

Mark L Dietz

List of Publications by Year in descending order

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117453

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times ranked

3892
citing authors

#	ARTICLE	IF	CITATIONS
1	Systematic evaluation of hydrophobic deep eutectic solvents as alternative media for the extraction of metal ions from aqueous solution. <i>Talanta</i> , 2022, 243, 123373.	2.9	12
2	Solvent structural effects on the solubility of bis(2-ethylhexyl)phosphoric acid (HDEHP) in room-temperature ionic liquids. <i>Separation Science and Technology</i> , 2021, 56, 800-810.	1.3	3
3	Support loading effects on the performance of an extraction chromatographic resin: Toward improved separation of trivalent lanthanides. <i>Talanta</i> , 2021, 222, 121541.	2.9	8
4	Ionic liquid (IL) cation and anion structural effects on the extraction of metal ions into <i>N</i> -alkylpyridinium-based ILs by a macrocyclic polyether. <i>Solvent Extraction and Ion Exchange</i> , 2021, 39, 233-253.	0.8	2
5	Extraction chromatographic materials based on polysulfone microcapsules for the sorption of strontium from aqueous solution. <i>Reactive and Functional Polymers</i> , 2021, 160, 104829.	2.0	9
6	Metal Ion Extraction With Ionic Liquids. , 2020, , 539-564.		5
7	Systematic evaluation of hydrophobic deep-melting eutectics as alternative solvents for the extraction of organic solutes from aqueous solution. <i>RSC Advances</i> , 2019, 9, 15798-15804.	1.7	17
8	High-capacity extraction chromatographic materials based on polysulfone microcapsules for the separation and preconcentration of lanthanides from aqueous solution. <i>Talanta</i> , 2019, 197, 612-621.	2.9	17
9	Solvent Water Content as a Factor in the Design of Metal Ion Extraction Systems Employing Ionic Liquids. <i>Solvent Extraction and Ion Exchange</i> , 2018, 36, 191-205.	0.8	3
10	Determination of Extractant Solubility in Ionic Liquids by Thermogravimetric Analysis. <i>Solvent Extraction and Ion Exchange</i> , 2018, 36, 304-314.	0.8	3
11	Micelle formation as a factor influencing the mode(s) of metal ion partitioning into <i>N</i> -alkylpyridinium-based ionic liquids (ILs): implications for the design of IL-based extraction systems. <i>Green Chemistry</i> , 2017, 19, 5674-5682.	4.6	6
12	Ionic Liquid (IL) Cation and Anion Structural Effects on Metal Ion Extraction into Quaternary Ammonium-based ILs. <i>Solvent Extraction and Ion Exchange</i> , 2016, 34, 48-59.	0.8	18
13	Evaluation of solid-supported room-temperature ionic liquids containing crown ethers as media for metal ion separation and preconcentration. <i>Talanta</i> , 2015, 135, 115-123.	2.9	28
14	Rapid quantification of imidazolium-based ionic liquids by hydrophilic interaction liquid chromatography: Methodology and an investigation of the retention mechanisms. <i>Journal of Chromatography A</i> , 2015, 1400, 54-64.	1.8	25
15	Determination of Calcium in Dietary Supplements: Statistical Comparison of Methods in the Analytical Laboratory. <i>Journal of Chemical Education</i> , 2015, 92, 167-169.	1.1	7
16	Thermal Properties of Macrocyclic Polyethers: Implications for the Design of Crown Ether-Based Ionic Liquids. <i>Separation Science and Technology</i> , 2014, 49, 2847-2855.	1.3	11
17	Ionic liquid anion effects in the extraction of metal ions by macrocyclic polyethers. <i>Separation and Purification Technology</i> , 2014, 123, 145-152.	3.9	22
18	Anion Effects in the Extraction of Lanthanide 2-Thenoyltrifluoroacetone Complexes into an Ionic Liquid. <i>Separation Science and Technology</i> , 2012, 47, 233-243.	1.3	43

