

Prasanta K Mohapatra

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394
papers

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61
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411
ext. papers

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ext. citations

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avg, IF

6.32
L-index

#	Paper	IF	Citations
394	Chemistry of diglycolamides: promising extractants for actinide partitioning. <i>Chemical Reviews</i> , 2012 , 112, 1751-72	68.1	444
393	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	8.3	114
392	Actinide ion extraction using room temperature ionic liquids: opportunities and challenges for nuclear fuel cycle applications. <i>Dalton Transactions</i> , 2017 , 46, 1730-1747	4.3	98
391	Highly efficient diglycolamide-based task-specific ionic liquids: synthesis, unusual extraction behaviour, irradiation, and fluorescence studies. <i>Chemistry - A European Journal</i> , 2013 , 19, 3230-8	4.8	97
390	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, 2533-41	5.1	97
389	A highly efficient solvent system containing functionalized diglycolamides and an ionic liquid for americium recovery from radioactive wastes. <i>Dalton Transactions</i> , 2012 , 41, 6970-9	4.3	92
388	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	3.7	92
387	Comparative evaluation of two substituted diglycolamide extractants for actinide partitioning. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2010 , 284, 377-385	1.5	88
386	A review on solid phase extraction of actinides and lanthanides with amide based extractants. <i>Journal of Chromatography A</i> , 2017 , 1499, 1-20	4.5	86
385	Facilitated transport of americium(III) from nitric acid media using dimethyldibutyltetradecyl-1,3-malonamide. <i>Journal of Membrane Science</i> , 2000 , 177, 163-175	9.6	85
384	A novel CMPO-functionalized task specific ionic liquid: synthesis, extraction and spectroscopic investigations of actinide and lanthanide complexes. <i>Dalton Transactions</i> , 2013 , 42, 4343-7	4.3	84
383	Evaluation of polymer inclusion membranes containing crown ethers for selective cesium separation from nuclear waste solution. <i>Journal of Hazardous Materials</i> , 2009 , 169, 472-9	12.8	84
382	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	9.6	78
381	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	2.4	74
380	Ditopic CMPO-pillar[5]arenes as unique receptors for efficient separation of americium(III) and europium(III). <i>Chemical Communications</i> , 2015 , 51, 4263-6	5.8	69
379	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	3.9	68
378	Separation of Americium(III) and Europium(III) from Nitrate Medium Using a Binary Mixture of Cyanex-301 with N-donor Ligands. <i>Solvent Extraction and Ion Exchange</i> , 2006 , 24, 1-17	2.5	65

377	Complexation of novel diglycolamide functionalized calix[4]arenes: unusual extraction behaviour, transport, and fluorescence studies. <i>Dalton Transactions</i> , 2012 , 41, 360-3	4.3	63
376	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, 3913-21	5.1	62
375	Evaluation of calix-crown ionophores for selective separation of radio-caesium from acidic nuclear waste solution. <i>Analytica Chimica Acta</i> , 2006 , 571, 308-14	6.6	57
374	Efficient solvent system containing malonamides in room temperature ionic liquids: actinide extraction, fluorescence and radiolytic degradation studies. <i>Dalton Transactions</i> , 2013 , 42, 1519-29	4.3	55
373	Auto-assembling of ditopic macrocyclic lanthanide chelates with transition-metal ions. Rigid multimetallic high relaxivity contrast agents for magnetic resonance imaging. <i>Inorganic Chemistry</i> , 2006 , 45, 5092-102	5.1	55
372	Actinide Partitioning with a Modified TODGA Solvent: Counter-Current Extraction Studies with Simulated High Level Waste. <i>Solvent Extraction and Ion Exchange</i> , 2012 , 30, 156-170	2.5	53
371	A diglycolamide-functionalized task specific ionic liquid (TSIL) for actinide extraction: Solvent extraction, thermodynamics and radiolytic stability studies. <i>Separation and Purification Technology</i> , 2013 , 118, 264-270	8.3	52
370	Development of T2EHDGA Based Process for Actinide Partitioning. Part I: Batch Studies for Process Optimization. <i>Solvent Extraction and Ion Exchange</i> , 2010 , 28, 350-366	2.5	52
369	Evaluation of N,N,N',N'-tetraoctyl-3-oxapentane-diamide (TODGA) as a mobile carrier in remediation of nuclear waste using supported liquid membrane. <i>Journal of Membrane Science</i> , 2007 , 298, 169-174	9.6	52
368	Studies on uranium(VI) pertraction across a N,N,N',N'-tetraoctyldiglycolamide (TODGA) supported liquid membrane. <i>Journal of Membrane Science</i> , 2009 , 337, 274-281	9.6	51
367	Evaluation of a supported liquid membrane containing a macrocyclic ionophore for selective removal of strontium from nuclear waste solution. <i>Journal of Membrane Science</i> , 2006 , 275, 82-88	9.6	50
366	Unique selectivity reversal in Am(3+)-Eu(3+) extraction in a tripodal TREN-based diglycolamide in ionic liquid: extraction, luminescence, complexation and structural studies. <i>Dalton Transactions</i> , 2016 , 45, 2476-84	4.3	49
365	Demonstration of T2EHDGA Based Process for Actinide Partitioning Part II: Counter-Current Extraction Studies. <i>Solvent Extraction and Ion Exchange</i> , 2010 , 28, 764-777	2.5	48
364	Selective transport of cesium using a supported liquid membrane containing di-t-butyl benzo 18 crown 6 as the carrier. <i>Journal of Membrane Science</i> , 2004 , 232, 133-139	9.6	48
363	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	9.6	47
362	Uptake of Metal Ions by Extraction Chromatography Using Dimethyl Dibutyl Tetradecyl-1,3-malonamide (DMDBTDMA) as the Stationary Phase. <i>Separation Science and Technology</i> , 2000 , 35, 39-55	2.5	46
361	Benzene-centered tripodal diglycolamides: synthesis, metal ion extraction, luminescence spectroscopy, and DFT studies. <i>Dalton Transactions</i> , 2017 , 46, 1431-1438	4.3	45
360	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	8.3	45

