

Masahiko Matsumiya

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Low viscous and highly conductive phosphonium ionic liquids based on bis(fluorosulfonyl)amide anion as potential electrolytes. <i>Electrochemistry Communications</i> , 2011, 13, 178-181.	4.7	101
2	Extraction of rare earth ions by tri-n-butylphosphate/phosphonium ionic liquids and the feasibility of recovery by direct electrodeposition. <i>Separation and Purification Technology</i> , 2014, 130, 91-101.	7.9	88
3	Attempts to the electrodeposition of Nd from ionic liquids at elevated temperatures. <i>Electrochimica Acta</i> , 2012, 66, 313-319.	5.2	78
4	Electrochemical analysis of diffusion behavior and nucleation mechanism for Dy(II) and Dy(III) in phosphonium-based ionic liquids. <i>Electrochimica Acta</i> , 2013, 113, 269-279.	5.2	52
5	Recovery of indium based on the combined methods of ionic liquid extraction and electrodeposition. <i>Separation and Purification Technology</i> , 2018, 201, 25-29.	7.9	40
6	Physical and electrochemical properties of phosphonium ionic liquids derived from trimethylphosphine. <i>Electrochemistry Communications</i> , 2014, 39, 30-33.	4.7	39
7	Extraction of Pr(III), Nd(III), and Dy(III) from HTFSA Aqueous Solution by TODGA/Phosphonium-Based Ionic Liquids. <i>Solvent Extraction and Ion Exchange</i> , 2016, 34, 172-187.	2.0	33
8	Recovery of ruthenium by solvent extraction and direct electrodeposition using ionic liquid solution. <i>Hydrometallurgy</i> , 2018, 181, 164-168.	4.3	27
9	Recovery of platinum by solvent extraction and direct electrodeposition using ionic liquid. <i>Separation and Purification Technology</i> , 2019, 214, 162-167.	7.9	25
10	Removal of Iron and Boron by Solvent Extraction with Ionic Liquids and Recovery of Neodymium Metal by Direct Electrodeposition. <i>Solvent Extraction and Ion Exchange</i> , 2016, 34, 522-534.	2.0	21
11	Development of energy-saving recycling process for rare earth metals from voice coil motor by wet separation and electrodeposition using metallic-TFSA melts. <i>Hydrometallurgy</i> , 2014, 144-145, 186-194.	4.3	18
12	Separation of palladium by solvent extraction with methylamino-bis-N,N-dioctylacetamide and direct electrodeposition from loaded organic phase. <i>Separation and Purification Technology</i> , 2020, 234, 115841.	7.9	18
13	Solvation structure of iron group metal ion in TFSA-based ionic liquids investigated by Raman spectroscopy and DFT calculations. <i>Journal of Molecular Structure</i> , 2013, 1048, 59-63.	3.6	17
14	Purification of rare earth bis(trifluoromethyl-sulfonyl)amide salts by hydrometallurgy and electrodeposition of neodymium metal using potassium bis(trifluoromethyl-sulfonyl)amide melts. <i>Separation and Purification Technology</i> , 2016, 170, 417-426.	7.9	16
15	Physicochemical Properties of Trialkylphosphonium-Based Protic Ionic Liquids. <i>Electrochemistry</i> , 2012, 80, 904-906.	1.4	14
16	Separation of tungsten and cobalt from WC-Co hard metal wastes using ion-exchange and solvent extraction with ionic liquid. <i>Minerals Engineering</i> , 2018, 128, 224-229.	4.3	13
17	Preparation of polymer electrolytes using ionic liquids and evaluation of physicochemical properties. <i>Journal of Molecular Liquids</i> , 2019, 274, 204-208.	4.9	12
18	Investigation into applicability of EQCM methods at elevated temperature for ionic liquids. <i>Electrochimica Acta</i> , 2016, 194, 304-309.	5.2	10

