Advances, 2019, 9, 31928-31935.	3.6	19
133	Highly efficient separation of thorium from uranium in nitric acid feeds by solid phase extraction using Aliquat 336. Separation and Purification Technology, 2020, 237, 116318.	7.9	19
134	Role of diluent on the extraction and transport of strontium using 4,4â€²(5â€²)di-tert-butyl-dicyclohexano-18-crown-6 (DTBCH18C6) as the extractant. Radiochimica Acta, 2009, 97, .	1.2	18
135	Separation of Carrier Free ⁹⁰ Y from ⁹⁰ Sr by Hollow Fiber Supported Liquid Membrane Containing Bis(2-ethylhexyl) Phosphonic Acid. Separation Science and Technology, 2011, 46, 904-911.	2.5	18
136	Studies on the radiolytic stability of N,N,Nâ€²,Nâ€²-tetra-2-ethylhexyl diglycolamide in n-dodecane solution containing different phase modifiers. Journal of Radioanalytical and Nuclear Chemistry, 2011, 288, 621-627.	1.5	18
137	Supported liquid membrane transport studies on Am(III), Pu(IV), U(VI) and Sr(II) using irradiated TODGA. Journal of Hazardous Materials, 2012, 237-238, 339-346.	12.4	18
138	Liquidâ€“liquid extraction and pertraction behavior of Am(III) and Sr(II) with diglycolamide carrier extractants. Journal of Membrane Science, 2012, 399-400, 28-36.	8.2	18
139	Solid phase extraction of trivalent actinides and lanthanides using a novel CMPO-RTIL based chromatographic resin. Radiochimica Acta, 2013, 101, 163-168.	1.2	18
140	Novel diglycolamide-functionalized calix[4]arenes for actinide extraction and supported liquid membrane studies: Role of substituents in the pendent arms and mass transfer modeling. Journal of Membrane Science, 2013, 430, 304-311.	8.2	18
141	An Insight into the Complexation of Pyrazine-Functionalized Calix[4]arenes with Am ³⁺ and Eu ³⁺ - Solvent Extraction and Luminescence Studies in Room-Temperature Ionic Liquids. European Journal of Inorganic Chemistry, 2014, 2014, 5689-5697.	2.0	18
142	An insight into the complexation of UO ₂ ²⁺ with diglycolamide-functionalized task specific ionic liquid: Kinetic, cyclic voltammetric, extraction and spectroscopic investigations. Polyhedron, 2015, 102, 549-555.	2.2	18
143	Extraction of Uranyl Ion Using 2-Thenoyltrifluoro Acetone (HTTA) in Room Temperature Ionic Liquids. Separation Science and Technology, 2015, 50, 380-386.	2.5	18
144	Thermodynamics of biphasic lanthanide extraction by tripodal diglycolamide: a solution calorimetry study. Dalton Transactions, 2016, 45, 17216-17222.	3.3	18

#	ARTICLE	IF	CITATIONS
145	Complexation of tetraalkyl diglycolamides with trivalent f-cations in a room temperature ionic liquid: extraction and spectroscopic investigations. Dalton Transactions, 2017, 46, 7584-7593.	3.3	18
146	Ruthenium speciation in radioactive wastes and state-of-the-art strategies for its recovery: A review. Separation and Purification Technology, 2021, 275, 119148.	7.9	18
147	3-Phenyl-4-benzoyl-5-isoxazolone: A promising chelate extractant for actinide separation from acidic nuclear waste solutions. Analytica Chimica Acta, 1996, 320, 151-154.	5.4	17
148	Separation and purification of americium from analytical waste solutions. Journal of Radioanalytical and Nuclear Chemistry, 2010, 283, 777-783.	1.5	17
149	Extraction of Am(III) and Eu(III) from nitrate media with Cyanex [®] -301 and neutral π -donor ligands: A thermodynamic study. Radiochimica Acta, 2010, 98, .	1.2	17
150	Effect of temperature on pseudoternary system Tween-80-butanol-hexane-water. Journal of Colloid and Interface Science, 2011, 355, 157-163.	9.4	17
151	Counter-Current Extraction of Neptunium from Simulated Pressurized Heavy Water Reactor High Level Waste Using N,N,N',N'-Tetraoctyl Diglycolamide. Solvent Extraction and Ion Exchange, 2012, 30, 457-468.	2.0	17
152	A highly efficient supported liquid membrane system for near quantitative recovery of radio-strontium from acidic feeds. Part II: Scale up and mass transfer modeling in hollow fiber configuration. Journal of Membrane Science, 2012, 405-406, 85-91.	8.2	17
153	Polymeric beads containing Cyanex 923 for actinide uptake from nitric acid medium: Studies with uranium and plutonium. Journal of Chromatography A, 2013, 1305, 48-54.	3.7	17
154	Extraction of some Hexavalent Actinide Ions from Nitric Acid Medium using Several Substituted Diglycolamides. Solvent Extraction and Ion Exchange, 2014, 32, 637-649.	2.0	17
155	Extracted species of Np(IV) complex with diglycolamide functionalized task specific ionic liquid: diffusion, kinetics and thermodynamics by cyclic voltammetry. Journal of Radioanalytical and Nuclear Chemistry, 2015, 304, 563-570.	1.5	17
156	Polymer Inclusion Membrane Containing a Tripodal Diglycolamide Ligand: Actinide Ion Uptake and Transport Studies. Industrial & Engineering Chemistry Research, 2016, 55, 2202-2209.	3.7	17
157	First Report on the Separation of Trivalent Lanthanides from Trivalent Actinides Using an Aqueous Soluble Multiple N-Donor Ligand, 2,6-bis(1H-tetrazol-5-yl)pyridine: Extraction, Spectroscopic, Structural, and Computational Studies. Inorganic Chemistry, 2018, 57, 5096-5107.	4.0	17
158	Adduct Formation of a Uranyl Isoxazonolate with Organophilic Neutral Oxodonors. Radiochimica Acta, 1996, 72, 127-132.	1.2	16
159	Separation of Am ³⁺ and Eu ³⁺ using an extraction chromatographic resin containing bis(2,4,4-trimethylpentyl)dithiophosphinic acid as the stationary phase. Journal of Chromatography A, 2006, 1123, 26-30.	3.7	16
160	Transport of thorium from nitric acid solution by non-dispersive solvent extraction using a hollow fibre contactor. Desalination, 2008, 232, 272-280.	8.2	16
161	Non-Dispersive Solvent Extraction and Stripping of Neodymium (III) using a Hollow Fiber Contactor with TODGA as the Extractant. Separation Science and Technology, 2011, 46, 765-773.	2.5	16
162	Mathematical modeling of Cs(I) transport through flat sheet supported liquid membrane using calix-[4]-bis(2,3-naphtho)-18-crown-6 as the mobile carrier. Desalination, 2011, 278, 405-411.	8.2	16