359	Separation of trivalent actinides and lanthanides using various N,O,S and mixed N,O donor ligands: a review. <i>Radiochimica Acta</i> , 2019 , 107, 931-949	1.9	44
358	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	8.3	43
357	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	5.5	43
356	Complexation thermodynamics of diglycolamide with f-elements: solvent extraction and density functional theory analysis. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 9816-28	3.6	43
355	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	2.5	42
354	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	4.3	41
353	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	9.6	41
352	Extraction of radiostrontium from nuclear waste solution using crown ethers in room temperature ionic liquids. <i>Supramolecular Chemistry</i> , 2012 , 24, 771-778	1.8	40
351	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	5.5	39
350	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	9.6	39
349	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	38
348	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	9.6	36
347	Dicyclohexano 18 crown 6 in butanol-octanol mixture: A promising extractant of Sr(II) from nitric acid medium. <i>Talanta</i> , 1997 , 45, 387-95	6.2	36
346	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	3.6	36
345	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	1.1	35
344	Remarkable acidity independent actinide extraction with a both-side diglycolamide-functionalized calix[4]arene. <i>Dalton Transactions</i> , 2013 , 42, 8558-62	4.3	35
343	A novel malonamide grafted polystyrene-divinyl benzene resin for extraction, pre-concentration and separation of actinides. <i>Journal of Hazardous Materials</i> , 2009 , 161, 1323-9	12.8	35
342	Diglycolamide-functionalized task specific ionic liquids for nuclear waste remediation: extraction, luminescence, theoretical and EPR investigations. <i>RSC Advances</i> , 2014 , 4, 46613-46623	3.7	34

341	Facilitated transport of uranium(VI) across supported liquid membranes containing T2EHDGA as the carrier extractant. <i>Journal of Hazardous Materials</i> , 2011 , 188, 281-7	12.8	34
340	Selective separation of radio-caesium from acidic solutions using supported liquid membrane containing chlorinated cobalt dicarbollide (CCD) in phenyltrifluoromethyl sulphone (PTMS). <i>Journal of Hazardous Materials</i> , 2010 , 181, 679-85	12.8	33
339	Synthesis of N,N'-dimethyl-N,N'-dibutyl malonamide functionalized polymer and its sorption affinities towards U(VI) and Th(IV) ions. <i>Talanta</i> , 2007 , 73, 878-85	6.2	33
338	Extraction of ternary complexes of thorium(IV) with 3-phenyl-4-benzoyl-5-isoxazolone and neutral donors from nitric acid medium. <i>Talanta</i> , 1996 , 43, 1305-12	6.2	33
337	Performance of some extractants used for actinide partitioning in a comparative hollow fibre supported liquid membrane transport study using simulated high level nuclear waste. <i>Journal of Membrane Science</i> , 2009 , 337, 304-309	9.6	32
336	Uranium pertraction across a PTFE flatsheet membrane containing Aliquat 336 as the carrier. <i>Separation and Purification Technology</i> , 2006 , 51, 24-30	8.3	32
335	Separation of ⁹⁰ Y from ⁹⁰ Sr using zirconium vanadate as the ion exchanger. <i>Applied Radiation and Isotopes</i> , 2004 , 60, 621-4	1.7	32
334	Judd-Olfelt parameters of diglycolamide-functionalized calix[4]arene Eu ³⁺ complexes in room temperature ionic liquid for structural analysis: Effects of solvents and ligand stereochemistry. <i>Journal of Luminescence</i> , 2014 , 148, 174-180	3.8	30
333	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	9.6	30
332	Liquid-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. <i>Journal of Hazardous Materials</i> , 2011 , 195, 238-44	12.8	30
331	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	30
330	Investigations on preferential Pu(IV) extraction over U(VI) by N,N-dihexyloctanamide versus tri-n-butyl phosphate: evidence through small angle neutron scattering and DFT studies. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 3996-4004	2.8	29
329	Radiolytic Stability of N,N,N',N'-Tetraoctyl Diglycolamide (TODGA) in the Presence of Phase Modifiers Dissolved in n-Dodecane. <i>Solvent Extraction and Ion Exchange</i> , 2012 , 30, 278-290	2.5	29
328	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. <i>Chemical Engineering Journal</i> , 2011 , 174, 110-116 ^{14.7}	14.7	29
327	A trialkyl phosphine oxide functionalized task specific ionic liquid for actinide ion complexation: extraction and spectroscopic studies. <i>RSC Advances</i> , 2016 , 6, 19763-19767	3.7	28
326	Extraction chromatography of lanthanides using N,N,N',N'-tetraoctyl diglycolamide (TODGA) as the stationary phase. <i>Desalination</i> , 2008 , 229, 294-301	10.3	28
325	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	27
324	Effect of successive alkylation of N,N-dialkyl amides on the complexation behavior of uranium and thorium: solvent extraction, small angle neutron scattering, and computational studies. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 14388-96	3.4	27

- 323 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. *Journal of Physical Chemistry B*, **2013**, 117, 9821-8 3.4 27
- 322 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). *Separation Science and Technology*, **2009**, 44, 3664-3678 2.5 27
- 321 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. *Desalination*, **2006**, 198, 166-172 10.3 27
- 320 Distribution Behavior of U(VI), Th(IV), and Fission Products with Di(2-ethylhexyl) Isobutyramide under Process Conditions. *Industrial & Engineering Chemistry Research*, **2004**, 43, 4369-4375 3.9 27
- 319 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 9.6 26
- 318 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, 347-51 9.3 25
- 317 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. *Journal of Membrane Science*, **2011**, 384, 37-43 9.6 25
- 316 Separation of ^{90}Y from ^{90}Sr by a solvent extraction method using N,N,N',N'-tetraoctyl diglycolamide (TODGA) as the extractant. *Applied Radiation and Isotopes*, **2011**, 69, 158-62 1.7 25
- 315 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. *Separation and Purification Technology*, **2016**, 170, 208-216 8.3 25
- 314 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. *RSC Advances*, **2015**, 5, 35821-35829 3.7 24
- 313 Comparative dispersion-free solvent extraction of Uranium(VI) and Thorium(IV) by TBP and dialkyl amides using a hollow fiber contactor. *Separation and Purification Technology*, **2016**, 159, 161-168 8.3 24
- 312 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 9.6 24
- 311 Complexation of trivalent lanthanides and actinides with several novel diglycolamide-functionalized calix[4]arenes: solvent extraction, luminescence and theoretical studies. *RSC Advances*, **2013**, 3, 9296 3.7 24
- 310 Pertraction of plutonium in the + 4 oxidation state through a supported liquid membrane containing TODGA as the carrier. *Desalination*, **2010**, 262, 57-63 10.3 24
- 309 Ion-pair extraction of uranyl ion from aqueous medium using crown ethers. *Talanta*, **1998**, 47, 1271-8 6.2 24
- 308 Separation of trivalent actinides and lanthanides using a flat sheet supported liquid membrane containing Cyanex-301 as the carrier. *Separation and Purification Technology*, **2006**, 50, 278-281 8.3 24
- 307 A remarkable enhancement in $\text{Am}^{\text{III}}/\text{Eu}^{\text{III}}$ selectivity by an ionic liquid based solvent containing bis-1,2,4-triazinyl pyridine derivatives: DFT validation of experimental results. *Dalton Transactions*, **2015**, 44, 6193-201 4.3 23
- 306 Comparative evaluation of actinide ion uptake by polymer inclusion membranes containing TODGA as the carrier extractant. *Journal of Hazardous Materials*, **2014**, 275, 146-53 12.8 23

