

Bruce A Moyer

List of Publications by Year in descending order

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176
papers

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199
docs citations

199
times ranked

5671
citing authors

#	ARTICLE	IF	CITATIONS
1	Anion Separation with Metal-Organic Frameworks. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 1321-1340.	1.0	341
2	Calix[4]pyrrole: An Old yet New Ion-Pair Receptor. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2537-2542.	7.2	255
3	Structural Design Criteria for Anion Hosts: Strategies for Achieving Anion Shape Recognition through the Complementary Placement of Urea Donor Groups. <i>Journal of the American Chemical Society</i> , 2005, 127, 1810-1819.	6.6	240
4	Challenges to achievement of metal sustainability in our high-tech society. <i>Chemical Society Reviews</i> , 2014, 43, 2451-2475.	18.7	208
5	Properties of the oxo/aqua system (bpy) ₂ (py)RuO ₂ ⁺ /(bpy) ₂ (py)Ru(OH ₂) ₂ ⁺ . <i>Inorganic Chemistry</i> , 1981, 20, 436-444.	1.9	182
6	Sulfate Recognition by Persistent Crystalline Capsules with Rigidified Hydrogen-Bonding Cavities. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 1866-1870.	7.2	179
7	A coordinatively saturated sulfate encapsulated in a metal-organic framework functionalized with urea hydrogen-bonding groups. <i>Chemical Communications</i> , 2005, , 5971.	2.2	168
8	Chemically catalyzed net electrochemical oxidation of alcohols, aldehydes, and unsaturated hydrocarbons using the system (trpy)(bpy)Ru(OH ₂) ₂ ⁺ /(trpy)(bpy)RuO ₂ ⁺ . <i>Journal of the American Chemical Society</i> , 1980, 102, 2310-2312.	6.6	158
9	Calix[4]pyrrole: A New Ion-Pair Receptor As Demonstrated by Liquid-Liquid Extraction. <i>Journal of the American Chemical Society</i> , 2008, 130, 4129-4139.	6.6	158
10	Recovery of Uranium from Wet Phosphoric Acid by Solvent Extraction Processes. <i>Chemical Reviews</i> , 2014, 114, 12002-12023.	23.0	151
11	Crown ethers in graphene. <i>Nature Communications</i> , 2014, 5, 5389.	5.8	142
12	Octamethyl-octaundecylcyclo[8]pyrrole: A Promising Sulfate Anion Extractant. <i>Journal of the American Chemical Society</i> , 2007, 129, 11020-11021.	6.6	139
13	Recovery of Lithium from Geothermal Brine with Lithium-Aluminum Layered Double Hydroxide Chloride Sorbents. <i>Environmental Science & Technology</i> , 2017, 51, 13481-13486.	4.6	132
14	Interaction of Cesium Ions with Calix[4]arene-bis(octylbenzo-18-crown-6): NMR and Theoretical Study. <i>Journal of Physical Chemistry B</i> , 2011, 115, 7578-7587.	1.2	131
15	A Case for Molecular Recognition in Nuclear Separations: Sulfate Separation from Nuclear Wastes. <i>Inorganic Chemistry</i> , 2013, 52, 3473-3490.	1.9	130
16	Development of Novel Bifunctional Anion-Exchange Resins with Improved Selectivity for Perchnetate Sorption from Contaminated Groundwater. <i>Environmental Science & Technology</i> , 2000, 34, 1075-1080.	4.6	125
17	Regeneration of Perchlorate (ClO ₄ ⁻)-Loaded Anion Exchange Resins by a Novel Tetrachloroferrate (FeCl ₄ ⁻) Displacement Technique. <i>Environmental Science & Technology</i> , 2001, 35, 3363-3368.	4.6	124
18	Development of Bifunctional Anion-Exchange Resins with Improved Selectivity and Sorptive Kinetics for Perchnetate: A Batch-Equilibrium Experiments. <i>Environmental Science & Technology</i> , 2000, 34, 3761-3766.	4.6	122