#	ARTICLE	IF	CITATIONS
163	Role of diluent on the separation of ⁹⁰ Y from ⁹⁰ Sr by solvent extraction and supported liquid membrane using T2EHDGA as the extractant. <i>Applied Radiation and Isotopes</i> , 2012, 70, 670-675.	1.5	16
164	Uranium(VI) pertraction across a supported liquid membrane containing a branched diglycolamide carrier extractant: Part III. <i>Desalination</i> , 2012, 285, 213-218.	8.2	16
165	Evaluation of polymer inclusion membranes containing calix[4]-bis-2,3-naphtho-crown-6 for Cs recovery from acidic feeds: Transport behavior, morphology and modeling studies. <i>Journal of Membrane Science</i> , 2012, 407-408, 17-26.	8.2	16
166	Modified synthesis scheme for <i>N,N</i> -di- <i>n</i> -butyl- <i>N</i> -(2-hydroxyethyl)- <i>N</i> -(2-hydroxyethyl) malonamide (DMDOHEMA) and its comparison with proposed solvents for actinide partitioning. <i>Radiochimica Acta</i> , 2013, 101, 93-100.	1.2	16
167	Diglycolamide-Functionalized Calix[4]arene for Am(III) Recovery from Radioactive Wastes: Liquid Membrane Studies Using a Hollow Fiber Contactor. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 1740-1747.	3.7	16
168	Radiation stability of diglycolamide functionalized calix[4]arenes in ionic liquid: Solvent extraction, EPR and GC-MS studies. <i>Separation and Purification Technology</i> , 2016, 162, 77-83.	7.9	16
169	On-line anion exchange of rutherfordium in HF/HNO ₃ and HF solutions. <i>Radiochimica Acta</i> , 2004, 92, 379-386.	1.2	15
170	Comparative extraction efficiencies of tri- <i>n</i> -butyl phosphate and <i>N,N</i> -dihexyloctanamide for uranium recovery using supercritical CO ₂ . <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2010, 283, 789-796.	1.5	15
171	Selective caesium transport using hollow fibre-supported liquid membrane containing calix[4]arene-bis-naphthocrown-6 as the carrier extractant. <i>Radiochimica Acta</i> , 2010, 98, 493-498.	1.2	15
172	Studies on the radiolytic stability of newly developed solvent systems containing four calix-crown-6 ligands for radio-caesium recovery. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 302, 1087-1093.	1.5	15
173	Extractive complexation of lanthanides and Am(III) by 1-phenyl-3-methyl-4-benzoyl-5-pyrazolone in ionic liquid: Solvent extraction and spectroscopic studies. <i>Inorganic Chemistry Communication</i> , 2016, 73, 72-76.	3.9	15
174	Solubility of tri- <i>n</i> -butyl phosphate in supercritical carbon dioxide and its application to selective extraction of uranium. <i>Separation Science and Technology</i> , 2017, 52, 2224-2237.	2.5	15
175	Unusual selective extraction of Pu ⁴⁺ by some novel diamide ligands in a room temperature ionic liquid. <i>Separation and Purification Technology</i> , 2017, 181, 69-75.	7.9	15
176	Ion-pair extraction of tetravalent plutonium from hydrochloric acid medium using crown ethers. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 1996, 25, 257-265.	1.6	14
177	Pu-Th separation studies employing di(2-ethylhexyl)isobutyramide (D2EHIBA) as extractant from nitric acid medium. <i>Radiochimica Acta</i> , 2003, 91, 379-384.	1.2	14
178	Transport of uranium from nitric acid solution by non-dispersive solvent extraction using a hollow fibre contactor. <i>Radiochimica Acta</i> , 2006, 94, 331-334.	1.2	14
179	Transport of lanthanides and fission products through supported liquid membranes containing <i>N,N,N',N'</i> -tetraoctyl diglycolamide (TODGA) as the carrier. <i>Desalination</i> , 2008, 232, 254-261.	8.2	14
180	Temperature Induced Emulsification and Demulsification of Pseudoternary Mixtures of Tween80-Butanol-Kerosene-Water System. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 11889-11896.	3.7	14

#	ARTICLE	IF	CITATIONS
181	Studies on the selective Am ³⁺ transport, irradiation stability and surface morphology of polymer inclusion membranes containing Cyanex-301 as carrier extractant. <i>Journal of Hazardous Materials</i> , 2011, 192, 116-23.	12.4	14
182	Extraction of caesium(I) from HNO ₃ medium using room temperature ionic liquid containing calix[4]crown ligands as the selective extractants. <i>Radiochimica Acta</i> , 2011, 99, 713-717.	1.2	14
183	Amazing selectivity for Am(III) uptake by composite graphene oxide-PES polymeric beads prepared by phase inversion. <i>RSC Advances</i> , 2015, 5, 24705-24711.	3.6	14
184	Studies on the Extraction of Actinides Using a Solvent Containing D2EHiBA in Room Temperature Ionic Liquids: Unusual Extraction of the Tetravalent Ions. <i>Separation Science and Technology</i> , 2015, 50, 373-379.	2.5	14
185	Polymer Inclusion Membranes Containing <i>N,N,N',N'</i> -Tetra(2-ethylhexyl) Diglycolamide: Uptake Isotherm and Actinide Ion Transport Studies. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 3237-3246.	3.7	14
186	Dramatic Changes in the Solubilities of Ions Induced by Ligand Addition in Biphasic System D ₂ O/DNO ₃ //[C ₁ C ₄ im][Tf ₂ N]: A Phenomenological Study. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7502-7510.	2.6	14
187	Extraction of actinide ions using three CMPO-functionalized pillar[5]arenes in a room temperature ionic liquid. <i>Separation and Purification Technology</i> , 2018, 195, 224-231.	7.9	14
188	A diglycolamide-functionalized TREN-based dendrimer with a "crab-like"™ grip for the complexation of actinides and lanthanides. <i>Dalton Transactions</i> , 2018, 47, 15164-15172.	3.3	14
189	Highly efficient separation of Am ³⁺ and Eu ³⁺ using an aqueous soluble sulfonated BTP derivative by hollow-fiber supported liquid membrane containing TODGA. <i>Separation Science and Technology</i> , 2019, 54, 1512-1520.	2.5	14
190	Combined Experimental and Density Functional Theoretical Studies of Am ³⁺ and Eu ³⁺ Extraction and Complexation with Different Nitrilotriacetamide (NTA) Derivatives. <i>ChemistrySelect</i> , 2020, 5, 3374-3384.	1.5	14
191	EXTRACTION OF Mo(VI) FROM NITRIC ACID MEDIUM BY DI(OCTYL-PHENYL) PHOSPHORIC ACID. <i>Solvent Extraction and Ion Exchange</i> , 2001, 19, 491-505.	2.0	13
192	Extraction of Radio-Strontium from Nitric Acid Medium Using Di- <i>tert</i> -Butyl Cyclohexano-18-Crown-6 (DTBCH18C6) in Toluene/1-Octanol Diluent Mixture. <i>Separation Science and Technology</i> , 2010, 45, 204-211.	2.5	13
193	Controlled Pertraction of Plutonium(III) Under Reducing Conditions From Acidic Feeds Using TODGA as the Carrier Extractant. <i>Separation Science and Technology</i> , 2010, 46, 94-104.	2.5	13
194	Liquid-liquid extraction of Np ⁴⁺ and Pu ⁴⁺ using several tetra-alkyl substituted diglycolamides. <i>Radiochimica Acta</i> , 2013, 101, 719-724.	1.2	13
195	Mathematical Model for the Extraction of Neodymium from Nitrate Media using Hollow Fiber Supported Liquid Membrane Operated in a Recycling Mode. <i>Separation Science and Technology</i> , 2013, 48, 1003-1014.	2.5	13
196	Influences of different environmental parameters on the sorption of trivalent metal ions on bentonite: batch sorption, fluorescence, EXAFS and EPR studies. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 904.	3.5	13
197	First example of diglycolamide-grafted resins: synthesis, characterization, and actinide uptake studies. <i>RSC Advances</i> , 2014, 4, 10412.	3.6	13
198	Complexation thermodynamics of tetraalkyl diglycolamides with trivalent f-elements in ionic liquids: spectroscopic, microcalorimetric and computational studies. <i>New Journal of Chemistry</i> , 2018, 42, 708-716.	2.8	13