305	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	10.3	23
304	Complexation of Americium(III) with Crown Ethers in Aqueous Phase. <i>Radiochimica Acta</i> , 1991 , 55, 193-198		23
303	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	8.3	22
302	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,	1.9	22
301	Separation of neptunium and plutonium from acidic medium using 3-phenyl-4-benzoyl-5-isoxazolone. <i>Radiochimica Acta</i> , 2002 , 90, 323-327	1.9	22
300	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	21
299	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	4.3	21
298	Cation transport across plasticized polymeric membranes containing N,N,N',N'-tetraoctyl-3-oxapentanediamide(TODGA) as the carrier. <i>Desalination</i> , 2010 , 262, 196-201	10.3	21
297	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	3.6	20
296	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	4.5	20
295	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
294	Solid phase extraction of europium and uranium using Tulsion CH-90 resin. <i>Desalination</i> , 2008 , 232, 216-224	10.3	20
293	Uranium transport using a PTFE flat-sheet membrane containing alamine 336 in toluene as the carrier. <i>Desalination</i> , 2004 , 163, 13-18	10.3	20
292	Role of ligand basicity and stereochemistry in the extraction of plutonium(IV) isoxazonates. <i>Radiochimica Acta</i> , 2003 , 91, 705-712	1.9	20
291	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	4.3	19
290	Understanding the complexation of Eu(3+) with three diglycolamide-functionalized calix[4]arenes: spectroscopic and DFT studies. <i>Dalton Transactions</i> , 2016 , 45, 5425-9	4.3	19
289	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	9.6	19
288	Binding of pyrazine-functionalized calix[4]arene ligands with lanthanides in an ionic liquid: thermodynamics and coordination modes. <i>Dalton Transactions</i> , 2015 , 44, 6416-22	4.3	18

287	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	3.6	18
286	Unusual transport behaviour of actinide ions with a novel calix[4]arene-tetra-diglycolamide (C4DGA) extractant as the carrier. <i>Journal of Membrane Science</i> , 2012 , 411-412, 64-72	9.6	18
285	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	18
284	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, 6483-8	4.5	18
283	Studies on the radiolytic stability of N,N,N',N'-tetra-2-ethylhexyl diglycolamide in n-dodecane solution containing different phase modifiers. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2011 , 288, 621-627	1.5	18
282	Extraction of Radiostrontium from Nitric Acid Medium Using Di-t-Butyl Cyclohexano 18Crown6 in an Aliphatic Alcohol Mixture Diluent. <i>Radiochimica Acta</i> , 1999 , 85, 113-118	1.9	18
281	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	2.7	18
280	Liquid-liquid extraction and pertraction behavior of Am(III) and Sr(II) with diglycolamide carrier extractants. <i>Journal of Membrane Science</i> , 2012 , 399-400, 28-36	9.6	17
279	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. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 5689-5697	2.3	17
278	Extraction of Am(III) and Eu(III) from nitrate media with Cyanex [®] -301 and neutral N ₂ O donor ligands: A thermodynamic study. <i>Radiochimica Acta</i> , 2010 , 98,	1.9	17
277	Cs ⁺ sorption onto Kutch clays: Influence of competing ions. <i>Applied Clay Science</i> , 2018 , 166, 88-93	5.2	17
276	Extraction of Uranyl Ion Using 2-Thenoyltrifluoro Acetone (HTTA) in Room Temperature Ionic Liquids. <i>Separation Science and Technology</i> , 2015 , 50, 380-386	2.5	16
275	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	12.8	16
274	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	3.8	16
273	Extraction of uranium(VI) from nitric acid solutions using N,N-dihexyloctanamide in ionic liquids: Solvent extraction and spectroscopic studies. <i>Solvent Extraction and Ion Exchange</i> , 2017 , 35, 423-438	2.5	16
272	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	4.5	16
271	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, 670-5	1.7	16
270	Separation of Carrier Free ⁹⁰ Y from ⁹⁰ Sr by Hollow Fiber Supported Liquid Membrane Containing Bis(2-ethylhexyl) Phosphonic Acid. <i>Separation Science and Technology</i> , 2011 , 46, 904-911	2.5	16