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19	Oxobis(2,2'-bipyridine)pyridineruthenium(IV) ion, [(bpy) ₂ (py)Ru:O] ²⁺ . Journal of the American Chemical Society, 1978, 100, 3601-3603.	6.6	116
20	Selectivity Principles in Anion Separation by Crystallization of Hydrogen-Bonding Capsules. Journal of the American Chemical Society, 2010, 132, 7177-7185.	6.6	114
21	A ROBUST ALKALINE-SIDE CSEX SOLVENT SUITABLE FOR REMOVING CESIUM FROM SAVANNAH RIVER HIGH LEVEL WASTE#. Solvent Extraction and Ion Exchange, 2000, 18, 1079-1107.	0.8	109
22	A Striking Effect of Ionic Liquid Anions in the Extraction of Sr ²⁺ and Cs ⁺ by Dicyclohexano-18-Crown-6. Solvent Extraction and Ion Exchange, 2006, 24, 19-31.	0.8	107
23	Enhanced Anion Exchange for Selective Sulfate Extraction: Overcoming the Hofmeister Bias. Journal of the American Chemical Society, 2008, 130, 14386-14387.	6.6	107
24	Lithium Recovery from Aqueous Resources and Batteries: A Brief Review. Johnson Matthey Technology Review, 2018, 62, 161-176.	0.5	107
25	Sulfate separation by selective crystallization of a urea-functionalized metal-organic framework. Chemical Communications, 2007, , 1541-1543.	2.2	103
26	Anion Coordination in Metal-Organic Frameworks Functionalized with Urea Hydrogen-Bonding Groups. Crystal Growth and Design, 2006, 6, 555-563.	1.4	101
27	Guanidinium-Based Ionic Covalent Organic Framework for Rapid and Selective Removal of Toxic Cr(VI) Oxoanions from Water. Environmental Science & Technology, 2019, 53, 878-883.	4.6	101
28	Proton-coupled electron transfer between [Ru(bpy) ₂ (py)OH ₂] ²⁺ and [Ru(bpy) ₂ (py)O] ²⁺ . A solvent isotope effect (k _{H2O} /k _{D2O}) of 16.1. Journal of the American Chemical Society, 1981, 103, 2897-2899.	6.6	95
29	Oxygen transfer in the oxidation of triphenylphosphine by (bpy) ₂ pyRuO ₂ ⁺ . Inorganic Chemistry, 1981, 20, 1475-1480.	1.9	92
30	Anion Separation by Selective Crystallization of Metal-Organic Frameworks. Inorganic Chemistry, 2006, 45, 6446-6452.	1.9	90
31	Structural Criteria for the Rational Design of Selective Ligands: Convergent Hydrogen Bonding Sites for the Nitrate Anion. Journal of the American Chemical Society, 2004, 126, 7925-7934.	6.6	89
32	Novel electrocatalytic procedure for the oxidation of alcohols, aldehydes, cyclic ketones, and carbon-hydrogen bonds adjacent to olefinic or aromatic groups. Journal of Organic Chemistry, 1984, 49, 4972-4977.	1.7	88
33	SURVEYING THE EXTRACTION OF CESIUM NITRATE BY 1,3-ALTERNATE CALIX[4]ARENE CROWN-6 ETHERS IN 1,2-DICHLOROETHANE. Solvent Extraction and Ion Exchange, 1999, 17, 1445-1459.	0.8	88
34	Controlling Cesium Cation Recognition via Cation Metathesis within an Ion Pair Receptor. Journal of the American Chemical Society, 2012, 134, 1782-1792.	6.6	87
35	Title is missing!. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2000, 36, 21-37.	1.6	84
36	KF and CsF Recognition and Extraction by a Calix[4]crown-5 Strapped Calix[4]pyrrole Multitopic Receptor. Journal of the American Chemical Society, 2012, 134, 20837-20843.	6.6	82

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37	Bipyrrole-Strapped Calix[4]pyrroles: Strong Anion Receptors That Extract the Sulfate Anion. <i>Journal of the American Chemical Society</i> , 2014, 136, 15079-15085.	6.6	79
38	SELECTIVITY IN SOLVENT EXTRACTION OF METAL IONS BY ORGANIC CATION EXCHANGERS SYNERGIZED BY MACROCYCLES: FACTORS RELATING TO MACROCYCLE SIZE AND STRUCTURE. <i>Solvent Extraction and Ion Exchange</i> , 1986, 4, 217-236.	0.8	77
39	Selective Solid-Liquid and Liquid-Liquid Extraction of Lithium Chloride Using Strapped Calix[4]pyrroles. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11924-11928.	7.2	76
40	Applicability of a Calixarene-Crown Compound for the Removal of Cesium from Alkaline Tank Waste. <i>Radiochimica Acta</i> , 1997, 76, 103-108.	0.5	72
41	Supramolecular Chemistry of Environmentally Relevant Anions. <i>Advances in Inorganic Chemistry</i> , 2006, 59, 175-204.	0.4	70
42	Outer-Sphere Water Clusters Tune the Lanthanide Selectivity of Diglycolamides. <i>ACS Central Science</i> , 2018, 4, 739-747.	5.3	69
43	Straining to Separate the Rare Earths: How the Lanthanide Contraction Impacts Chelation by Diglycolamide Ligands. <i>Inorganic Chemistry</i> , 2017, 56, 1152-1160.	1.9	68
44	Development of Effective Solvent Modifiers for the Solvent Extraction of Cesium from Alkaline High-Level Tank Waste. <i>Solvent Extraction and Ion Exchange</i> , 2003, 21, 141-170.	0.8	67
45	Synthesis of a more stable osmium ammine electron-dense DNA stain. <i>Journal of Histochemistry and Cytochemistry</i> , 1989, 37, 395-398.	1.3	66
46	Sulfate Separation from Aqueous Alkaline Solutions by Selective Crystallization of Alkali Metal Coordination Capsules. <i>Crystal Growth and Design</i> , 2011, 11, 2702-2706.	1.4	66
47	Binding Cesium Ions with Nucleosides: Templated Self-Assembly of Isoguanosine Pentamers. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 1283-1285.	7.2	65
48	Enhancement of CsNO ₃ Extraction in 1,2-Dichloroethane by Tris(2-aminoethyl)amine Triamide Derivatives via a Dual-Host Strategy. <i>Analytical Chemistry</i> , 2000, 72, 5258-5264.	3.2	64
49	Bis-lactam-1,10-phenanthroline (BLPhen), a New Type of Preorganized Mixed N,O-Donor Ligand That Separates Am(III) over Eu(III) with Exceptionally High Efficiency. <i>Inorganic Chemistry</i> , 2017, 56, 5911-5917.	1.9	64
50	A Surprising Host-Guest Relationship between 1,2-Dichloroethane and the Cesium Complex of Tetrabenzo-24-crown-8. <i>Journal of the American Chemical Society</i> , 2000, 122, 554-562.	6.6	60
51	Trefoil-Shaped Outer-Sphere Ion Clusters Mediate Lanthanide(III) Ion Transport with Diglycolamide Ligands. <i>Journal of the American Chemical Society</i> , 2017, 139, 17350-17358.	6.6	60
52	Crystallographic Evidence for Oxygen Acceptor Directionality in Oxyanion Hydrogen Bonds. <i>Journal of the American Chemical Society</i> , 2002, 124, 182-183.	6.6	59
53	Equilibrium aspects of the extraction of caesium nitrate by dicyclohexano-21-crown-7, dibenzo-21-crown-7 and bis-[tert-alkylbenzo]-21-crown-7 in 1,2-dichloroethane. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995, 91, 4215.	1.7	58
54	FUNDAMENTAL INVESTIGATIONS OF SEPARATIONS SCIENCE FOR RADIOACTIVE MATERIALS. <i>Solvent Extraction and Ion Exchange</i> , 2000, 18, 605-631.	0.8	57