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19	Effect of aqueous phase anion on the mode of facilitated ion transfer into room-temperature ionic liquids. <i>Talanta</i> , 2012, 95, 25-30.	2.9	28
20	Novel tandem column method for the rapid isolation of radiostrontium from human urine. <i>Analytica Chimica Acta</i> , 2012, 746, 114-122.	2.6	10
21	Structural variations in room-temperature ionic liquids: Influence on metal ion partitioning modes and extraction selectivity. <i>Separation and Purification Technology</i> , 2012, 89, 31-38.	3.9	52
22	Hydrogen-Bonding Interactions and Protic Equilibria in Room-Temperature Ionic Liquids Containing Crown Ethers. <i>Journal of Physical Chemistry B</i> , 2011, 115, 3912-3918.	1.2	18
23	On the Radiation Stability of Crown Ethers in Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2011, 115, 3903-3911.	1.2	33
24	Extraction and Reductive Stripping of Perchnetate from Spent Nuclear Fuel Waste Streams. <i>Separation Science and Technology</i> , 2011, 46, 357-368.	1.3	18
25	Evaporation and transport of non-dilute, multi-component liquid mixtures in porous wicks: Simulation and experimental validation. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 5216-5230.	2.5	6
26	Evaporation of a Non-Dilute, Multi-Component Liquid Mixture from a Porous Wick. <i>AIP Conference Proceedings</i> , 2010, , .	0.3	2
27	Extraction of Tetra-Oxo Anions into a Hydrophobic, Ionic Liquid-Based Solvent without Concomitant Ion Exchange. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 5863-5868.	1.8	38
28	Anion concentration-dependent partitioning mechanism in the extraction of uranium into room-temperature ionic liquids. <i>Talanta</i> , 2008, 75, 598-603.	2.9	199
29	Stereochemical effects on the mode of facilitated ion transfer into room-temperature ionic liquids. <i>Green Chemistry</i> , 2008, 10, 174-176.	4.6	29
30	Carbon Dioxide Solubility Enhancement through Silicone Functionalization: CO_2 -philic Oligo(dimethylsiloxane)-substituted Diphosphonates ⁻ . <i>Separation Science and Technology</i> , 2008, 43, 2520-2536.	1.3	17
31	Acidochromic Spiropyran-Functionalized Mesoporous Silica: Towards Stimuli-Responsive Metal Ion Separations Media. <i>Separation Science and Technology</i> , 2008, 43, 2503-2519.	1.3	13
32	Solute-induced dissolution of hydrophobic ionic liquids in water [†] . <i>Talanta</i> , 2007, 72, 315-320.	2.9	49
33	Tetraalkylphosphonium Polyoxometalate Ionic Liquids: A Novel, Organic-Inorganic Hybrid Materials. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4685-4692.	1.2	154
34	Ionic Liquids as Extraction Solvents: Where do We Stand?. <i>Separation Science and Technology</i> , 2006, 41, 2047-2063.	1.3	347
35	Extraction Chromatography Versus Solvent Extraction: How Similar are They?. <i>Separation Science and Technology</i> , 2006, 41, 2163-2182.	1.3	94
36	Separation and Preconcentration of Cesium from Acidic Media by Extraction Chromatography. <i>Separation Science and Technology</i> , 2006, 41, 2183-2204.	1.3	18