269	Transport of Thorium(IV) Across a Supported Liquid Membrane Containing N,N,N',N'-Tetraoctyl-3-oxapentanediamide (TODGA) as the Extractant. <i>Separation Science and Technology</i> , 2010 , 45, 1112-1120	2.5	16
268	Role of diluent on the extraction and transport of strontium using 4,4'(5?)di-tert-butyl-dicyclohexano-18-crown-6 (DTBCH18C6) as the extractant. <i>Radiochimica Acta</i> , 2009 , 97,	1.9	16
267	Separation and purification of americium from analytical waste solutions. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2010 , 283, 777-783	1.5	16
266	First Report on the Complexation of Actinides and Lanthanides Using 2,2',2''-(((1,4,7-Triazonane-1,4,7-triyl)tris(2-oxoethane-2,1-diyl)) tris(oxy)) tris(N, N-dioctylacetamide): Synthesis, Extraction, Luminescence, EXAFS, and DFT Studies. <i>Inorganic Chemistry</i> , 2018 , 57, 12987-12998	5.1	16
265	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 ¹⁵	3.4	15
264	Complexation of tetraalkyl diglycolamides with trivalent f-cations in a room temperature ionic liquid: extraction and spectroscopic investigations. <i>Dalton Transactions</i> , 2017 , 46, 7584-7593	4.3	15
263	Highly Efficient N-Pivot Tripodal Diglycolamide Ligands for Trivalent f-Cations: Synthesis, Extraction, Spectroscopy, and Density Functional Theory Studies. <i>Inorganic Chemistry</i> , 2019 , 58, 8633-8644 ¹⁵	5.1	15
262	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	4.5	15
261	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	4.3	15
260	Supported liquid membrane transport studies on Am(III), Pu(IV), U(VI) and Sr(II) using irradiated TODGA. <i>Journal of Hazardous Materials</i> , 2012 , 237-238, 339-46	12.8	15
259	Modified synthesis scheme for N,N'-dimethyl-N,N'-dioctyl-2,(2-hexyloxyethyl) malonamide (DMDOHEMA) and its comparison with proposed solvents for actinide partitioning. <i>Radiochimica Acta</i> , 2013 , 101, 93-100	1.9	15
258	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	1.9	15
257	Effect of temperature on pseudoternary system Tween-80-butanol-hexane-water. <i>Journal of Colloid and Interface Science</i> , 2011 , 355, 157-63	9.3	15
256	Comparative extraction efficiencies of tri-n-butyl phosphate and N,N-dihexyloctanamide for uranium recovery using supercritical CO ₂ . <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2010 , 283, 789-796	1.5	15
255	Adduct Formation of a Uranyl Isoxazolonate with Organophilic Neutral Oxodonors. <i>Radiochimica Acta</i> , 1996 , 72, 127-132	1.9	15
254	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	3.9	14
253	Radiation stability of diglycolamide functionalized calix[4]arenes in ionic liquid: Solvent extraction, EPR and GCMS studies. <i>Separation and Purification Technology</i> , 2016 , 162, 77-83	8.3	14
252	Remarkable Enhancement in Extraction of Trivalent -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	5.1	14

251	Uranium(VI) pertraction across a supported liquid membrane containing a branched diglycolamide carrier extractant: Part III. <i>Desalination</i> , 2012 , 285, 213-218	10.3	14
250	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. <i>Journal of Membrane Science</i> , 2012 , 405-406, 85-91	9.6	14
249	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	9.6	14
248	Polymeric beads containing Cyanex 923 for actinide uptake from nitric acid medium: Studies with uranium and plutonium. <i>Journal of Chromatography A</i> , 2013 , 1305, 48-54	4.5	14
247	Solid phase extraction of trivalent actinides and lanthanides using a novel CMPO-RTIL based chromatographic resin. <i>Radiochimica Acta</i> , 2013 , 101, 163-168	1.9	14
246	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. <i>Journal of Membrane Science</i> , 2013 , 430, 304-311	9.6	14
245	Separation of Am and Eu using hexa-n-octylnitrilo triacetamide (HONTA): complexation, extraction, luminescence, EXAFS and DFT studies. <i>Dalton Transactions</i> , 2017 , 46, 16631-16639	4.3	14
244	Counter-Current Extraction of Neptunium from Simulated Pressurized Heavy Water Reactor High Level Waste Using N,N,N',N'-Tetraoctyl Diglycolamide. <i>Solvent Extraction and Ion Exchange</i> , 2012 , 30, 457-468	2.5	14
243	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. <i>Desalination</i> , 2011 , 278, 405-411	10.3	14
242	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	3.1	14
241	Eu(III) sorption onto various montmorillonites: Experiments and modeling. <i>Applied Clay Science</i> , 2019 , 175, 22-29	5.2	13
240	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	13
239	A novel solvent system containing a dipicolinamide in room temperature ionic liquids for actinide ion extraction. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015 , 305, 521-528	1.5	13
238	Extracted species of Np(IV) complex with diglycolamide functionalized task specific ionic liquid: diffusion, kinetics and thermodynamics by cyclic voltammetry. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015 , 304, 563-570	1.5	13
237	An insight into the complexation of UO ₂ ²⁺ with diglycolamide-functionalized task specific ionic liquid: Kinetic, cyclic voltammetric, extraction and spectroscopic investigations. <i>Polyhedron</i> , 2015 , 102, 549-555	2.7	13
236	Polymer Inclusion Membrane Containing a Tripodal Diglycolamide Ligand: Actinide Ion Uptake and Transport Studies. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 2202-2209	3.9	13
235	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
234	Temperature Induced Emulsification and Demulsification of Pseudoternary Mixtures of Tween80/Butanol/Kerosene/Water System. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 11889-11896	3.9	13

233	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
232	Transport of thorium from nitric acid solution by non-dispersive solvent extraction using a hollow fibre contactor. <i>Desalination</i> , 2008 , 232, 272-280	10.3	13
231	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	1.9	13
230	Separation of Am ³⁺ and Eu ³⁺ using an extraction chromatographic resin containing bis(2,4,4-trimethylpentyl)dithiophosphinic acid as the stationary phase. <i>Journal of Chromatography A</i> , 2006 , 1123, 26-30	4.5	13
229	3-Phenyl-4-benzoyl-5-isoxazolone: A promising chelate extractant for actinide separation from acidic nuclear waste solutions. <i>Analytica Chimica Acta</i> , 1996 , 320, 151-154	6.6	13
228	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		13
227	Thermodynamics of biphasic lanthanide extraction by tripodal diglycolamide: a solution calorimetry study. <i>Dalton Transactions</i> , 2016 , 45, 17216-17222	4.3	13
226	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	8.3	13
225	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	8.3	12
224	Polymer Inclusion Membranes Containing N,N,N',N'-Tetra(2-ethylhexyl) Diglycolamide: Uptake Isotherm and Actinide Ion Transport Studies. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 3237-3246	3.9	12
223	Experimental measurements and correlation of the solubility of N,N-dialkylamides in supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2019 , 143, 162-170	4.2	12
222	Extraction of some Hexavalent Actinide Ions from Nitric Acid Medium using Several Substituted Diglycolamides. <i>Solvent Extraction and Ion Exchange</i> , 2014 , 32, 637-649	2.5	12
221	Superparamagnetic graphene oxide-magnetite nanoparticle composites for uptake of actinide ions from mildly acidic feeds. <i>Journal of Chromatography A</i> , 2017 , 1513, 18-26	4.5	12
220	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	3.7	12
219	Extraction of Radio-Strontium from Nitric Acid Medium Using Di-tert-Butyl Cyclohexano18-Crown-6 (DTBCH18C6) in Toluene/Octanol Diluent Mixture. <i>Separation Science and Technology</i> , 2010 , 45, 204-211	2.5	12
218	Non-Dispersive Solvent Extraction and Stripping of Neodymium (III) using a Hollow Fiber Contactor with TODGA as the Extractant. <i>Separation Science and Technology</i> , 2011 , 46, 765-773	2.5	12
217	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	1.9	12
216	Transport of lanthanides and fission products through supported liquid membranes containing N,N,N',N'-tetraoctyl diglycolamide (TODGA) as the carrier. <i>Desalination</i> , 2008 , 232, 254-261	10.3	12