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55	DEVELOPMENT OF A SOLVENT EXTRACTION PROCESS FOR CESIUM REMOVAL FROM SRS TANK WASTE. Separation Science and Technology, 2001, 36, 743-766.	1.3	52
56	Attenuation of Hofmeister bias in ion-pair extraction by a disulfonamide anion host used in strikingly effective synergistic combination with a calix-crown Cs ⁺ host. Chemical Communications, 2001, , 1620-1621.	2.2	51
57	Efficient Separation of Light Lanthanides(III) by Using Bis-lactam Phenanthroline Ligands. Chemistry - A European Journal, 2019, 25, 6326-6331.	1.7	51
58	Fluorinated calixpyrroles: anion-binding extractants that reduce the Hofmeister bias. Chemical Communications, 2003, , 2248.	2.2	48
59	Computer-Aided Molecular Design of Bis-phosphine Oxide Lanthanide Extractants. Inorganic Chemistry, 2016, 55, 5787-5803.	1.9	46
60	SXLSQA, A Computer Program for Including Both Complex Formation and Activity Effects in the Interpretation of Solvent Extraction Data. Separation Science and Technology, 1990, 25, 1675-1688.	1.3	45
61	Dideoxygenated calix[4]arene crown-6 ethers enhanced selectivity for caesium over potassium and rubidium. Chemical Communications, 1999, , 1751-1752.	2.2	43
62	RING-SIZE AND SUBSTITUENT EFFECTS IN THE SOLVENT EXTRACTION OF ALKALI METAL NITRATES BY CROWN ETHERS IN 1,2-DICHLOROETHANE AND 1 -OCTANOL. Solvent Extraction and Ion Exchange, 1996, 14, 995-1015.	0.8	40
63	Supramolecular organization of calix[4]pyrrole with a methyl-trialkylammonium anion exchanger leads to remarkable reversal of selectivity for sulfate extraction vs. nitrate. Chemical Communications, 2011, 47, 7611.	2.2	40
64	Anion Partitioning and Ion-Pairing Behavior of Anions in the Extraction of Cesium Salts by 4,5-Bis(tert-octylbenzo)dibenzo-24-crown-8 in 1,2-Dichloroethane. Inorganic Chemistry, 2007, 46, 261-272.	1.9	39
65	Structure Activity Relationship Approach toward the Improved Separation of Rare-Earth Elements Using Diglycolamides. Inorganic Chemistry, 2020, 59, 17620-17630.	1.9	39
66	Hydration of 18-crown-6 in carbon tetrachloride: infrared spectral evidence for an equilibrium between monodentate and bidentate forms of bound water in the 1:1 crown-water adduct. The Journal of Physical Chemistry, 1990, 94, 5230-5233.	2.9	38
67	Novel dual-host approach in ion pair extraction: a simple tripodal nitrate host facilitates CsNO ₃ transfer to 1,2-dichloroethane by a large crown ether. Chemical Communications, 2000, , 187-188.	2.2	38
68	Selectivity of Calix[4]arene-bis(benzocrown-6) in the Complexation and Transport of Francium Ion. Journal of the American Chemical Society, 2003, 125, 1126-1127.	6.6	37
69	A solution to stripping problems caused by organophilic anion impurities in crown-ether-based solvent extraction systems: a case study of cesium removal from radioactive wastes. Hydrometallurgy, 2004, 72, 9-19.	1.8	35
70	Synthesis and Properties of Calix[4]arene-bis(4-(2-ethylhexyl)benzo-crown-6), A Cesium Extractant with Improved Solubility. Solvent Extraction and Ion Exchange, 2004, 22, 611-636.	0.8	34
71	Lithium aluminum-layered double hydroxide chlorides (<sc>LDH</sc>): Formation enthalpies and energetics for lithium ion capture. Journal of the American Ceramic Society, 2019, 102, 2398-2404.	1.9	34
72	Development of Process Chemistry for the Removal of Cesium from Acidic Nuclear Waste by Calix[4]arene-crown-6 Ethers. ACS Symposium Series, 2000, , 26-44.	0.5	32