#	ARTICLE	IF	CITATIONS
199	Pertraction of Np(IV) and Pu(IV) across a flat sheet supported liquid membrane containing two N-pivoted tripodal diglycolamides. Separation and Purification Technology, 2020, 238, 116418.	7.9	13
200	Extraction of Np ⁴⁺ and Pu ⁴⁺ from nitric acid feeds using three types of tripodal diglycolamide ligands. Separation and Purification Technology, 2020, 247, 116986.	7.9	13
201	Highly Efficient Europium(III) Uptake with an Extraction Chromatographic Resin Containing a Unique Multiple Diglycolamide Ligand with a Tetraaza-12-crown-4 Scaffold. Industrial & Engineering Chemistry Research, 2021, 60, 2613-2624.	3.7	13
202	Selective uptake of thorium(IV) from nitric acid medium using two extraction chromatographic resins based on diglycolamide-calix[4]arenes: Application to thorium-uranyl separation in an actual sample. Journal of Chromatography A, 2021, 1653, 462401.	3.7	13
203	Role of ligand softness and diluent on the separation behaviour of Am(III) and Eu(III). Journal of Radioanalytical and Nuclear Chemistry, 2011, 288, 709-716.	1.5	12
204	Studies on the separation of ⁹⁰ Y from ⁹⁰ Sr by solvent extraction and supported liquid membrane using TODGA: role of organic diluent. Journal of Radioanalytical and Nuclear Chemistry, 2013, 295, 1683-1688.	1.5	12
205	Simultaneous extraction of Cs and Sr from synthetic high level waste solutions using a solvent containing chlorinated dicarbollide and PEG-400 in PTMS. Journal of Radioanalytical and Nuclear Chemistry, 2014, 299, 75-80.	1.5	12
206	Highly Efficient Composite Polysulfone Beads Containing a Calix[4]arene- α -Monocrown-6 Ligand and a Room Temperature Ionic Liquid for Radiocesium Separations: Remediation of Environmental Samples. Industrial & Engineering Chemistry Research, 2016, 55, 12460-12466.	3.7	12
207	Comparative evaluation of polymer inclusion membranes containing several substituted diglycolamides for actinide ion separations. Journal of Membrane Science, 2016, 501, 134-143.	8.2	12
208	Superparamagnetic graphene oxide- α -magnetite nanoparticle composites for uptake of actinide ions from mildly acidic feeds. Journal of Chromatography A, 2017, 1513, 18-26.	3.7	12
209	Extraction of Np^{4+} and NpO_2^{2+} from Nitric Acid Medium Using TODGA in Room Temperature Ionic Liquids. Journal of Solution Chemistry, 2018, 47, 1326-1338.	1.2	12
210	Development of a potentiometric sensor for europium(III) based on N, N, N', N'-tetraoctyldiglycolamide (TODGA) as the ionophore. Journal of Electroanalytical Chemistry, 2018, 808, 340-347.	3.8	12
211	Complexation of 2-thenyltrifluoroacetone (HTTA) with trivalent f-cations in an ionic liquid: solvent extraction and spectroscopy studies. New Journal of Chemistry, 2019, 43, 13675-13680.	2.8	12
212	Separation of neptunium from actinides by monoamides: a solvent extraction study. Radiochimica Acta, 2019, 107, 369-376.	1.2	12
213	Extraction of Plutonium(IV) with l-Phenyl-3-Methyl-4-Benzoyl Pyrazol-5-one and Tri-n-octylphosphine Oxide. Radiochimica Acta, 1993, 60, 185-188.	1.2	11
214	1-Phenyl-3-methyl-4-benzoyl-pyrazolone-5: A Promising Extractant for Plutonium. Separation Science and Technology, 1994, 29, 1073-1086.	2.5	11
215	Cation-exchange separation of uranium from thorium in nitric acid medium. Journal of Radioanalytical and Nuclear Chemistry, 2006, 268, 323-328.	1.5	11
216	Separation of actinides using hollow fiber supported liquid membranes. Radiochimica Acta, 2009, 97, .	1.2	11

#	ARTICLE	IF	CITATIONS
217	Preferential extraction of ^{90}Y from ^{90}Sr using N,N,N',N'-tetra-2-ethylhexyl diglycolamide (T2EHDGA) as the extractant. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2011, 288, 389-394.	1.5	11
218	A β -cyclodextrin™ actinide partitioning run at 20 L scale with hollow fibre supported liquid membrane using diglycolamide extractants. <i>Radiochimica Acta</i> , 2011, 99, 815-821.	1.2	11
219	Recovery of Plutonium from Analytical Laboratory Waste using Hollow Fiber Supported Liquid Membrane Technique. <i>Separation Science and Technology</i> , 2012, 48, 208-214.	2.5	11
220	Evaluation of DMDOHEMA based supported liquid membrane system for high level waste remediation under simulated conditions. <i>Journal of Membrane Science</i> , 2013, 442, 48-56.	8.2	11
221	Non-Dispersive Solvent Extraction of Uranium from Nitric Acid Medium by Several Amides and their Mixture with TODGA using a Hollow Fiber Contactor. <i>Separation Science and Technology</i> , 2013, 48, 2436-2443.	2.5	11
222	Role of organic diluent on actinide ion extraction using a both-side diglycolamide-functionalised calix[4]arene. <i>Supramolecular Chemistry</i> , 2013, 25, 688-695.	1.2	11
223	Solvent systems containing diglycolamide-functionalised calix[4]arenes in room temperature ionic liquid for metal ion extraction: studies with simulated high-level wastes. <i>Supramolecular Chemistry</i> , 2014, 26, 612-619.	1.2	11
224	Polymer inclusion membrane containing a diglycolamide-functionalized calix[4]arene for actinide ion uptake and transport. <i>Journal of Membrane Science</i> , 2016, 516, 194-201.	8.2	11
225	Extraction of thorium(IV) by a mixture of 1-phenyl-3-methyl-4-benzoyl-5-pyrazolone and tri-n-octyl phosphine oxide. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1999, 240, 31-38.	1.5	10
226	Use of chitosan derivatives as solid phase extractors for metal ions. <i>Desalination</i> , 2008, 232, 234-242.	8.2	10
227	Carrier Facilitated Transport of Europium(III) Across Supported Liquid Membranes Containing N,N,N',N'-tetra-2-ethylhexyl-3-oxapentane-diamide (T2EHDGA) as the Extractant. <i>Separation Science and Technology</i> , 2011, 46, 1941-1949.	2.5	10
228	Extraction chromatographic study on the separation of Am^{3+} and Eu^{3+} using ethyl-BTP as the extractant. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2011, 288, 571-577.	1.5	10
229	A rapid online estimation method for radiostrontium in soil samples using crown ether and supercritical fluid extraction. <i>Talanta</i> , 2012, 99, 744-749.	5.5	10
230	Removal of Cs from simulated high-level waste solutions by extraction using chlorinated cobaltdicarbollide in a mixture of nitrobenzene and xylene. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2012, 291, 611-616.	1.5	10
231	Liquid β -Liquid Extraction and Pertraction of Eu(III) from Nitric Acid Medium Using Several Substituted Diglycolamide Extractants. <i>Separation Science and Technology</i> , 2013, 48, 2179-2187.	2.5	10
232	Application of hollow fiber supported liquid membrane for the separation of americium from the analytical waste. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013, 295, 1023-1028.	1.5	10
233	Mathematical Model for the Extraction of Metal Ions using Hollow Fiber Supported Liquid Membrane Operated in a Recycling Mode. <i>Separation Science and Technology</i> , 2013, 48, 2454-2467.	2.5	10
234	Evaluation of Novel Solvent Systems Containing Calix-crown-6 Ligands in A Fluorinated Solvent for Cesium Extraction from Nitric Acidic Feeds. <i>Separation Science and Technology</i> , 2014, 49, 2151-2157.	2.5	10

