

Prasanta K Mohapatra

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

394
papers

6,985
citations

41
h-index

61
g-index

411
ext. papers

7,625
ext. citations

4.5
avg, IF

6.32
L-index

#	Paper	IF	Citations
394	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
393	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	
392	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
391	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	
390	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
389	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	
388	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
387	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
386	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
385	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
384	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
383	Carrier mediated transport of actinides using hexa <i>n</i> -hexylnitritolotriacetamide (HHNTA). <i>Chemical Engineering and Processing: Process Intensification</i> , 2021 , 161, 108323	3.7	1
382	Ligand Structure and Topology Effects in Complexation Selectivity of Am ³⁺ and Eu ³⁺ with ?O?, ?N? and ?S? Heterocyclic Diamides: A DFT Study. <i>ChemistrySelect</i> , 2021 , 6, 4651-4660	1.8	1
381	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
380	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
379	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
378	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

377	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
376	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
375	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
374	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
373	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
372	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
371	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. <i>Journal of Chromatography A</i> , 2021 , 1653, 462401	4.5	5
370	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
369	Hollow fibre supported liquid membranes for nuclear fuel cycle applications: A review. <i>Cleaner Engineering and Technology</i> , 2021 , 4, 100138	2.7	1
368	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
367	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
366	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
365	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
364	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
363	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
362	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
361	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
360	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

359	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
358	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
357	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
356	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
355	Pertraction of Np(IV) and Pu(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
354	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
353	Radiation stability of ceramic tubular membranes containing ammonium molybdophosphate (AMP) for the application of radio-caesium recovery from radioactive wastes. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020 , 326, 1631-1638	1.5	1
352	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
351	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
350	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
349	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	5.1	15
348	Understanding the recovery of Ruthenium from acidic feeds by oxidative solvent extraction studies. <i>Radiochimica Acta</i> , 2019 , 107, 423-429	1.9	5
347	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
346	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
345	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
344	Separation of trivalent actinides and lanthanides using various N ₂ O ₂ E ₂ and mixed N ₂ O ₂ donor ligands: a review. <i>Radiochimica Acta</i> , 2019 , 107, 931-949	1.9	44
343	Eu(III) sorption onto various montmorillonites: Experiments and modeling. <i>Applied Clay Science</i> , 2019 , 175, 22-29	5.2	13
342	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

341	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
340	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
339	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
338	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
337	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
336	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
335	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
334	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
333	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
332	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
331	Separation of neptunium from actinides by monoamides: a solvent extraction study. <i>Radiochimica Acta</i> , 2019 , 107, 369-376	1.9	8
330	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
329	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
328	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
327	Np(V) uptake by various clays. <i>Applied Geochemistry</i> , 2018 , 92, 1-8	3.5	8
326	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
325	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
324	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

323	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
322	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
321	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
320	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
319	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
318	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
317	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
316	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
315	Cs ⁺ sorption onto Kutch clays: Influence of competing ions. <i>Applied Clay Science</i> , 2018 , 166, 88-93	5.2	17
314	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
313	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
312	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
311	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
310	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
309	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
308	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
307	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
306	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

305	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
304	Glycolamide-functionalized ionic liquid: Synthesis and actinide ion extraction studies. <i>Separation Science and Technology</i> , 2017 , 52, 1430-1440	2.5	5
303	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
302	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
301	Evaluation of several novel diamide based ligands for selective extraction of tetravalent plutonium. <i>Radiochimica Acta</i> , 2017 , 105, 303-310	1.9	3
300	Extraction of plutonium(IV) by diglycolamide extractants in room temperature ionic liquids. <i>Radiochimica Acta</i> , 2017 , 105, 285-293	1.9	7
299	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
298	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
297	Benzene-centered tripodal diglycolamides: synthesis, metal ion extraction, luminescence spectroscopy, and DFT studies. <i>Dalton Transactions</i> , 2017 , 46, 1431-1438	4.3	45
296	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
295	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
294	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
293	Diglycolamide-functionalized dendrimers: Studies on Americium(III) pertraction from radioactive waste. <i>Separation and Purification Technology</i> , 2017 , 187, 110-117	8.3	8
292	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
291	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
290	Separation of Am and Eu using hexa-n-octylnitriro triacetamide (HONTA): complexation, extraction, luminescence, EXAFS and DFT studies. <i>Dalton Transactions</i> , 2017 , 46, 16631-16639	4.3	14
289	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
288	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

287	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
286	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
285	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
284	Synthesis and characterization of magnetic copper(II)-titanate and uptake studies of americium from nuclear waste solutions. <i>RSC Advances</i> , 2016 , 6, 111822-111830	3.7	6
283	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
282	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
281	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
280	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
279	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
278	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
277	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
276	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
275	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
274	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
273	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	8.3	24
272	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
271	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
270	Americium Separation by Membrane Operation 2016 , 59-61		

269	Hollow fiber supported liquid membrane studies using a process compatible solvent containing calix[4]arene-mono-crown-6 for the recovery of radio-caesium from nuclear waste. <i>Separation and Purification Technology</i> , 2016 , 170, 208-216	8.3	25
268	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
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137	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
136	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
135	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
134	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	9.6	25
133	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
132	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
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130	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
129	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
128	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
127	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
126	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

125	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
124	Role of ligand softness and diluent on the separation behaviour of Am(III) and Eu(III). <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2011 , 288, 709-716	1.5	9
123	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
122	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
121	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, 158-62	1.7	25
120	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
119	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
118	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
117	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
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115	A Boldactinide 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
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113	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
112	Extraction of Am(III) and Eu(III) from nitrate media with Cyanex-301 and neutral N-donor ligands: A thermodynamic study. <i>Radiochimica Acta</i> , 2010 , 98,	1.9	17
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	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
109	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
108	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

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104	Separation and purification of americium from analytical waste solutions. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2010 , 283, 777-783	1.5	16
103	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
102	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
101	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
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98	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
97	Transport of americium(III) across SLM containing CMPO as the carrier extractant. <i>Desalination and Water Treatment</i> , 2009 , 12, 73-78		6
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95	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
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91	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
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82	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
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76	Use of chitosan derivatives as solid phase extractors for metal ions. <i>Desalination</i> , 2008 , 232, 234-242	10.3	10
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10	Complexation of europium(III) and americium(III) with ionizable macrocyclic ligands. <i>Polyhedron</i> , 1990 , 9, 2455-2461	2.7	7
9	Complexation of actinides with ionisable macrocyclic ligands. <i>Inorganica Chimica Acta</i> , 1990 , 170, 141-143	3.7	5
8	Extraction of Plutonium(IV) with Ionizable Macrocyclic Ligands. <i>Radiochimica Acta</i> , 1990 , 50, 209-214	1.9	4
7	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
6	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
5	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> , 1-35	2.5	10
4	Liquid-Liquid Extraction of Actinides from Nitric Acid Feeds Using Two Hexa-n-alkylnitriлотriacetamides. <i>Solvent Extraction and Ion Exchange</i> , 1-21	2.5	3
3	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
2	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
1	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