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73	Novel Approach to Sodium Hydroxide Separation: A Synergistic Pseudo-Hydroxide Extraction by a Fluorinated Alcohol and Cage-Functionalized Crown Ethers. <i>Journal of the American Chemical Society</i> , 2001, 123, 12099-12100.	6.6	32
74	Fundamental Studies Regarding Synergism Between Calix[4]arene-bis(<i>tert</i> -octylbenzo-crown-6) and Alcohol Modifiers in the Solvent Extraction of Cesium Nitrate. <i>Solvent Extraction and Ion Exchange</i> , 2005, 23, 23-57.	0.8	31
75	Prediction of the carrier-mediated cation flux through polymer inclusion membranes via fundamental thermodynamic quantities: complexation study of bis(dodecyloxy)calix[4]arene-crown-6 with alkali metal cations. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 1481-1491.	1.3	30
76	SOLVATOCHROMIC SOLVENT POLARITY MEASUREMENTS OF ALCOHOL SOLVENT MODIFIERS AND CORRELATION WITH CESIUM EXTRACTION STRENGTH. <i>Solvent Extraction and Ion Exchange</i> , 2001, 19, 1037-1058.	0.8	29
77	New amino-functionalized 1,3-alternate calix[4]arene bis- and mono-(benzo-crown-6 ethers) for pH-switched cesium nitrate extraction. <i>Tetrahedron Letters</i> , 2003, 44, 5397-5401.	0.7	29
78	Robustness of the CSSX Process to Feed Variation: Efficient Cesium Removal from the High Potassium Wastes at Hanford. <i>Solvent Extraction and Ion Exchange</i> , 2010, 28, 19-48.	0.8	29
79	Selective Separation of Hydroxide from Alkaline Nuclear Tank Waste by Liquid-Liquid Extraction with Weak Hydroxy Acids. <i>Environmental Science & Technology</i> , 2002, 36, 1861-1867.	4.6	28
80	Enhanced liquid-liquid anion exchange using macrocyclic anion receptors: effect of receptor structure on sulphate-nitrate exchange selectivity. <i>Supramolecular Chemistry</i> , 2010, 22, 653-671.	1.5	28
81	Use of Macrocycles in Nuclear-Waste Cleanup: A Realworld Application of a Calixcrown in Cesium Separation Technology. , 2005, , 383-405.		28
82	Extraction of copper(II) from sulfuric acid by macrocycle-synergized cation exchange: Comparing a novel impregnated resin with its solvent-extraction analog. <i>Analytical Chemistry</i> , 1993, 65, 3389-3395.	3.2	27
83	Surprisingly selective sulfate extraction by a simple monofunctional di(imino)guanidinium micelle-forming anion receptor. <i>Chemical Communications</i> , 2018, 54, 10048-10051.	2.2	27
84	An efficient synthesis of lithium-selective extractants: Tertiary-alkyl-14-crown-4 ethers. <i>Tetrahedron Letters</i> , 1993, 34, 5373-5376.	0.7	26
85	Ion interaction model applied to the cupric sulfate-sulfuric acid-water system at 25.degree.C. <i>The Journal of Physical Chemistry</i> , 1993, 97, 12343-12348.	2.9	26
86	COMPLEXATION OF STRONTIUM IN THE SYNERGISTIC EXTRACTION SYSTEM DICYCLOHEXANO-18-CROWN-6, VERSATIC ACID, CARBON TETRACHLORIDE. <i>Solvent Extraction and Ion Exchange</i> , 1986, 4, 83-93.	0.8	24
87	Minor actinide separation in the reprocessing of spent nuclear fuels. , 2015, , 289-312.		24
88	LIQUID-LIQUID EQUILIBRIUM ANALYSIS IN PERSPECTIVE.PART 1. SLOPE ANALYSIS OF THE EXTRACTION OF URANYL NITRATE FROM NITRIC ACID BY DI-2-ETHYLHEXYLSULFOXIDE. <i>Solvent Extraction and Ion Exchange</i> , 1991, 9, 833-864.	0.8	23
89	Capture and metathesis-based release of potassium salts by a multitopic ion receptor. <i>Chemical Communications</i> , 2013, 49, 2112.	2.2	23
90	Rational Design of Cesium-Selective Ionophores: Dihydrocalix[4]arene Crown-6 Ethers. <i>European Journal of Organic Chemistry</i> , 2003, 2003, 4862-4869.	1.2	22