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37	Fluorous ionic liquids as solvents for the liquidâ€“liquid extraction of metal ions by macrocyclic polyethers. <i>Talanta</i> , 2006, 69, 527-531.	2.9	88
38	Recent Progress in the Development of Supercritical Carbon Dioxide-Soluble Metal Ion Extractants: Solubility Enhancement through Silicon Functionalization. <i>ACS Symposium Series</i> , 2006, , 250-267.	0.5	0
39	Ionogel-Templated Synthesis and Organization of Anisotropic Gold Nanoparticles. <i>Small</i> , 2005, 1, 754-760.	5.2	90
40	The Road to Partition. <i>ACS Symposium Series</i> , 2005, , 2-18.	0.5	20
41	Characterization of an Improved Extraction Chromatographic Material for the Separation and Preconcentration of Strontium from Acidic Media. <i>Separation Science and Technology</i> , 2005, 40, 349-366.	1.3	31
42	Synergistic effects in the facilitated transfer of metal ions into room-temperature ionic liquids. <i>Green Chemistry</i> , 2005, 7, 151.	4.6	82
43	Application of Molecular Connectivity Indices to the Design of Supercritical Carbon Dioxideâ€“Soluble Metal Ion Extractants: SCâ€“CO ₂ Solubilities of Symmetrically Substituted Alkylenediphosphonic Acids. <i>Separation Science and Technology</i> , 2005, 39, 761-780.	1.3	4
44	A ternary mechanism for the facilitated transfer of metal ions into room-temperature ionic liquids (RTILs): implications for the â€œgreennessâ€œ of RTILs as extraction solvents. <i>Green Chemistry</i> , 2005, 7, 747.	4.6	169
45	Anion effects on ionogel formation in N,Nâ€“2-dialkylimidazolium-based ionic liquids. <i>Inorganica Chimica Acta</i> , 2004, 357, 3991-3998.	1.2	89
46	Synthesis of Symmetrical Methylenebis(Alkyl Hydrogen Phosphonates) by Selective Cleavage of Methylenebis(Dialkyl Phosphonates) with Morpholine. <i>Synthetic Communications</i> , 2004, 34, 331-344.	1.1	16
47	EXAFS investigations of strontium complexation by a polymer-supported crown ether. <i>Talanta</i> , 2004, 62, 109-113.	2.9	19
48	Recent Progress in the Development of Extraction Chromatographic Methods for Radionuclide Separation and Preconcentration. <i>ACS Symposium Series</i> , 2003, , 161-176.	0.5	4
49	Conventional Aspects of Unconventional Solvents: Room Temperature Ionic Liquids as Ion-Exchangers and Ionic Surfactants. <i>ACS Symposium Series</i> , 2003, , 526-543.	0.5	10
50	Influence of solvent structural variations on the mechanism of facilitated ion transfer into room-temperature ionic liquids. <i>Green Chemistry</i> , 2003, 5, 682-685.	4.6	254
51	SYNTHESIS AND CHARACTERIZATION OF METAL COMPLEXES OF P,Pâ€“2-DI[3-(TRIMETHYLSILYL)-1-PROPYL] METHYLENEDIPHOSPHONIC ACID. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2002, 32, 277-290.	1.8	4
52	EXAFS Investigations of the Mechanism of Facilitated Ion Transfer into a Room-Temperature Ionic Liquid. <i>Journal of the American Chemical Society</i> , 2002, 124, 10664-10665.	6.6	208
53	Improved stereospecific synthesis of the trans-isomers of dicyclohexano-18-crown-6 and the solid-state structure of the transâ€“synâ€“trans-isomer. <i>Tetrahedron Letters</i> , 2002, 43, 2153-2156.	0.7	20
54	Stereospecific synthesis of cisâ€“trans-dicyclohexano-18-crown-6 and K ⁺ complexation by the five dicyclohexano-18-crown-6 isomers. <i>Tetrahedron Letters</i> , 2002, 43, 5229-5232.	0.7	8