#	ARTICLE	IF	CITATIONS
235	Simultaneous Extraction of Neodymium and Uranium using Hollow Fiber Supported Liquid Membrane. <i>Separation Science and Technology</i> , 2014, 49, 1509-1520.	2.5	10
236	Glycolamide-functionalized ionic liquid: Synthesis and actinide ion extraction studies. <i>Separation Science and Technology</i> , 2017, 52, 1430-1440.	2.5	10
237	Extraction of plutonium(IV) by diglycolamide extractants in room temperature ionic liquids. <i>Radiochimica Acta</i> , 2017, 105, 285-293.	1.2	10
238	Np(V) uptake by bentonite clay: Effect of accessory Fe oxides/hydroxides on sorption and speciation. <i>Applied Geochemistry</i> , 2017, 78, 74-82.	3.0	10
239	An Insight into the Complexation of Trivalent Americium and Lanthanides with Bis(1,2,4-triazinyl)bipyridine Derivatives. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 820-828.	2.0	10
240	Evaluation of a novel PVC-based efficient potentiometric sensor containing a tripodal diglycolamide (TREN-DGA) ionophore for europium(III) estimation. <i>Sensors and Actuators B: Chemical</i> , 2018, 272, 534-542.	7.8	10
241	Effect of irradiation on the hydrodynamic parameters and extraction efficiency of several frequently used ionic liquids. <i>Radiation Physics and Chemistry</i> , 2019, 158, 180-187.	2.8	10
242	Complexation of europium(III) and americium(III) with ionizable macrocyclic ligands. <i>Polyhedron</i> , 1990, 9, 2455-2461.	2.2	9
243	Thermodynamics of strontium extraction using substituted crown ethers in mixtures of aliphatic alcohols. <i>Radiochimica Acta</i> , 2000, 88, 885-888.	1.2	9
244	Extraction of the uranyl ion with 3-phenyl-4-benzoyl-5-isoxazolone (HPBI) and neutral donors from dilute nitric acid medium. <i>Radiochimica Acta</i> , 2003, 91, 729-736.	1.2	9
245	Preconcentration and separation of trace amounts of palladium using dithiooxamide functionalized chelating resin followed by its determination using radiotracer technique. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2007, 274, 245-250.	1.5	9
246	Role of diluents in uranium transport across a supported liquid membrane using di(2-ethylhexyl)isobutyramide as the carrier. <i>Desalination</i> , 2008, 232, 281-290.	8.2	9
247	Sorption of metal cations on suspended bentonite: effects of pH, ionic strength and complexing anions. <i>Radiochimica Acta</i> , 2014, 102, 401-409.	1.2	9
248	Complexation of trivalent americium and lanthanides with terdentate N^{TM} donor ligands: the role of rigidity in the ligand structure. <i>Dalton Transactions</i> , 2014, 43, 12422-12429.	3.3	9
249	A novel dipicolinamide-dicarbollide synergistic solvent system for actinide extraction. <i>Radiochimica Acta</i> , 2014, 102, 481-487.	1.2	9
250	Evaluation of several multiple diglycolamide-functionalized calix[4]arene ligands for the isolation of carrier free ^{90}Y from ^{90}Sr . <i>Applied Radiation and Isotopes</i> , 2014, 85, 133-138.	1.5	9
251	Polymer inclusion membrane containing a tripodal diglycolamide (T-DGA): Characterization and sorption isotherm studies. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 1826-1838.	6.7	9
252	Extraction of Eu(III) and Am(III) by 1-phenyl-3-methyl-4-acetylpyrazol-5-one (HPMAP) and tri-n-octylphosphine oxide (TOPO) in a room-temperature ionic liquid. <i>Separation Science and Technology</i> , 2017, 52, 2318-2327.	2.5	9

#	ARTICLE	IF	CITATIONS
253	Diglycolamide-functionalized dendrimers: Studies on Americium(III) pertraction from radioactive waste. <i>Separation and Purification Technology</i> , 2017, 187, 110-117.	7.9	9
254	Np(V) uptake by various clays. <i>Applied Geochemistry</i> , 2018, 92, 1-8.	3.0	9
255	Effect of an alkyl substituent and spacer length in benzene-centered tripodal diglycolamides on the sequestration of minor actinides. <i>Dalton Transactions</i> , 2018, 47, 13631-13640.	3.3	9
256	An efficient method for radio-ruthenium separation from acidic feeds: Extraction, transport and spectroscopic studies. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 5830-5836.	6.7	9
257	Evaluation of three novel benzene-centered tripodal diglycolamide ligands for the pertraction of americium(III) through flat sheet membranes for nuclear waste remediation applications. <i>Separation and Purification Technology</i> , 2019, 229, 115846.	7.9	9
258	Complexation of CMPO with trivalent f-cations in ionic liquid medium: Solvent extraction, spectroscopic, EXAFS and DFT studies. <i>Polyhedron</i> , 2019, 162, 71-80.	2.2	9
259	Development of polyvinyl chloride (PVC)-based highly efficient potentiometric sensors containing two benzene-centered tripodal diglycolamides as ionophores. <i>Sensors and Actuators B: Chemical</i> , 2020, 320, 127961.	7.8	9
260	Selective Separation of Neptunium from an Acidic Feed Containing a Mixture of Actinides Using Dialkylamides. <i>Solvent Extraction and Ion Exchange</i> , 2020, 38, 290-303.	2.0	9
261	<i>In Situ</i> Preconcentration during the Di-(2-ethylhexyl) Phosphoric Acid-Assisted Dissolution of Uranium Trioxide in an Ionic Liquid: Spectroscopic, Electrochemical, and Theoretical Studies. <i>Inorganic Chemistry</i> , 2021, 60, 10147-10157.	4.0	9
262	Recovery of radio-caesium from actual high level liquid waste using solvents containing calix[4]arene-crown-6 ligands. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 4134-4140.	6.7	9
263	Direct dissolution of metal oxides in ionic liquids as a smart strategy for separations: Current status and prospective. <i>Separation Science and Technology</i> , 0, , 1-32.	2.5	9
264	An unusual extraction behavior of americium (III) and dioxouranium (VI) from picric acid medium using 18-crown-6 as neutral oxodonor. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1999, 241, 101-105.	1.5	8
265	Recovery of americium(III) from low acid solutions using an emulsion liquid membrane containing PC-88A as the carrier extractant. <i>Desalination and Water Treatment</i> , 2009, 12, 62-67.	1.0	8
266	Recovery and pre-concentration of americium (III) from dilute acid solutions using an emulsion liquid membrane containing di-2-ethylhexyl phosphoric acid (D2EHPA) as extractant. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2010, 285, 309-314.	1.5	8
267	Hindered rotation in a novel 1,2,4-triazinyl phenanthroline (t-phen) ligand leading to improved separation of Am ³⁺ and Eu ³⁺ -vis-À-vis 1,2,4-triazinyl bipyridine (t-bipy): a computational validation of the experimental results. <i>RSC Advances</i> , 2012, 2, 7066.	3.6	8
268	A revisit of the cation-cation interactions between NpO ₂ ⁺ and UO ₂ ²⁺ in nitric acid medium and their impact on separation processes: spectrophotometric and solvent extraction studies. <i>Dalton Transactions</i> , 2013, 42, 14058.	3.3	8
269	A comparative evaluation of the liquid-liquid extraction and pertraction efficiency of a both-side diglycolamide-functionalized calix[4]arene with analogous upper and lower-rim calixarenes for actinide separations. <i>Journal of Membrane Science</i> , 2013, 444, 268-275.	8.2	8
270	Pyrazine-functionalized calix[4]arenes: synthesis by palladium-catalyzed cross-coupling with phosphorus pronucleophiles and metal ion extraction properties. <i>New Journal of Chemistry</i> , 2013, 37, 391-402.	2.8	8