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91	Selective carrier-mediated cesium transport through polymer inclusion membranes by calix[4]arene-crown-6 carriers from complex aqueous mixtures. <i>Radiochimica Acta</i> , 2002, 90, 43-52.	0.5	21
92	pH-Switchable Cesium Nitrate Extraction with Calix[4]arene Mono and bis(Benzo-crown-6) Ethers Bearing Amino Functionalities. <i>Solvent Extraction and Ion Exchange</i> , 2004, 22, 637-661.	0.8	21
93	Cesium Recognition by Supramolecular Assemblies of 2-Benzylphenol and 2-Benzylphenolate. <i>Structural Chemistry</i> , 1999, 10, 187-203.	1.0	20
94	DEVELOPING AND TESTING AN ALKALINE-SIDE SOLVENT EXTRACTION PROCESS FOR TECHNETIUM SEPARATION FROM TANK WASTE. <i>Separation Science and Technology</i> , 1999, 34, 1043-1068.	1.3	20
95	Sodium Sulfate Separation from Aqueous Alkaline Solutions via Crystalline Urea-Functionalized Capsules: Thermodynamics and Kinetics of Crystallization. <i>Crystal Growth and Design</i> , 2015, 15, 517-522.	1.4	20
96	Neutron Spectroscopic and Thermochemical Characterization of Lithium-Aluminum-Layered Double Hydroxide Chloride: Implications for Lithium Recovery. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20723-20729.	1.5	20
97	Molecular Recognition at Mineral Interfaces: Implications for the Beneficiation of Rare Earth Ores. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16327-16341.	4.0	20
98	Reduction of nitrate ion by (bpy) ₂ pyRu(OH) ₂ ²⁺ . <i>Journal of the American Chemical Society</i> , 1979, 101, 1326-1328.	6.6	19
99	SPECTRAL STUDIES AND EQUILIBRIUM ANALYSIS OF THE DIDODECYLNAPHTHALENE SULFONIC ACID, DICYCLOHEXANO-18-CROWN-6, Sr ²⁺ -EXTRACTION SYSTEM. <i>Solvent Extraction and Ion Exchange</i> , 1987, 5, 717-738.	0.8	19
100	Prediction of Complexation Properties of Crown Ethers Using Computational Neural Networks. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 1997, 27, 201-213.	1.6	19
101	Combined Extraction of Cesium and Strontium from Alkaline Nitrate Solutions. <i>Solvent Extraction and Ion Exchange</i> , 2006, 24, 197-217.	0.8	19
102	Extraction Chromatographic Materials for Clean Hydrometallurgical Separation of Rare-Earth Elements Using Diglycolamide Extractants. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 20081-20089.	1.8	19
103	Capping the calix: how toluene completes cesium coordination with calix[4]pyrrole. <i>Chemical Communications</i> , 2017, 53, 5610-5613.	2.2	18
104	Ion-Pair Extraction of Alkali Metal Nitrate Salts by Lipophilic, Benzo-Substituted 24-Crown-8 Ethers. <i>Separation Science and Technology</i> , 1997, 32, 275-284.	1.3	17
105	Solubility Parameters and the Distribution of Ions to Nonaqueous Solvents. <i>Journal of Physical Chemistry B</i> , 1997, 101, 6566-6574.	1.2	17
106	LIQUID-LIQUID EQUILIBRIUM ANALYSIS IN PERSPECTIVE II. COMPLETE MODEL OF WATER, NITRIC ACID, AND URANYL NITRATE EXTRACTION BY DI-2-ETHYLHEXYL SULFOXIDE IN DODECANE. <i>Solvent Extraction and Ion Exchange</i> , 2001, 19, 757-790.	0.8	17
107	Immobilization of lithium-selective 14-crown-4 on crosslinked polymer supports. <i>Polymer</i> , 2005, 46, 6347-6352.	1.8	17
108	Alternatives to Nitric Acid Stripping in the Caustic-Side Solvent Extraction (CSSX) Process for Cesium Removal from Alkaline High-Level Waste. <i>Solvent Extraction and Ion Exchange</i> , 2009, 27, 172-198.	0.8	17