215	On-line anion exchange of rutherfordium in HF/HNO ₃ and HF solutions. <i>Radiochimica Acta</i> , 2004 , 92, 379-386	1.9	12
214	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	2.5	12
213	Highly efficient separation of thorium from uranium in nitric acid feeds by solid phase extraction using Aliquat 336. <i>Separation and Purification Technology</i> , 2020 , 237, 116318	8.3	12
212	Dramatic Changes in the Solubilities of Ions Induced by Ligand Addition in Biphasic System D ₂ O/DNO ₃ //[C1C4im][Tf ₂ N]: A Phenomenological Study. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 7502-10	3.4	12
211	First Report on the Separation of Trivalent Lanthanides from Trivalent Actinides Using an Aqueous Soluble Multiple N-Donor Ligand, 2,6-bis(1 H-tetrazol-5-yl)pyridine: Extraction, Spectroscopic, Structural, and Computational Studies. <i>Inorganic Chemistry</i> , 2018 , 57, 5096-5107	5.1	11
210	Studies on the radiolytic stability of newly developed solvent systems containing four calix-crown-6 ligands for radio-cesium recovery. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014 , 302, 1087-1093	1.5	11
209	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
208	Simultaneous extraction of Cs and Sr from synthetic high level waste solutions using a solvent containing chlorinated dicarbollide and PEG-400 in PTMS. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014 , 299, 75-80	1.5	11
207	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	1.8	11
206	Separation of actinides using hollow fiber supported liquid membranes. <i>Radiochimica Acta</i> , 2009 , 97,	1.9	11
205	Pu-Th separation studies employing di(2-ethylhexyl)isobutyramide (D2EHIBA) as extractant from nitric acid medium. <i>Radiochimica Acta</i> , 2003 , 91, 379-384	1.9	11
204	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	4.3	11
203	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, 904-15	4.3	10
202	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
201	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	9.6	10
200	Liquid 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
199	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	10
198	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

197	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	10
196	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
195	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	12.8	10
194	Use of chitosan derivatives as solid phase extractors for metal ions. <i>Desalination</i> , 2008 , 232, 234-242	10.3	10
193	Extraction of Plutonium(IV) with l-Phenyl-3-Methyl-4-Benzoyl Pyrazol-5-one and Tri-n-octylphosphine Oxide. <i>Radiochimica Acta</i> , 1993 , 60, 185-188	1.9	10
192	Solvent extraction systems for mutual separation of $\text{Am}(\text{III})$ and $\text{Cm}(\text{III})$ from nitric acid solutions. A review of recent state-of-the-art. <i>Solvent Extraction and Ion Exchange</i> , 1-35	2.5	10
191	Solubility of tri-iso-amyl 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	9
190	Highly Efficient Composite Polysulfone Beads Containing a Calix[4]arene Monocrown-6 Ligand and a Room Temperature Ionic Liquid for Radiocesium Separations: Remediation of Environmental Samples. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 12460-12466	3.9	9
189	Simultaneous Extraction of Neodymium and Uranium using Hollow Fiber Supported Liquid Membrane. <i>Separation Science and Technology</i> , 2014 , 49, 1509-1520	2.5	9
188	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, 133-8	1.7	9
187	Studies on the separation of ^{90}Y from ^{90}Sr by solvent extraction and supported liquid membrane using TODGA: role of organic diluent. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013 , 295, 1683-1688	1.5	9
186	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	1.8	9
185	Role of ligand softness and diluent on the separation behaviour of $\text{Am}(\text{III})$ and $\text{Eu}(\text{III})$. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2011 , 288, 709-716	1.5	9
184	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	9
183	A Bold Actinide partitioning run at 20 L scale with hollow fibre supported liquid membrane using diglycolamide extractants. <i>Radiochimica Acta</i> , 2011 , 99, 815-821	1.9	9
182	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	10.3	9
181	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
180	Pertraction of $\text{Np}(\text{IV})$ and $\text{Pu}(\text{IV})$ across a flat sheet supported liquid membrane containing two N-pivoted tripodal diglycolamides. <i>Separation and Purification Technology</i> , 2020 , 238, 116418	8.3	9

179	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	9.6	9
178	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	8
177	Np(V) uptake by bentonite clay: Effect of accessory Fe oxides/hydroxides on sorption and speciation. <i>Applied Geochemistry</i> , 2017 , 78, 74-82	3.5	8
176	Extraction of Np ⁴⁺ and Pu ⁴⁺ from nitric acid feeds using three types of tripodal diglycolamide ligands. <i>Separation and Purification Technology</i> , 2020 , 247, 116986	8.3	8
175	Np(V) uptake by various clays. <i>Applied Geochemistry</i> , 2018 , 92, 1-8	3.5	8
174	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	6.8	8
173	Comparative evaluation of polymer inclusion membranes containing several substituted diglycolamides for actinide ion separations. <i>Journal of Membrane Science</i> , 2016 , 501, 134-143	9.6	8
172	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	8.3	8
171	First example of diglycolamide-grafted resins: synthesis, characterization, and actinide uptake studies. <i>RSC Advances</i> , 2014 , 4, 10412	3.7	8
170	Electrochemical behavior of cerium(IV) in a RTIL and its mixture with ethanol. <i>Journal of Rare Earths</i> , 2014 , 32, 641-647	3.7	8
169	Complexation of trivalent americium and lanthanides with terdentate 'N' donor ligands: the role of rigidity in the ligand structure. <i>Dalton Transactions</i> , 2014 , 43, 12422-9	4.3	8
168	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, 14058-63	4.3	8
167	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	8
166	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	9.6	8
165	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	3.6	8
164	Diglycolamide-functionalized dendrimers: Studies on Americium(III) pertraction from radioactive waste. <i>Separation and Purification Technology</i> , 2017 , 187, 110-117	8.3	8
163	An Insight into the Complexation of Trivalent Americium Vis-à-Vis Lanthanides with Bis(1,2,4-triazinyl)bipyridine Derivatives. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 820-828	2.3	8
162	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	8