#	ARTICLE	IF	CITATIONS
271	Electrochemical behavior of cerium(IV) in a RTIL and its mixture with ethanol. <i>Journal of Rare Earths</i> , 2014, 32, 641-647.	4.8	8
272	Np(IV) complex with task-specific ionic liquid based on CMPO: first cyclic voltammetric study. <i>Monatshefte für Chemie</i> , 2015, 146, 1815-1821.	1.8	8
273	New extractant N,N-dimethyl-N-dicyclohexyl-2-(2-dodecyloxyethyl)-malonamide (DMDCDDEMA) for radiotoxic acidic waste remediation: Synthesis, extraction and supported liquid membrane transport studies. <i>Separation and Purification Technology</i> , 2015, 145, 83-91.	7.9	8
274	Effect of different complexing ligands on europium uptake from aqueous phase by kaolinite: batch sorption and fluorescence studies. <i>RSC Advances</i> , 2016, 6, 84464-84471.	3.6	8
275	Synthesis and characterization of magnetic copper-iron-titanate and uptake studies of americium from nuclear waste solutions. <i>RSC Advances</i> , 2016, 6, 111822-111830.	3.6	8
276	Complexation of Actinides with Phosphine Oxide Functionalized Pillar[5]arenes: Extraction and Spectroscopic Studies. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 4022-4030.	2.0	8
277	Pertraction of U(VI) through liquid membranes using monoamides as carrier ligands: experimental and theoretical studies. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020, 323, 983-991.	1.5	8
278	Actinide ion uptake from acidic radioactive feeds using an extraction chromatographic resin containing a branched dialkyl amide. <i>Journal of Chromatography A</i> , 2021, 1635, 461728.	3.7	8
279	Neptunium Tri-n-butyl phosphate complexes in room temperature ionic liquids: Extraction and spectroelectrochemical studies. <i>Journal of Molecular Liquids</i> , 2021, 325, 115144.	4.9	8
280	Aqueous soluble donor heterocyclic ligands for the mutual separation of Am ³⁺ and Eu ³⁺ : Solvent extraction, flat-sheet supported liquid membrane and hollow fiber microextraction studies. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106041.	6.7	8
281	Complexation of americium(III) with a diazacrown ether. <i>Polyhedron</i> , 1995, 14, 1993-1997.	2.2	7
282	Extraction of tetravalent neptunium isoxazonates as their TOPO adducts. <i>Radiochimica Acta</i> , 2004, 92, 95-100.	1.2	7
283	Role of Ligand Structure and Basicity on the Extraction of Uranyl Isoxazonate Adducts. <i>Solvent Extraction and Ion Exchange</i> , 2004, 22, 13-29.	2.0	7
284	Kinetics of Complexation of Uranium with 2-(5-Bromo-2-Pyridylazo)-5-(Diethylamino) Phenol (Br-PADAP) in a 1:1 Water-Ethanol Medium. <i>Journal of Solution Chemistry</i> , 2006, 35, 803-814.	1.2	7
285	Selective Recovery of Am(III) over Eu(III) by Hollow Fiber Supported Liquid Membrane Using Cyanex 301 in the Presence of Synergists as the Carrier. <i>Separation Science and Technology</i> , 2010, 46, 205-214.	2.5	7
286	Radiation stability of several polymeric supports used for radionuclide transport from nuclear wastes using liquid membranes. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013, 298, 807-811.	1.5	7
287	Comparative Evaluation of CMPO and Diglycolamide Based Solvent Systems for Actinide Partitioning in Mixer-Settler Runs Using Tracer-Spiked PHWR Simulated High Level Waste. <i>Solvent Extraction and Ion Exchange</i> , 2014, 32, 44-58.	2.0	7
288	Composite polymeric beads containing N,N,N-tetraoctyldiglycolamide for actinide ion uptake from nitric acid feeds: Batch uptake, kinetic modelling and column studies. <i>Journal of Chromatography A</i> , 2015, 1422, 206-212.	3.7	7

#	ARTICLE	IF	CITATIONS
289	Pertraction of radio-cesium from acidic feeds across supported liquid membranes containing calix-crown-6 ligands in a fluorinated diluent. <i>Journal of Membrane Science</i> , 2015, 487, 127-134.	8.2	7
290	Unfolding the complexation and extraction of Am ³⁺ and Eu ³⁺ using N-heterocyclic aromatic diphosphonic acids: a combined experimental and DFT study. <i>Dalton Transactions</i> , 2019, 48, 16279-16288.	3.3	7
291	Americium pertraction across supported liquid membranes containing multiple diglycolamide ligands: Role of alkyl substitution and spacer length in carrier ligands. <i>Chemical Engineering Research and Design</i> , 2020, 159, 170-178.	5.6	7
292	Highly efficient uptake of neptunium from acidic feeds using two solid phase extraction resins containing diglycolamide-functionalized calix[4]arene ligands. <i>Journal of Chromatography A</i> , 2021, 1642, 462037.	3.7	7
293	Liquid–Liquid Extraction of Actinides from Nitric Acid Feeds Using Two Hexa- <i>n</i> -alkylnitrilotriacetamides. <i>Solvent Extraction and Ion Exchange</i> , 2022, 40, 366-386.	2.0	7
294	Highly efficient and selective extraction of Pu(IV) using two alkyl-substituted amides of nitrilo triacetic acid from nitric acid solutions. <i>Separation and Purification Technology</i> , 2021, 279, 119584.	7.9	7
295	Highly efficient separation of ruthenium from alkaline radioactive feeds using an anion exchange resin. <i>Radiochimica Acta</i> , 2020, 108, 603-613.	1.2	7
296	Sequestration of Am ³⁺ and Eu ³⁺ into ionic liquid containing Aza-macrocyclic based multiple-diglycolamide ligands: Extraction, complexation, luminescence and DFT studies. <i>Journal of Molecular Liquids</i> , 2022, 347, 118291.	4.9	7
297	Complexation of actinides with ionisable macrocyclic ligands. <i>Inorganica Chimica Acta</i> , 1990, 170, 141-143.	2.4	6
298	Extraction of Am(III) and Cm(III) with 1-Phenyl-3-Methyl-4-Acetyl-Pyrazolone-5. <i>Radiochimica Acta</i> , 1992, 57, 25-28.	1.2	6
299	Laboratory studies on the adsorption behavior of americium. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1992, 156, 215-221.	1.5	6
300	An Unusual Extraction Behaviour of Americium(III) and Dioxo-Uranium(VI) from Picric Acid Medium Using Neutral Oxo Donors. <i>Radiochimica Acta</i> , 1995, 69, 81-86.	1.2	6
301	Extraction of actinides and fission products from salt solutions using polyethylene glycols (PEGs). <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1999, 242, 627-634.	1.5	6
302	Transport of americium(III) across SLM containing CMPO as the carrier extractant. <i>Desalination and Water Treatment</i> , 2009, 12, 73-78.	1.0	6
303	Purification of americium from assorted analytical waste in hydrochloric acid medium. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2012, 292, 1017-1023.	1.5	6
304	Transport of strontium through a hollow fibre supported liquid membrane containing N,N,N',N'-tetraoctyl diglycolamide as the carrier. <i>Desalination</i> , 2013, 325, 104-112.	8.2	6
305	Synthesis and Evaluation of N,N'-dimethyl-N,N'-dicyclohexyl-Malonamide (DMDCMA) as an Extractant for Actinides. <i>Separation Science and Technology</i> , 2014, 49, 2927-2932.	2.5	6
306	Non-Dispersive Solvent Extraction of Neodymium using N,N,N',N'-Tetraoctyl Diglycolamide (TODGA). <i>Separation Science and Technology</i> , 2014, 49, 1541-1554.	2.5	6