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109	Direct Electrodeposition of UO ₂ from Uranyl Bis(trifluoromethanesulfonyl)imide Dissolved in 1-Ethyl-3-methylimidazolium Bis(trifluoromethanesulfonyl)imide Room Temperature Ionic Liquid System. <i>Electrochimica Acta</i> , 2014, 115, 630-638.	2.6	17
110	Dissolution of the Rare-Earth Mineral Bastnaesite by Acidic Amide Ionic Liquid for Recovery of Critical Materials. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 4354-4361.	1.0	17
111	Selective Solid-Liquid and Liquid-Liquid Extraction of Lithium Chloride Using Strapped Calix[4]pyrroles. <i>Angewandte Chemie</i> , 2018, 130, 12100-12104.	1.6	17
112	Preparation and properties of the nitrido-bridged osmium(IV) binuclear complexes [OsIV ₂ N(NH ₃) _{10-n} Cl _n]Cl _{5-n} (n = 2, 3). <i>Inorganic Chemistry</i> , 1989, 28, 4648-4650.	1.9	16
113	Equilibrium Analysis of Aggregation Behavior in the Solvent Extraction of Cu(II) from Sulfuric Acid by Didodecylphthalene Sulfonic Acid. <i>Separation Science and Technology</i> , 1993, 28, 81-113.	1.3	16
114	Ligand Design for Small Cations: The Li ⁺ /14-Crown-4 System. <i>ACS Symposium Series</i> , 1999, , 114-132.	0.5	16
115	Sequestration of trivalent americium and lanthanide nitrates with bis-lactam-1,10-phenanthroline ligand in a hydrocarbon solvent. <i>RSC Advances</i> , 2019, 9, 26537-26541.	1.7	16
116	Extraction of Cesium by a Calix[4]arene-Crown Ether Bearing a Pendant Amine Group. <i>Solvent Extraction and Ion Exchange</i> , 2007, 25, 373-388.	0.8	15
117	HYDRATION AND AGGREGATION NEUTRAL OXYGEN-DONOR EXTRACTANTS HYDRATION AND AGGREGATION OF MONOFUNCTIONAL SULFOXIDE AND OTHER NEUTRAL OXYGEN-DONOR EXTRACTANTS: THE D1 (2-ETHYLHEXYL) SULFOXIDE, DODECANE, WATER SYSTEM. <i>Solvent Extraction and Ion Exchange</i> , 1988, 6, 785-817.	0.8	14
118	Lipophilic, Mono-ionizable, Calix[4]arene-bis(benzocrown-6) Compounds for Solvent Extraction of Cesium from Nuclear Wastes: Synthesis and Evaluation. <i>Solvent Extraction and Ion Exchange</i> , 2013, 31, 683-696.	0.8	14
119	Tandem dissolution of UO ₃ in amide-based acidic ionic liquid and in situ electrodeposition of UO ₂ with regeneration of the ionic liquid: a closed cycle. <i>Dalton Transactions</i> , 2016, 45, 10151-10154.	1.6	14
120	EXTRACTION OF ZINC(II) ION BY DIDODECYLNAPHTHALENESULFONIC ACID (HDDNS) IN CARBON TETRACHLORIDE: THE ROLE OF AGGREGATION. <i>Solvent Extraction and Ion Exchange</i> , 1991, 9, 155-176.	0.8	13
121	Alkylated Lariat Ethers as Solvent Extraction Reagents: Surveying the Extraction of Alkali Metals by Bis-(2-octylbenzo-14-crown-4-acetic Acid by Use of Potentiometric Two-Phase Titration. <i>Separation Science and Technology</i> , 1993, 28, 1-23.	1.3	12
122	Complexation of Manganese(II) by Cyclohexano-15-crown-5 in Propylene Carbonate: Calorimetric and X-ray Crystallographic Investigation. <i>Inorganic Chemistry</i> , 1995, 34, 209-213.	1.9	12
123	The Design of Selective Resins for the Removal of Perchnetate and Perchlorate from Groundwater. , 2000, , 155-164.		12
124	Synergistic Pseudo-Hydroxide Extraction: Synergism and Anion Selectivity in Sodium Extraction Using a Crown Ether and a Series of Weak Lipophilic Acids. <i>Analytical Chemistry</i> , 2003, 75, 405-412.	3.2	12
125	Separation of NaOH by Solvent Extraction Using Weak Hydroxy Acids. <i>Solvent Extraction and Ion Exchange</i> , 2003, 21, 483-504.	0.8	12
126	Simple guanidinium motif for the selective binding and extraction of sulfate. <i>Separation Science and Technology</i> , 2018, 53, 1864-1873.	1.3	12