161	Sorption of metal cations on suspended bentonite: effects of pH, ionic strength and complexing anions. <i>Radiochimica Acta</i> , 2014 , 102, 401-409	1.9	8
160	A rapid online estimation method for radiostrontium in soil samples using crown ether and supercritical fluid extraction. <i>Talanta</i> , 2012 , 99, 744-9	6.2	8
159	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		8
158	Cation-exchange separation of uranium from thorium in nitric acid medium. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2006 , 268, 323-328	1.5	8
157	1-Phenyl-3-methyl-4-benzoyl-pyrazolone-5: A Promising Extractant for Plutonium. <i>Separation Science and Technology</i> , 1994 , 29, 1073-1086	2.5	8
156	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	2.5	8
155	Separation of neptunium from actinides by monoamides: a solvent extraction study. <i>Radiochimica Acta</i> , 2019 , 107, 369-376	1.9	8
154	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	3.6	8
153	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	6.8	8
152	Extraction of plutonium(IV) by diglycolamide extractants in room temperature ionic liquids. <i>Radiochimica Acta</i> , 2017 , 105, 285-293	1.9	7
151	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	7
150	Pertraction of radio-caesium 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	9.6	7
149	Np(IV) complex with task-specific ionic liquid based on CMPO: first cyclic voltammetric study. <i>Monatshefte für Chemie</i> , 2015 , 146, 1815-1821	1.4	7
148	New extractant N,N'-dimethyl-N,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	8.3	7
147	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	1.8	7
146	Extraction of (Np^{4+}) and (NpO_2^{2+}) from Nitric Acid Medium Using TODGA in Room Temperature Ionic Liquids. <i>Journal of Solution Chemistry</i> , 2018 , 47, 1326-1338	1.8	7
145	Development of a potentiometric sensor for europium(III) based on N, N, N', N'-tetraoctyldiglycolamide (TODGA) as the ionophore. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 808, 340-347	4.1	7
144	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	2.5	7

143	A novel dipicolinamide-dicarbollide synergistic solvent system for actinide extraction. <i>Radiochimica Acta</i> , 2014 , 102,	1.9	7
142	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	3.7	7
141	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
140	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	1.9	7
139	Thermodynamics of strontium extraction using substituted crown ethers in mixtures of aliphatic alcohols. <i>Radiochimica Acta</i> , 2000 , 88, 885-888	1.9	7
138	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	7
137	Complexation of europium(III) and americium(III) with ionizable macrocyclic ligands. <i>Polyhedron</i> , 1990 , 9, 2455-2461	2.7	7
136	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	7
135	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	8.5	7
134	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	2.7	6
133	Comparison of Different HFSLM Configurations for Separation of Neodymium and Uranium. <i>Separation Science and Technology</i> , 2015 , 50, 332-342	2.5	6
132	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	2.5	6
131	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	3.7	6
130	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	3.7	6
129	Complexation of 2-thenoyltrifluoroacetone (HTTA) with trivalent f-cations in an ionic liquid: solvent extraction and spectroscopy studies. <i>New Journal of Chemistry</i> , 2019 , 43, 13675-13680	3.6	6
128	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
127	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	6
126	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	10.3	6

125	Composite polymeric beads containing N,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	4.5	6
124	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
123	Liquid-liquid extraction of Np ⁴⁺ and Pu ⁴⁺ using several tetra-alkyl substituted diglycolamides. <i>Radiochimica Acta</i> , 2013 , 101, 719-724	1.9	6
122	Transport of americium(III) across SLM containing CMPO as the carrier extractant. <i>Desalination and Water Treatment</i> , 2009 , 12, 73-78		6
121	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	1.8	6
120	Role of Ligand Structure and Basicity on the Extraction of Uranyl Isoxazolonate Adducts. <i>Solvent Extraction and Ion Exchange</i> , 2004 , 22, 13-29	2.5	6
119	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	1.9	6
118	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	12.8	6
117	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	2.3	6
116	Glycolamide-functionalized ionic liquid: Synthesis and actinide ion extraction studies. <i>Separation Science and Technology</i> , 2017 , 52, 1430-1440	2.5	5
115	Understanding the recovery of Ruthenium from acidic feeds by oxidative solvent extraction studies. <i>Radiochimica Acta</i> , 2019 , 107, 423-429	1.9	5
114	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
113	A highly efficient solvent system containing chlorinated cobalt dicarbollide in NPOE/Dodecane mixture for effective transport of radio-caesium from acidic wastes. <i>Journal of Membrane Science</i> , 2014 , 469, 59-66	9.6	5
112	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. <i>Desalination and Water Treatment</i> , 2012 , 38, 199-203		5
111	Selective recovery of uranium from THOREX feed by hollow fibre supported liquid membrane technique containing di(2-ethylhexyl) isobutyramide (D2EHIBA) as the carrier. <i>Radiochimica Acta</i> , 2010 , 98, 259-266	1.9	5
110	Cs(I) extraction / transport studies using irradiated calix [4]-bis 2,3-naphtho-crown-6. <i>Desalination and Water Treatment</i> , 2009 , 12, 52-56		5
109	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		5
108	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	5