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55	Synthesis of chiral trans-anti-trans-isomers of dicyclohexano-18-crown-6 via an enzymatic reaction and the solid-state structure of one enantiomer. <i>Tetrahedron Letters</i> , 2002, 43, 5805-5808.	0.7	9
56	Lyotropic Liquid-Crystalline Gel Formation in a Room-Temperature Ionic Liquid. <i>Langmuir</i> , 2002, 18, 7258-7260.	1.6	229
57	Ion-exchange as a mode of cation transfer into room-temperature ionic liquids containing crown ethers: implications for the 'greenness' of ionic liquids as diluents in liquid-liquid extraction. <i>Chemical Communications</i> , 2001, , 2124-2125.	2.2	333
58	An improved extraction chromatographic resin for the separation of uranium from acidic nitrate media. <i>Talanta</i> , 2001, 54, 1173-1184.	2.9	70
59	Improved conditions for the addition of alkoxides to di(ethylene glycol) di- <i>p</i> -tosylate: application to the stereospecific synthesis of the trans-isomers of dicyclohexano-18-crown-6. <i>Tetrahedron Letters</i> , 2001, 42, 2945-2948.	0.7	6
60	Synthesis and Characterization of Di-[3-(Trimethylsilyl)-1-Propylene] Alkylenediphosphonic Acids. <i>Synthetic Communications</i> , 2000, 30, 2121-2132.	1.1	14
61	Nuclear Separations for Radiopharmacy:Â The Need for Improved Separations To Meet Future Research and Clinical Demands. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 3130-3134.	1.8	3
62	Radionuclide Therapy for the Treatment of Microscopic Ovarian Carcinoma:Â An Overview. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 3135-3139.	1.8	3
63	FUNDAMENTAL INVESTIGATIONS OF SEPARATIONS SCIENCE FOR RADIOACTIVE MATERIALS. <i>Solvent Extraction and Ion Exchange</i> , 2000, 18, 605-631.	0.8	57
64	Applications of Extraction Chromatography in the Development of Radionuclide Generator Systems for Nuclear Medicine. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 3181-3188.	1.8	20
65	Incorporating Size Selectivity into Synergistic Solvent Extraction:â€ A Review of Crown Ether-Containing Systems. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 3442-3464.	1.8	139
66	Extraction Chromatography: Progress and Opportunities. <i>ACS Symposium Series</i> , 1999, , 234-250.	0.5	16
67	Isomer Effects in the Extraction of Metal Ions from Acidic Nitrate Media by Dicyclohexano-18-crown-6^{â€}. <i>Radiochimica Acta</i> , 1999, 85, 119-130.	0.5	42
68	Synergistic Solvent Extraction of Alkaline Earth Cations by Mixtures of Di- <i>n</i> -octylphosphoric Acid and Stereoisomers of Dicyclohexano-18-crown-6. <i>Analytical Chemistry</i> , 1999, 71, 2757-2765.	3.2	34
69	Progress in Metal Ion Separation and Preconcentration: An Overview. <i>ACS Symposium Series</i> , 1999, , 2-12.	0.5	6
70	Comparison of Column Chromatographic and Precipitation Methods for the Purification of a Macrocyclic Polyether Extractant. <i>Separation Science and Technology</i> , 1999, 34, 2943-2956.	1.3	7
71	Effect of Crown Ethers on the Ion-Exchange Behavior of Alkaline Earth Metals. Toward Improved Ion-Exchange Methods for the Separation and Preconcentration of Radium. <i>Analytical Chemistry</i> , 1997, 69, 3028-3037.	3.2	35
72	DIPEX: A new extraction chromatographic material for the separation and preconcentration of actinides from aqueous solution. <i>Reactive and Functional Polymers</i> , 1997, 33, 25-36.	2.0	125