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127	Selective Extraction of Cu ²⁺ and Ag ⁺ Ions from Sulfuric Acid by Synergistic Combinations of Tetradentate Thia Macrocycles with Diododecylphthalene Sulfonic Acid. Separation Science and Technology, 1988, 23, 1325-1344.	1.3	11
128	ESTIMATING ACTIVITY AND OSMOTIC COEFFICIENTS IN UO ₂ (NO ₃) ₂ -HNO ₃ - NaNO ₃ MIXTURES. Solvent Extraction and Ion Exchange, 1988, 6, 675-697.	0.8	11
129	Equilibria and Speciation in the Solvent Extraction of Lithium Chloride by Nonamethyl-14-Crown-4 Ether in 1-Octanol. The Journal of Physical Chemistry, 1996, 100, 9500-9505.	2.9	11
130	Radiolytic Treatment of the Next-Generation Caustic-Side Solvent Extraction (NGS) Solvent and its Effect on the NGS Process. Solvent Extraction and Ion Exchange, 2015, 33, 134-151.	0.8	11
131	The Coordination Chemistry and Stoichiometry of Extracted Diglycolamide Complexes of Lanthanides in Extraction Chromatography Materials. Solvent Extraction and Ion Exchange, 2022, 40, 6-27.	0.8	11
132	EXTRACTION OF MANGANESE(II) BT MIXTURES OF DIDODECYLNAPHTHALENESULFONIC ACID AND <i>t</i> -BUTYL-CYCLOHEXANO-15-CROWN-5: SPECTRAL EVIDENCE FOR THE FORMATION OF A MANGANESE(II) - CROWN ETHER COMPLEX. Solvent Extraction and Ion Exchange, 1990, 8, 457-475.	0.8	10
133	Comprehensive Equilibrium Analysis of the Complexation of Cu(II) by Tetrathia-14-crown-4 in a Synergistic Extraction System Employing Didodecylphthalene Sulfonic Acid. Separation Science and Technology, 1995, 30, 1047-1069.	1.3	10
134	Use of Cage-Functionalized Macrocycles and Fluorinated Alcohols in the Liquid-Liquid Extraction of NaOH and Other Sodium Salts. ACS Symposium Series, 2000, , 114-132.	0.5	10
135	Interaction of the cesium cation with calix[4]arene-bis(<i>t</i> -octylbenzo-18-crown-6): Extraction and DFT study. Journal of Molecular Structure, 2013, 1033, 14-18.	1.8	10
136	Alkane-insoluble trialkylammonium double salts involving the dodecamolybdophosphate anion. I. Model studies using trioctylamine in dodecanol-modified nonane. Hydrometallurgy, 1986, 16, 177-195.	1.8	9
137	A conformationally persistent pseudo-bicyclic guanidinium for anion coordination as stabilized by dual intramolecular hydrogen bonds. RSC Advances, 2015, 5, 107266-107269.	1.7	9
138	Alkane-Insoluble Trialkylammonium Double Salts Involving the Dodecamolybdophosphate Anion. II. Effect of Amine Structure on Third-Phase Formation. Separation Science and Technology, 1987, 22, 417-445.	1.3	8
139	Extraction of Alkali Metal Cations by Lipophilic Dibenzo-14-crown-4-carboxylic Acids. Separation Science and Technology, 1995, 30, 1157-1168.	1.3	8
140	Rapid and selective redox-recyclable anion-exchange materials containing polyalkylated ferricenium anion-exchange sites. Inorganic Chemistry Communication, 1998, 1, 435-438.	1.8	8
141	An Equilibrium Model of Pseudo-Hydroxide Extraction in the Separation of Sodium Hydroxide from Aqueous Solutions using Lipophilic Fluorinated Alcohols and Phenols. Separation Science and Technology, 2005, 40, 725-738.	1.3	8
142	1,2,3,4-tetrahexyltetramethyl-calix[4]pyrrole: an easy-to-prepare, isomerically pure anion extractant with enhanced solubility in organic solvents. Supramolecular Chemistry, 2016, 28, 176-187.	1.5	8
143	Enhancing selectivity of cation exchange with anion receptors. Chemical Communications, 2019, 55, 3590-3593.	2.2	8
144	TRIALKYLAMMONIUM MIXED SALTS IN AMINE EXTRACTION SYSTEMS. INFRARED STUDY OF THE SALTS (R ₃ NH) ₃ [PMO ₁₂ O ₄₀] AND (R ₃ NH) Cl AND MIXED SALT (R ₃ NH) ₃ [PMO ₁₂ O ₄₀] 3(R ₃ NH) Cl. Solvent Extraction and Ion Exchange, 1988, 6, 1-37.	0.8	7

#	ARTICLE	IF	CITATIONS
145	Selectivity Control in Synergistic Liquid-Liquid Anion Exchange of Univalent Anions via Structure-Specific Cooperativity between Quaternary Ammonium Cations and Anion Receptors. <i>Analytical Chemistry</i> , 2012, 84, 8214-8221.	3.2	7
146	Calix[4]arene-bis(t-octylbenzo-18-crown-6) as an extraordinarily effective macrocyclic receptor for the univalent thallium cation. <i>Structural Chemistry</i> , 2014, 25, 847-852.	1.0	7
147	ALKANE-INSOLUBLE TRIALKYLAMMONIUM DOUBLE SALTS INVOLVING THE DODECAMOLYBDOPHOSPHATE ANION. III. NATURE OF A LIQUID THIRD PHASE. <i>Solvent Extraction and Ion Exchange</i> , 1987, 5, 195-203.	0.8	6
148	FTIR Spectroscopic Investigations of the Complexation of t-Butylcyclohexano-15-Crown-5 with Divalent Transition Metal Ions. <i>Journal of Coordination Chemistry</i> , 1990, 22, 331-336.	0.8	6
149	Synergistic complexation of metal ions with bifunctional interpenetrating polymer networks. <i>Reactive & Functional Polymers</i> , 1994, 24, 35-39.	0.8	6
150	PHASE VOLUME CHANGES ACCOMPANYING WATER EXTRACTION FROM AQUEOUS ELECTROLYTE SOLUTIONS BY 1-OCTANOL. <i>Solvent Extraction and Ion Exchange</i> , 1995, 13, 243-252.	0.8	6
151	Vibrational Spectroscopy of Weak Hydroxy Acids Used as Extractants of Sodium Hydroxide into 1-Octanol. <i>Applied Spectroscopy</i> , 2003, 57, 238-241.	1.2	6
152	Highly Lipophilic, Mono-ionizable Calix[4]arene-benzocrown-6 Extractants for Removal of Radiocesium from Nuclear Wastes. <i>Solvent Extraction and Ion Exchange</i> , 2013, 31, 697-714.	0.8	6
153	Critical Materials Recovery from Solutions and Wastes: Retrospective and Outlook. <i>Environmental Science & Technology</i> , 2015, 49, 9387-9389.	4.6	6
154	Thermal Degradation of the Solvent Employed in the Next-Generation Caustic-Side Solvent Extraction Process and its Effect on the Extraction, Scrubbing, and Stripping of Cesium. <i>Solvent Extraction and Ion Exchange</i> , 2015, 33, 576-591.	0.8	6
155	EXTRACTION OF Mn(II) FROM NITRIC ACID BY CROWN ETHER-SYNERGIZED CATION EXCHANGE EXTENDED EQUILIBRIUM AND INFRARED ANALYSIS*. <i>Solvent Extraction and Ion Exchange</i> , 1993, 11, 889-921.	0.8	5
156	TiO ₂ mediated photooxidation of trichloroethylene and toluene dissolved in fluorocarbon solvents. <i>Chemosphere</i> , 1995, 31, 3575-3584.	4.2	5
157	COMPARISON OF THE LIPOPHILIC REDOX-RECYCLABLE EXTRACTANT [Fe(⁵ -C ₅ H ₃ (s-C ₇ H ₁₅) ₂) ₂] WITH [N(n-C ₇ H ₁₅) ₄][NO ₃] FOR LIQUID-LIQUID ANION-EXCHANGE OF AQUEOUS ⁹⁹ TcO ₄ ⁻ . <i>Solvent Extraction and Ion Exchange</i> , 2000, 17, 553-584.	0.8	5
158	Synthesis, structure, and extraction behavior of 4,5,4',5'-tetra-tert-butyltetrabenzo-24-crown-8. <i>Perkin Transactions II RSC</i> , 2001, , 808-814.	1.1	5
159	Solvation of Calix[4]arene-bis-crown-6 Molecules. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2002, 42, 241-245.	1.6	5
160	Pseudo-Hydroxide Extraction in the Separation of Sodium Hydroxide from Aqueous Solutions Using Alkyl Phenols. <i>Solvent Extraction and Ion Exchange</i> , 2006, 24, 387-405.	0.8	5
161	Fabrication and Characterization of Composite Membranes for the Concentration of Lithium Containing Solutions Using Forward Osmosis. <i>Advanced Sustainable Systems</i> , 2020, 4, 2000165.	2.7	5
162	Dual-Host Combinations: Using Tripodal Amides to Enhance Cesium Nitrate Extraction by Crown Ethers. , 2004, , 125-150.		5