107	Extraction of neptunium(IV) by a mixture of 3-phenyl-4-acetyl-5-isoxazolone and tri-n-octyl phosphine oxide. <i>Radiochimica Acta</i> , 2006 , 94,	1.9	5
106	Extraction of tetravalent neptunium isoxazonates as their TOPO adducts. <i>Radiochimica Acta</i> , 2004 , 92, 95-100	1.9	5
105	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	5
104	Complexation of americium(III) with a diazacrown ether. <i>Polyhedron</i> , 1995 , 14, 1993-1997	2.7	5
103	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. <i>Journal of the Chemical Society Dalton Transactions</i> , 1995 , 1583-1585		5
102	Laboratory studies on the adsorption behavior of americium. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1992 , 156, 215-221	1.5	5
101	Complexation of actinides with ionisable macrocyclic ligands. <i>Inorganica Chimica Acta</i> , 1990 , 170, 141-143.	1.7	5
100	Recovery of radio-cesium 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	6.8	5
99	Evaluation of two aza-crown ether-based multiple diglycolamide-containing ligands for complexation with the tetravalent actinide ions Np and Pu: extraction and DFT studies.. <i>RSC Advances</i> , 2019 , 9, 31928-31935	3.7	5
98	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	5.5	5
97	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
96	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	4.5	5
95	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	4.3	5
94	Selective uptake of thorium(IV) from nitric acid medium using two extraction chromatographic resins based on diglycolamide-calix[4]arenes: Application to thorium-uranium separation in an actual sample. <i>Journal of Chromatography A</i> , 2021 , 1653, 462401	4.5	5
93	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	4
92	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	8.5	4
91	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. <i>European Journal of Inorganic Chemistry</i> , 2020 , 2020, 191-199	2.3	4
90	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	3.9	4

89	Novel polymer inclusion membranes containing T2EHDGA as carrier extractant for actinide ion uptake from acidic feeds. <i>Radiochimica Acta</i> , 2015 , 103, 257-264	1.9	4
88	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	4
87	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	4
86	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
85	Characterization of purified ²⁴¹ Am for common impurities by instrumental neutron activation analysis. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2011 , 287, 281-285	1.5	4
84	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	2.5	4
83	Extraction of Americium from Nitric Acid Medium Using 3-Phenyl-4-benzoyl-5-isoxazolone and Tri-n-octylphosphine Oxide. <i>Separation Science and Technology</i> , 1999 , 34, 123-137	2.5	4
82	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	4
81	Extraction of Am(III) and Cm(III) with l-Phenyl-3-Methyl-4-Acetyl-Pyrazolone-5. <i>Radiochimica Acta</i> , 1992 , 57, 25-28	1.9	4
80	Extraction of Plutonium(IV) with Ionizable Macrocyclic Ligands. <i>Radiochimica Acta</i> , 1990 , 50, 209-214	1.9	4
79	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	5.5	4
78	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	4.5	4
77	Demonstration of Hollow Fiber Membrane Technique for the Recovery of Plutonium from Analytical Laboratory Waste. <i>Nuclear Technology</i> , 2019 , 205, 727-735	1.4	4
76	Evaluation of several novel diamide based ligands for selective extraction of tetravalent plutonium. <i>Radiochimica Acta</i> , 2017 , 105, 303-310	1.9	3
75	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	1.9	3
74	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	4.5	3
73	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	1.8	3
72	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

71	Effect of irradiation on some actinide and fission product ions' extraction using several tetraalkyl diglycolamides. <i>Radiochimica Acta</i> , 2015 , 103, 335-344	1.9	3
70	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	1.9	3
69	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
68	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
67	Studies on Separation of ⁹⁰ Y and ⁹⁰ Sr Separation from Hydrochloric Acid Solutions Using TODGA as the Extractant by SLM Method. <i>Procedia Chemistry</i> , 2012 , 7, 191-194		3
66	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
65	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, 6274-80	3.6	3
64	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
63	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	1.9	3
62	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		3
61	Highly efficient separation of ruthenium from alkaline radioactive feeds using an anion exchange resin. <i>Radiochimica Acta</i> , 2020 , 108, 603-613	1.9	3
60	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	5.1	3
59	Liquid-Liquid Extraction of Actinides from Nitric Acid Feeds Using Two Hexa-n-alkylnitrioltriacetamides. <i>Solvent Extraction and Ion Exchange</i> , 1-21	2.5	3
58	Unfolding the complexation and extraction of Am and Eu using N-heterocyclic aromatic diphosphonic acids: a combined experimental and DFT study. <i>Dalton Transactions</i> , 2019 , 48, 16279-16288	4.3	3
57	Highly Efficient Europium(III) Uptake with an Extraction Chromatographic Resin Containing a Unique Multiple Diglycolamide Ligand with a Tetraaza-12-crown-4 Scaffold. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 2613-2624	3.9	3
56	Comparative uptake studies on trivalent f-cations from acidic feeds using two extraction chromatography resins containing a diglycolamide in molecular diluent and ionic liquid. <i>Journal of Chromatography A</i> , 2021 , 1641, 461999	4.5	3
55	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	3.9	3
54	Highly efficient plutonium scavenging by an extraction chromatography resin containing a tetraaza-12-crown-4 ligand tethered with four diglycolamide pendent arms. <i>Journal of Chromatography A</i> , 2021 , 1653, 462419	4.5	3

53	Aqueous soluble N? 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	6.8	3
52	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	6.8	2
51	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	2
50	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	3.7	2
49	The Role of Residual Charges in the Interaction between NpO ₂ ⁺ and Th ⁴⁺ Cations: Spectrophotometric and Computational Studies. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 3547-3554	2.3	2
48	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, 275-83	1.1	2
47	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
46	Selective separation of Cs(I) extraction from actual high level waste using a solvent containing calix [4]-bis 2,3-naphtho-crown-6. <i>Desalination and Water Treatment</i> , 2012 , 38, 59-64		2
45	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	1.9	2
44	Synergistic Extraction Behaviour of Americium from Simulated Acidic Waste Solutions. <i>Radiochimica Acta</i> , 1998 , 81, 125-128	1.9	2
43	Ruthenium recovery from alkaline radioactive feeds using an extraction chromatography resin containing Aliquat 336. <i>Separation and Purification Technology</i> , 2021 , 259, 118099	8.3	2
42	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	2
41	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. <i>New Journal of Chemistry</i> , 2021 , 45, 16794-16803	3.6	2
40	Unusual Reversal in Pu and U Extraction in an Ionic Liquid Using Two Tripodal Diglycolamide Ligands: Experimental and DFT Studies. <i>Solvent Extraction and Ion Exchange</i> , 2018 , 36, 542-557	2.5	2
39	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 , 119584	8.3	2
38	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	4.5	2
37	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	1.9	2
36	Direct dissolution of metal oxides in ionic liquids as a smart strategy for separations: Current status and prospective. <i>Separation Science and Technology</i> , 1-32	2.5	2