#	ARTICLE	IF	CITATIONS
307	Comparison of Different HFSLM Configurations for Separation of Neodymium and Uranium. Separation Science and Technology, 2015, 50, 332-342.	2.5	6
308	Unusual Reversal in Pu and U Extraction in an Ionic Liquid Using Two Tripodal Diglycolamide Ligands: Experimental and DFT Studies. Solvent Extraction and Ion Exchange, 2018, 36, 542-557.	2.0	6
309	Highly Efficient Extraction of Trivalent f-Cations Using Several N-Pivot Tripodal Diglycolamide Ligands in an Ionic Liquid: The Role of Ligand Structure on Metal Ion Complexation. European Journal of Inorganic Chemistry, 2020, 2020, 191-199.	2.0	6
310	Bis-(1,2,4-triazin-3-yl) ligand structure driven selectivity reversal between Am ³⁺ and Cm ³⁺ : solvent extraction and DFT studies. Dalton Transactions, 2021, 50, 7783-7790.	3.3	6
311	Highly efficient diglycolamide-functionalized dendrimers for the sequestration of tetravalent actinides: solvent extraction and theoretical studies. New Journal of Chemistry, 2021, 45, 9462-9471.	2.8	6
312	Comparative uptake studies on trivalent f-cations from acidic feeds using two extraction chromatography resins containing a diglycolamide in molecular diluent and ionic liquid. Journal of Chromatography A, 2021, 1641, 461999.	3.7	6
313	Europium(III) permeation through a flat sheet supported liquid membrane containing CMPO with iso-decanol phase modifier: Experimental and modeling studies. Chemical Engineering Research and Design, 2021, 168, 307-316.	5.6	6
314	Highly efficient plutonium scavenging by an extraction chromatography resin containing a tetraaza-12-crown-4 ligand tethered with four diglycolamide pendent arms. Journal of Chromatography A, 2021, 1653, 462419.	3.7	6
315	Highly efficient uptake of Europium (III) and Americium (III) from acidic feeds using extraction chromatography resins containing N,N,N,N-tetra alkyl diglycolamides with varying alkyl chain length in an ionic liquid. Journal of Chromatography A, 2022, 1669, 462928.	3.7	6
316	Fate of Neptunium in nuclear fuel cycle streams: state-of-the art on separation strategies. Radiochimica Acta, 2022, .	1.2	6
317	Liquid-Liquid Extraction and Supported Liquid Membrane Transport of Neptunium(IV) Across a Flat-Sheet Supported Liquid Membrane Containing a TREN-DGA Derivative. Solvent Extraction and Ion Exchange, 2022, 40, 693-717.	2.0	6
318	Extraction of Plutonium(IV) with Ionizable Macrocyclic Ligands. Radiochimica Acta, 1990, 50, 209-214.	1.2	5
319	Thermodynamics of the complexation of cerium-, europium- and erbium-(III) with 1,4,10-trioxa-7,13-diazapentadecane-N,N-diacetic acid and 1,4,10,13-tetraoxa-7,16-diazaoxa-cyclooctadecane-N,N-diacetic acid. Journal of the Chemical Society Dalton Transactions, 1995, . 1583-1585.	1.1	5
320	Extraction of Americium from Nitric Acid Medium Using 3-Phenyl-4-benzoyl-5-isoxazolone and Tri-n-octylphosphine Oxide. Separation Science and Technology, 1999, 34, 123-137.	2.5	5
321	Extraction of neptunium(IV) by a mixture of 3-phenyl-4-acetyl-5-isoxazolone and tri-n-octyl phosphine oxide. Radiochimica Acta, 2006, 94, .	1.2	5
322	Cs(I) extraction / transport studies using irradiated calix [4]-bis 2,3-naphtho-crown-6. Desalination and Water Treatment, 2009, 12, 52-56.	1.0	5
323	Selective recovery of uranium from THOREX feed by hollow fibre supported liquid membrane technique containing di(2-ethylhexyl) isobutyramide (D2EHIBA) as the carrier. Radiochimica Acta, 2010, 98, 259-266.	1.2	5
324	Characterization of purified ²⁴¹ Am for common impurities by instrumental neutron activation analysis. Journal of Radioanalytical and Nuclear Chemistry, 2011, 287, 281-285.	1.5	5

#	ARTICLE	IF	CITATIONS
325	Facilitated transport of uranium(VI) across supported liquid membranes (SLM) containing T2EHDGA: Part II. Nature of feed, pore size and temperature on pertraction rates. <i>Desalination and Water Treatment</i> , 2012, 38, 230-237.	1.0	5
326	Supercritical fluid extraction of uranium from sintered oxides (UO ₂), Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 712 Td ((U,Th)O and N,N-di-(2-ethylhexyl) isobutyramide as extractants. <i>Desalination and Water Treatment</i> , 2012, 38, 199-203.	1.0	5
327	Effect of irradiation on AMP based resins for cesium separation from HNO ₃ feed solutions: batch and column studies. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2012, 292, 661-666.	1.5	5
328	Comparative Evaluation of Different Extractants toward Cloud Formation Behavior and Metal Ion Extraction: Spectrophotometric, Dynamic Light Scattering, and Extraction Studies. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 15146-15153.	3.7	5
329	Online recovery of radiocesium from soil, cellulose and plant samples by supercritical fluid extraction employing crown ethers and calix-crown derivatives as extractants. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 300, 1281-1289.	1.5	5
330	A highly efficient solvent system containing chlorinated cobalt dicarbollide in NPOE+Dodecane mixture for effective transport of radio-cesium from acidic wastes. <i>Journal of Membrane Science</i> , 2014, 469, 59-66.	8.2	5
331	Effect of irradiation on some actinide and fission product ions' extraction using several tetraalkyl diglycolamides. <i>Radiochimica Acta</i> , 2015, 103, 335-344.	1.2	5
332	Separation of carrier-free ⁹⁰ Y from ⁹⁰ Sr using flat sheet supported liquid membranes containing multiple diglycolamide-functionalized calix[4]arenes. <i>Supramolecular Chemistry</i> , 2016, 28, 360-366.	1.2	5
333	Extraction behaviour of dioxouranium(VI) cation by two phosphorous-based liquid cation-exchangers in room-temperature ionic liquids. <i>Separation Science and Technology</i> , 2017, 52, 2328-2337.	2.5	5
334	Evaluation of several novel diamide based ligands for selective extraction of tetravalent plutonium. <i>Radiochimica Acta</i> , 2017, 105, 303-310.	1.2	5
335	Highly Efficient Extraction Chromatography Resins Containing Dendrimers with DGA Groups in Ionic Liquid for Actinide Uptake. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 13226-13234.	3.7	5
336	Understanding the recovery of Ruthenium from acidic feeds by oxidative solvent extraction studies. <i>Radiochimica Acta</i> , 2019, 107, 423-429.	1.2	5
337	Novel diamide ligands with a central carbonyl group and their comparative evaluation with the diglycolamide ligand: synthesis, extraction, DFT and chromatographic studies. <i>Radiochimica Acta</i> , 2019, 107, 1133-1144.	1.2	5
338	Pertraction of americium(III) through supported liquid membranes containing benzene-centered tripodal diglycolamides (Bz-T-DGA) as an extractant/carrier. <i>Chemical Engineering Research and Design</i> , 2019, 141, 84-92.	5.6	5
339	Role of TBP on the extraction of trivalent f-cations with CMPO dissolved in a room temperature ionic liquid. <i>Separation Science and Technology</i> , 2019, 54, 1443-1452.	2.5	5
340	Demonstration of Hollow Fiber Membrane Technique for the Recovery of Plutonium from Analytical Laboratory Waste. <i>Nuclear Technology</i> , 2019, 205, 727-735.	1.2	5
341	Comparative evaluation of extraction of tetra- and hexa-valent neptunium ions by CMPO in a room temperature ionic liquid. <i>Separation Science and Technology</i> , 2020, 55, 2560-2569.	2.5	5
342	Sequestration of tetravalent neptunium from acidic feeds using diglycolamide-functionalized dendrimers in a room temperature ionic liquid: extraction, spectroscopic and electrochemical studies. <i>New Journal of Chemistry</i> , 2021, 45, 17951-17959.	2.8	5