#	ARTICLE	IF	CITATIONS
163	Benzyl Phenol Derivatives: Extraction Properties of Calixarene Fragments. ACS Symposium Series, 2000, , 86-106.	0.5	4
164	Synergistic extraction of some univalent cations into nitrobenzene by using cesium dicarbollylcobaltate and calix[4]arene-bis(t-octylbenzo-18-crown-6). Journal of Radioanalytical and Nuclear Chemistry, 2013, 295, 1015-1018.	0.7	4
165	A facile synthesis and X-ray structure determination of the first triptycenocrown ethers. , 1995, 36, 8163-8163.		4
166	Synthesis, Structure, and Extraction Properties of paco-Calix[4]arene Crown-6 Ethers. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2002, 43, 55-64.	1.6	3
167	Solvent extraction of Li ⁺ , H ₃ O ⁺ and NH ₄ ⁺ into nitrobenzene by using sodium dicarbollylcobaltate and calix[4]arene-bis(t-octylbenzo-18-crown-6). Journal of Radioanalytical and Nuclear Chemistry, 2013, 295, 2171-2174.	0.7	3
168	First Experimentally Determined Thermodynamic Values of Francium: Hydration Energy, Energy of Partitioning, and Thermodynamic Radius. Journal of Physical Chemistry B, 2013, 117, 9258-9261.	1.2	3
169	Synergistic Self-Assembly of Oxoanions and d-Block Metal Ions with Heteroditopic Receptors into Triple-Stranded Helicates. Chemistry - A European Journal, 2020, 26, 14290-14294.	1.7	3
170	Interfacial precipitates containing dodecamolybdophosphate and dodecamolybdoarsenate anions in tertiary amine solvent extraction. Hydrometallurgy, 1991, 27, 113-122.	1.8	2
171	Dimerization behavior of substituted dibenzo-14-crown-4 alcohols studied by NMR spectroscopy. Supramolecular Chemistry, 1994, 3, 219-222.	1.5	2
172	Thermal stability study of a new guanidine suppressor for the next-generation caustic-side solvent extraction process. Separation Science and Technology, 2016, 51, 1133-1140.	1.3	2
173	A Photoresponsive Receptor with a 10 ⁵ Magnitude of Reversible Anion-Binding Switching. Chemistry - A European Journal, 2022, , .	1.7	2
174	ON THE ORIGIN OF HAZE IN EXTRACTION SOLVENTS: DILUTION-INDUCED SUPERSATURATION OF WATER*. Solvent Extraction and Ion Exchange, 1991, 9, 277-288.	0.8	0
175	1,2-Bis[2-(pyridin-2-yloxy)ethoxy]benzene. Acta Crystallographica Section C: Crystal Structure Communications, 1999, 55, 618-620.	0.4	0
176	Innentitelbild: Selective Solid-Liquid and Liquid-Liquid Extraction of Lithium Chloride Using Strapped Calix[4]pyrroles (Angew. Chem. 37/2018). Angewandte Chemie, 2018, 130, 11998-11998.	1.6	0