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73	An Improved Method for the Separation of Lead-210 from Ra-DEF for Radioactive Equilibrium Experiments: Microscale Liquid-Liquid Extraction Using a Polymer-Supported Crown Ether. <i>Journal of Chemical Education</i> , 1996, 73, 182.	1.1	5
74	Substituent Effects in the Extraction of Cesium from Acidic Nitrate Media With Macrocyclic Polyethers*. <i>Solvent Extraction and Ion Exchange</i> , 1996, 14, 357-384.	0.8	29
75	Extraction of Cesium from Acidic Nitrate Media Using Macrocyclic Polyethers : The Role of Organic Phase Water*. <i>Solvent Extraction and Ion Exchange</i> , 1996, 14, 1-12.	0.8	40
76	Separation and preconcentration of actinides by extraction chromatography using a supported liquid anion exchanger: application to the characterization of high-level nuclear waste solutions. <i>Analytica Chimica Acta</i> , 1995, 310, 63-78.	2.6	421
77	Extraction of Strontium from Acidic Nitrate Media Using a Modified PUREX Solventâ—, <i>Solvent Extraction and Ion Exchange</i> , 1995, 13, 1-17.	0.8	55
78	The Effect of High-Speed Stirring on the Distribution Equilibria of Neutral Metal Chelates. <i>Langmuir</i> , 1995, 11, 3766-3771.	1.6	0
79	Is a PhD in Chemistry Worth the Effort? - Revisited. <i>Journal of Chemical Education</i> , 1995, 72, 41.	1.1	1
80	A lead-selective extraction chromatographic resin and its application to the isolation of lead from geological samples. <i>Analytica Chimica Acta</i> , 1994, 292, 263-273.	2.6	106
81	Separation and preconcentration of actinides from acidic media by extraction chromatography. <i>Analytica Chimica Acta</i> , 1993, 281, 361-372.	2.6	444
82	THE EFFECT OF STERIC HINDRANCE OF THE AMIDIC SUBSTITUENTS OF THE CARBAMOYLMETHYLPHOSPHINE OXIDES ON THIRD PHASE FORMATION. <i>Solvent Extraction and Ion Exchange</i> , 1993, 11, 411-422.	0.8	11
83	Interfacial area measurement as a source of error in the study of extraction kinetics by the high-speed stirring technique. <i>Langmuir</i> , 1992, 8, 2341-2343.	1.6	3
84	A NOVEL STRONTIUM-SELECTIVE EXTRACTION CHROMATOGRAPHIC RESIN*. <i>Solvent Extraction and Ion Exchange</i> , 1992, 10, 313-336.	0.8	656
85	Separation and preconcentration of uranium from acidic media by extraction chromatography. <i>Analytica Chimica Acta</i> , 1992, 266, 25-37.	2.6	416
86	Role of the interface in the kinetics and mechanism of nickel extraction with certain halogen- and alkyl-substituted 8-quinolinols. <i>Langmuir</i> , 1991, 7, 284-288.	1.6	30
87	SREX: A NEWPROCESS FOR THE EXTRACTION AND RECOVERY OF STRONTIUM FROM ACIDIC NUCLEAR WASTE STREAMS. <i>Solvent Extraction and Ion Exchange</i> , 1991, 9, 1-25.	0.8	253
88	Separation and preconcentration of strontium from biological, environmental, and nuclear waste samples by extraction chromatography using a crown ether. <i>Analytical Chemistry</i> , 1991, 63, 522-525.	3.2	288
89	An Improved Method for Determining 89Sr and 90Sr in Urine. <i>Health Physics</i> , 1991, 61, 871-877.	0.3	50
90	Concentration and separation of actinides from urine using a supported bifunctional organophosphorus extractant. <i>Analytica Chimica Acta</i> , 1990, 238, 263-271.	2.6	199

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91	Focusing counterparts of electrical field flow fractionation and capillary zone electrophoresis. <i>Journal of Chromatography A</i> , 1989, 461, 95-101.	1.8	22
92	A Short and Convenient Synthesis of 5-Alkyl Substituted 8-Hydroxyquinolines. <i>Synthetic Communications</i> , 1989, 19, 2273-2282.	1.1	4
93	Fiber-optic probe for measurement of interfacial area in vigorously stirred solvent extraction systems. <i>Analytical Chemistry</i> , 1987, 59, 2444-2446.	3.2	1
94	Adsorption of neutral metal chelates at liquid-liquid interfaces. <i>Langmuir</i> , 1987, 3, 467-470.	1.6	1
95	The determination of calcium in dietary supplement tablets by ion exchange: A freshman laboratory experiment. <i>Journal of Chemical Education</i> , 1986, 63, 177.	1.1	3
96	Determination of Chloride by Molecular Absorption Spectrophotometry in the Gas Phase Following Oxidation. <i>Analytical Letters</i> , 1985, 18, 985-994.	1.0	2
97	Determination of lead in plant ash by x-ray fluorescence spectrometry. <i>Analytical Chemistry</i> , 1983, 55, 812-813.	3.2	1
98	Determination of ammonium, nitrate, and urea nitrogen in fertilizer by gas-phase molecular absorption spectrometry. <i>Analytical Chemistry</i> , 1983, 55, 535-539.	3.2	22