#	ARTICLE	IF	CITATIONS
343	Isolation of single crystals of a homoleptic UO_2^{2+} -diglycolamide complex from a room temperature ionic liquid: X-ray crystallography and complexation studies. <i>New Journal of Chemistry</i> , 2022, 46, 950-954.	2.8	5
344	Liquid-Liquid Extraction of Dioxouranium(VI) with a Mixture of 3-Phenyl-4-benzoyl-5-isoxazolone and Neutral Oxodonors: A Thermodynamic Study. <i>Radiochimica Acta</i> , 1997, 76, 123-128.	1.2	4
345	Facilitated Transport of Americium(III) from Nitric Acid Media using 3-Phenyl-4-Benzoyl-5-Isoxazolone and Tri-N-Octyl Phosphine Oxide in Dodecane as the Carrier. <i>Radiochimica Acta</i> , 1999, 84, 147-152.	1.2	4
346	Ion-Exchange Separation of Pu from Macro Concentration of Th in HNO_3 Medium. <i>Solvent Extraction and Ion Exchange</i> , 2004, 22, 267-284.	2.0	4
347	Hydrodynamic properties for N,N,N',N' -tetraalkyl diglycolamides dissolved in n -dodecane system. <i>Canadian Journal of Chemical Engineering</i> , 2012, 90, 682-689.	1.7	4
348	A Novel Liquid Emulsion Membrane Containing TODGA as the Carrier Extractant for Am Recovery from Acidic Wastes. <i>Separation Science and Technology</i> , 2013, 48, 1167-1176.	2.5	4
349	Spectroscopic investigations on sorption of uranium onto suspended bentonite: effects of pH, ionic strength and complexing anions. <i>Radiochimica Acta</i> , 2015, 103, 293-303.	1.2	4
350	Novel polymer inclusion membranes containing T2EHDGA as carrier extractant for actinide ion uptake from acidic feeds. <i>Radiochimica Acta</i> , 2015, 103, 257-264.	1.2	4
351	Solid phase extraction of Am(III) and Cm(III) from acidic feeds using tetraethyl diglycolamide (TEDGA) in ionic liquid. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 309, 819.	1.5	4
352	Extraction of Some Actinide Ions from Nitric Acid Feeds Using N, N-di-n-hexyloctanamide (DHOA) in an Ionic Liquid. <i>Journal of Solution Chemistry</i> , 2020, 49, 763-776.	1.2	4
353	Ruthenium recovery from alkaline radioactive feeds using an extraction chromatography resin containing Aliquat 336. <i>Separation and Purification Technology</i> , 2021, 259, 118099.	7.9	4
354	Carrier mediated transport of actinides using hexa- n -hexylnitriлотriacetamide (HHNTA). <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 161, 108323.	3.6	4
355	Hollow fibre supported liquid membranes for nuclear fuel cycle applications: A review. <i>Cleaner Engineering and Technology</i> , 2021, 4, 100138.	4.0	4
356	Highly efficient uptake of tetravalent actinide ions from nitric acid feeds using an extraction chromatography material containing tetra- n -butyl diglycolamide and a room temperature ionic liquid. <i>Journal of Chromatography A</i> , 2021, 1655, 462501.	3.7	4
357	Extraction of tetra- and hexavalent actinide ions from nitric acid solutions using some diglycolamide functionalized calix[4]arenes. <i>Radiochimica Acta</i> , 2021, 109, 167-176.	1.2	4
358	Extraction studies of Am(III) and Eu(III) with a tris-bipyridyl macrobicyclic ligand. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 1993, 15, 121-130.	1.6	3
359	Synergistic Extraction Behaviour of Americium from Simulated Acidic Waste Solutions. <i>Radiochimica Acta</i> , 1998, 81, 125-128.	1.2	3
360	Recovery of plutonium from oxalate supernatant using 1-phenyl-3-methyl-4-benzoyl-5-pyrazolone. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2006, 270, 345-348.	1.5	3

#	ARTICLE	IF	CITATIONS
361	A pH dependent transport and back transport of americium(iii) through the cellulose triacetate composite polymer membrane of cyanex-301 and TBP: role of H-bonding interactions. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6274.	2.8	3
362	Separation and determination of components of high level waste using IC and dynamically modified reversed-phase HPLC in actinide partitioning studies using synthetic waste solution. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2011, 287, 293-298.	1.5	3
363	Studies on Separation of 90Y and 90Sr Separation from Hydrochloric Acid Solutions Using TODGA as the Extractant by SLM Method. <i>Procedia Chemistry</i> , 2012, 7, 191-194.	0.7	3
364	Characterization of the Species Formed during the Extraction of Thorium Employing Tri-n-Butyl Phosphate and N,N-Dihexyl Octanamide as Extractants by Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. <i>European Journal of Mass Spectrometry</i> , 2013, 19, 275-283.	1.0	3
365	Studies on evaluation of modified TRUEX solvent for the partitioning of minor actinides. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 302, 1195-1199.	1.5	3
366	A Novel Solvent System Involving Terpyridine and Cyanex-301 for Am(III) and Eu(III) Separation from Weakly Acidic Feeds. <i>Separation Science and Technology</i> , 2014, 49, 2734-2740.	2.5	3
367	Extractant mediated nano-aggregate formation in Triton X-114 aided cloud formation: structural insights from TEM and SANS studies. <i>RSC Advances</i> , 2015, 5, 95613-95617.	3.6	3
368	Supercritical Fluid Dissolution and Extraction of Trivalent Metal Cations from Different Matrices. <i>Separation Science and Technology</i> , 2015, 50, 471-477.	2.5	3
369	Evaluation of radiation resistance of hollow fibers for possible application in radioactive waste treatment. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 311, 673-679.	1.5	3
370	Selective pertraction of plutonium(IV) from acidic feeds across PTFE flat sheets containing diamides with a tri-aryl-pyridine (TAP) Centre. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102929.	6.7	3
371	Two novel extraction chromatographic resins containing benzene-centered tripodal diglycolamide ligands: Actinide uptake, kinetic modeling and isotherm studies. <i>Journal of Chromatography A</i> , 2019, 1598, 58-66.	3.7	3
372	Extraction of plutonium(IV) from acidic feeds using several diamides with a tri-phenyl pyridine centre. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 320, 245-253.	1.5	3
373	Selective permeation of 90Y from a mixture of 90Y/90Sr through diglycolamide impregnated supported liquid membranes. <i>Applied Radiation and Isotopes</i> , 2021, 170, 109604.	1.5	3
374	Understanding the unique paradigm in the extraction of tri- and tetravalent actinide/lanthanide ions by a diglycolamide-functionalized dendrimer in RTIL medium. <i>New Journal of Chemistry</i> , 2021, 45, 22044-22048.	2.8	3
375	Complexation of a tris-bipyridine cryptand with americium(III). <i>Polyhedron</i> , 1993, 12, 1115-1117.	2.2	2
376	The unusual extraction behavior of americium(III) and dioxouranium(VI) from picric acid medium using neutral oxodonors II. A thermodynamic study. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1999, 240, 159-164.	1.5	2
377	The 2nd Biennial Symposium on Emerging Trends in Separation Science and Technology. <i>Desalination</i> , 2008, 232, 1-2.	8.2	2
378	Separation Study of Am(III) and Eu(III) Using a Synergistic System of Cyanex-301 and 4,7-di-Phenyl-1,10-Phenanthroline. <i>Separation Science and Technology</i> , 2011, 46, 376-383.	2.5	2