35	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. <i>Nuclear Technology</i> , 2019 , 205, 1119-1125	1.4	1
34	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> , 2015 , 309, 819	1.5	1
33	Supercritical Fluid Dissolution and Extraction of Trivalent Metal Cations from Different Matrices. <i>Separation Science and Technology</i> , 2015 , 50, 471-477	2.5	1
32	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	2.3	1
31	Aggregation behavior of dinonyl phenyl phosphoric acid (DNPPA): Dynamic Light Scattering and spectrophotometric investigations. <i>International Journal of Mineral Processing</i> , 2013 , 125, 101-105		1
30	Partitioning of Americium(III) in Polyethyleneglycol based Aqueous Biphasic Systems in Presence of Phosphotungstic Acid. <i>Radiochimica Acta</i> , 1998 , 81, 11-16	1.9	1
29	The unusual extraction behavior of americium(III) and dioxouranium(VI) from picric acid medium using neutral oxodonor II. A thermodynamic study. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1999 , 240, 159-164	1.5	1
28	Complexation of a tris-bipyridine cryptand with americium(III). <i>Polyhedron</i> , 1993 , 12, 1115-1117	2.7	1
27	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	3.6	1
26	Luminescence spectroscopic investigations of europium complexes formed in the kaolinite-humic acid/citric acid systems. <i>Radiochimica Acta</i> , 2020 , 108, 859-871	1.9	1
25	Radiation stability of ceramic tubular membranes containing ammonium molybdophosphate (AMP) for the application of radio-cesium recovery from radioactive wastes. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020 , 326, 1631-1638	1.5	1
24	Europium(III) permeation through a flat sheet supported liquid membrane containing CMPO with iso-decanol phase modifier: Experimental and modeling studies. <i>Chemical Engineering Research and Design</i> , 2021 , 168, 307-316	5.5	1
23	Selective permeation of Y from a mixture of Y/Sr through diglycolamide impregnated supported liquid membranes. <i>Applied Radiation and Isotopes</i> , 2021 , 170, 109604	1.7	1
22	Carrier mediated transport of actinides using hexa β -hexylnitritolotriacetamide (HHNTA). <i>Chemical Engineering and Processing: Process Intensification</i> , 2021 , 161, 108323	3.7	1
21	Ligand Structure and Topology Effects in Complexation Selectivity of Am^{3+} and Eu^{3+} with βO^- , βN^- and βS^- Heterocyclic Diamides: A DFT Study. <i>ChemistrySelect</i> , 2021 , 6, 4651-4660	1.8	1
20	First Report on the Complexation of Uranyl Ion with Two Diglycolamide Ligands in a Room Temperature Ionic Liquid: Optical Spectroscopy and Calorimetric Studies. <i>ChemistrySelect</i> , 2021 , 6, 6037-6042	1.8	1
19	Bis-(1,2,4-triazin-3-yl) ligand structure driven selectivity reversal between Am and Cm: solvent extraction and DFT studies. <i>Dalton Transactions</i> , 2021 , 50, 7783-7790	4.3	1
18	Highly efficient diglycolamide-functionalized dendrimers for the sequestration of tetravalent actinides: solvent extraction and theoretical studies. <i>New Journal of Chemistry</i> , 2021 , 45, 9462-9471	3.6	1

17	Special Issue on Progress Using Ionic Liquids in Liquid-Liquid Extraction. <i>Solvent Extraction and Ion Exchange</i> , 2018 , 36, 517-518	2.5	1
16	Hollow fibre supported liquid membranes for nuclear fuel cycle applications: A review. <i>Cleaner Engineering and Technology</i> , 2021 , 4, 100138	2.7	1
15	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.. <i>Journal of Chromatography A</i> , 2022 , 1669, 462928	4.5	1
14	Unique Eu(III) transport selectivity seen using a supported liquid membrane containing a diglycolamide dendrimer ligand. <i>Separation Science and Technology</i> , 1-13	2.5	1
13	Liquid-Liquid Extraction and Supported Liquid Membrane Transport of Neptunium(IV) Across a Flat-Sheet Supported Liquid Membrane Containing a TREN-DGA Derivative. <i>Solvent Extraction and Ion Exchange</i> , 1-25	2.5	1
12	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	1.8	0
11	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> ,	3.6	0
10	Sequestration of Am ³⁺ and Eu ³⁺ into ionic liquid containing Aza-macrocycle based multiple-diglycolamide ligands: Extraction, complexation, luminescence and DFT studies. <i>Journal of Molecular Liquids</i> , 2022 , 347, 118291	6	0
9	Neptunium Tri-n-butyl phosphate complexes in room temperature ionic liquids: Extraction and spectroelectrochemical studies. <i>Journal of Molecular Liquids</i> , 2021 , 325, 115144	6	0
8	Ruthenium speciation in radioactive wastes and state-of-the-art strategies for its recovery: A review. <i>Separation and Purification Technology</i> , 2021 , 275, 119148	8.3	0
7	Separation Science in Nuclear Technology in India. <i>Radiochimica Acta</i> , 2015 , 103, 233-233	1.9	
6	Novel Calix[4]arene Functionalized Diglycolamides for Separation of Actinides: Supported Liquid Membrane Studies. <i>Procedia Engineering</i> , 2012 , 44, 959-960		
5	Comparative Evaluation of Two Calix-Crown-6 Compounds for Cesium Transport from Acidic Feed Solutions. <i>Procedia Engineering</i> , 2012 , 44, 961-963		
4	Highly efficient Plutonium(IV) uptake from acidic feeds using four extraction chromatography resins containing diglycolamides and ionic liquid.. <i>Journal of Chromatography A</i> , 2022 , 1665, 462816	4.5	
3	Americium Separation by Membrane Operation 2016 , 59-61		
2	Unique transport behaviour of Am(III)/Eu(III) ions across a supported liquid membrane containing a TREN-based diglycolamide dendrimer ligand. <i>Radiochimica Acta</i> , 2022 , 110, 229-237	1.9	
1	Complexation thermodynamics of UO ₂ ²⁺ /diglycolamide complex in a room temperature ionic liquid: A study by optical spectroscopy and microcalorimetry. <i>Polyhedron</i> , 2022 , 220, 115820	2.7	