#	ARTICLE	IF	CITATIONS
379	Selective separation of Cs(I) extraction from actual high level waste using a solvent containing calix [4]-bis 2,3-naphtho-crown-6. Desalination and Water Treatment, 2012, 38, 59-64.	1.0	2
380	The Role of Residual Charges in the Interaction between NpO ₂ ⁺ and Th ⁴⁺ Cations: Spectrophotometric and Computational Studies. European Journal of Inorganic Chemistry, 2014, 2014, 3547-3554.	2.0	2
381	Extraction of ¹³⁷ Cs from Acidic Feed by Centrifugal Contactors Using a Solution of Calix[4]arene-bis-1,2-benzo-crown-6 in Phenyltrifluoromethyl Sulphone. Nuclear Technology, 2019, 205, 1119-1125.	1.2	2
382	Radiation stability of ceramic tubular membranes containing ammonium molybdophosphate (AMP) for the application of radio-caesium recovery from radioactive wastes. Journal of Radioanalytical and Nuclear Chemistry, 2020, 326, 1631-1638.	1.5	2
383	Role of diluent in the unusual extraction of Am ³⁺ and Eu ³⁺ ions with benzene-centered tripodal diglycolamides: local structure studies using luminescence spectroscopy and XAS. New Journal of Chemistry, 2021, 45, 16794-16803.	2.8	2
384	Ligand Structure and Topology Effects in Complexation Selectivity of Am ³⁺ and Eu ³⁺ with O^2- , N^3- and S^2- Heterocyclic Diamides: A DFT Study. ChemistrySelect, 2021, 6, 4651-4660.	1.5	2
385	Unique transport behaviour of Am(III)/Eu(III) ions across a supported liquid membrane containing a TREN-based diglycolamide dendrimer ligand. Radiochimica Acta, 2022, 110, 229-237.	1.2	2
386	Unique Eu(III) transport selectivity seen using a supported liquid membrane containing a diglycolamide dendrimer ligand. Separation Science and Technology, 0, , 1-13.	2.5	2
387	Partitioning of Americium(III) in Polyethyleneglycol based Aqueous Biphasic Systems in Presence of Phosphotungstic Acid. Radiochimica Acta, 1998, 81, 11-16.	1.2	1
388	Symposium on Emerging Trends in Separation Science and Technology (SESTEC-2008). Desalination and Water Treatment, 2009, 12, 1-2.	1.0	1
389	Aggregation behavior of dinonyl phenyl phosphoric acid (DNPPA): Dynamic Light Scattering and spectrophotometric investigations. International Journal of Mineral Processing, 2013, 125, 101-105.	2.6	1
390	Special Issue on Progress Using Ionic Liquids in Liquid-Liquid Extraction. Solvent Extraction and Ion Exchange, 2018, 36, 517-518.	2.0	1
391	First Report on the Complexation of Uranyl Ion with Two Diglycolamide Ligands in a Room Temperature Ionic Liquid: Optical Spectroscopy and Calorimetric Studies. ChemistrySelect, 2021, 6, 6037-6042.	1.5	1
392	Luminescence spectroscopic investigations of europium complexes formed in the kaolinite-humic acid/citric acid systems. Radiochimica Acta, 2020, 108, 859-871.	1.2	1
393	Novel Calix[4]arene Functionalized Diglycolamides for Separation of Actinides: Supported Liquid Membrane Studies. Procedia Engineering, 2012, 44, 959-960.	1.2	0
394	Comparative Evaluation of Two Calix-Crown-6 Compounds for Cesium Transport from Acidic Feed Solutions. Procedia Engineering, 2012, 44, 961-963.	1.2	0
395	Separation Science in Nuclear Technology in India. Radiochimica Acta, 2015, 103, 233-233.	1.2	0
396	Separation Science and Technology in India. Radiochimica Acta, 2017, 105, 263-263.	1.2	0

#	ARTICLE	IF	CITATIONS
397	Facilitated transport of uranium(VI) across supported liquid membranes (SLM) containing T2FHDDGA: Part II. Nature of feed, pore size and temperature on pertraction rates 38(2012)207-214 DOI: https://doi.org/10.5004/dwt.2012.2320 Received:17/02/2011; Accepted: 28/08/2011; Abstract (11341) Tj ETQq1 1 0.784314 rgBT /Ov	0	0
398	P.K. Tewari Feasibility study of novel sorbent for chromium sequestration and enhanced immobilization 38(2012)215-221 DOI: https://doi.org/10.5004/dwt.2012.2320 Received:17/02/2011; Accepted: 28/08/2011; Abstract (11341) Tj ETQq1 1 0.784314 rgBT /Ov Supercritical fluid extraction of uranium from sintered oxides(UO ₂ , (U,Th)O ₂), soil and ore samples using tri-n-butylphosphate and N,N-di (2-ethylhexyl) isobutyramide as extractants. , 0, 38, 190-194.	0	0
399	Strontium: Removal and Recovery by Supported Liquid Membranes. , 2013, , 1-3.	0	0
400	Crown Ethers. , 2014, , 1-2.	0	0
401	Americium Separation by Membrane Operation. , 2015, , 1-3.	0	0
402	Crown Ethers. , 2016, , 488-490.	0	0
403	Strontium: Removal and Recovery by Supported Liquid Membranes. , 2016, , 1831-1833.	0	0
404	Americium Separation by Membrane Operation. , 2016, , 59-61.	0	0
405	Highly efficient Plutonium(IV) uptake from acidic feeds using four extraction chromatography resins containing diglycolamides and ionic liquid. Journal of Chromatography A, 2022, 1665, 462816.	3.7	0
406	Complexation thermodynamics of UO ₂ ²⁺ /diglycolamide complex in a room temperature ionic liquid: A study by optical spectroscopy and microcalorimetry. Polyhedron, 2022, 220, 115820.	2.2	0