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19	Analysis of coordination states for Dy(II) and Dy(III) complexes in ionic liquids by Raman spectroscopy and DFT calculation. <i>Journal of Molecular Liquids</i> , 2016, 215, 308-315.	4.9	10
20	Solvation structure and thermodynamics for Pr(III), Nd(III) and Dy(III) complexes in ionic liquids evaluated by Raman spectroscopy and DFT calculation. <i>Journal of Molecular Structure</i> , 2016, 1125, 186-192.	3.6	9
21	Investigation into Coordination States of Diglycolamide and Dioxaoctanediamide Complexes with Lanthanide Elements Using Spectroscopic Methods. <i>Solvent Extraction and Ion Exchange</i> , 2017, 35, 233-250.	2.0	9
22	Simultaneous separation of Am and Cm from Nd and Sm by multi-step extraction using the TODGA-DTPA-BA-HNO ₃ system. <i>Radiochimica Acta</i> , 2020, 108, 689-699.	1.2	9
23	Extraction and Separation between Light and Heavy Lanthanides by β -Tetraoctyl-diglycolamide from Organic Acid. <i>Chemistry Letters</i> , 2020, 49, 1216-1219.	1.3	9
24	Evaluation of the Extraction Properties and Stability of Extracted Rare Earth Complexes in Ionic Liquid Extraction System Using β -Diketone. <i>Solvent Extraction and Ion Exchange</i> , 2016, 34, 454-468.	2.0	8
25	Recovery of Iridium by Solvent Extraction and Direct Electrodeposition Using Phosphonium-Based Ionic Liquids. <i>Journal of the Electrochemical Society</i> , 2021, 168, 056501.	2.9	8
26	Electrochemical analysis of diffusion behavior and nucleation mechanism for neodymium complex in potassium bis(trifluoromethylsulfonyl)amide melts. <i>Electrochemistry Communications</i> , 2016, 65, 23-26.	4.7	7
27	Basic Research on Batchwise Multi-stage Extractions Using TODGA for Dy/Nd Separation. <i>Analytical Sciences</i> , 2020, 36, 1303-1311.	1.6	7
28	Preliminary Study on Separation of Dy and Nd by Multi-Step Extraction Using TDdDGA. <i>Solvent Extraction Research and Development</i> , 2020, 27, 63-67.	0.4	6
29	Diffusion Coefficient of La(III) and Nd(III) Measured by Chronopotentiometry in Molten LiCl-KCl Eutectic. <i>Electrochemistry</i> , 2005, 73, 570-572.	1.4	5
30	Separation of rare earth elements by synergistic solvent extraction with phosphonium-based ionic liquids using a β -diketone extractant and a neutral ligand. <i>Solvent Extraction and Ion Exchange</i> , 2021, 39, 764-784.	2.0	5
31	Spectroscopic and Electrochemical Analyses for Neodymium Complexes in Potassium Bis(trifluoromethylsulfonyl)amide Melts. <i>Journal of the Electrochemical Society</i> , 2017, 164, H5230-H5235.	2.9	4
32	Solvation structure and thermodynamics for lanthanide complexes in phosphonium-based ionic liquid evaluated by Raman spectroscopy and density functional theory. <i>Journal of Molecular Liquids</i> , 2020, 318, 114008.	4.9	4
33	Density functional modeling of Am ³⁺ /Eu ³⁺ selectivity with diethylenetriaminepentaacetic acid and its bisamide chelates. <i>Journal of Nuclear Science and Technology</i> , 2021, 58, 515-526.	1.3	4
34	Complex formation of light and heavy lanthanides with DGA and DOODA, and its application to mutual separation in DGA-DOODA extraction system. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2022, 331, 1483-1493.	1.5	4
35	Synergistic solvent extraction of lanthanide ions with mixtures of D2EHPA and MIDPA in phosphonium-based ionic liquids. <i>Hydrometallurgy</i> , 2021, 199, 105539.	4.3	3
36	Fundamental Study on Multistage Extraction Using TDdDGA for Separation of Lanthanides Present in Nd Magnets. <i>Jom</i> , 2021, 73, 1037-1043.	1.9	3

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37	Multi-stage extraction and separation of Ln and An using TODGA and DTBA or DTPA accompanying pH adjustment with lactic acid and ethylenediamine. <i>Separation Science and Technology</i> , 2022, 57, 2543-2553.	2.5	3
38	Trichotomic separation of light and heavy lanthanides and Am by batchwise multi-stage extractions using TODGA. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2021, 327, 597-607.	1.5	2
39	Mutual Separation of Ln and an Using TODGA and DTBA with High Organic Acid Concentrations. <i>Solvent Extraction and Ion Exchange</i> , 2022, 40, 620-640.	2.0	2
40	Spectroscopic and Electrochemical Analyses for Dysprosium Complexes In Potassium Bis(trifluoromethylsulfonyl)amide Melts. <i>Journal of the Electrochemical Society</i> , 2021, 168, 056502.	2.9	1
41	Recovery of tungsten compounds from spent tungstophosphate catalyst using leaching, solvent extraction with phosphonium-based ionic liquids and precipitation. <i>Hydrometallurgy</i> , 2022, 208, 105803.	4.3	1
42	Recovery of Palladium by Extraction-electrodeposition Using N, N, Nâ€™, Nâ€™, Nâ€™, Nâ€™-Hexaoctyl-nitrilotriacetamide. <i>Solvent Extraction and Ion Exchange</i> , 0, , 1-14.	2.0	1
43	The effect of substituents of phosphonium-based ionic liquids evaluated by MP2 calculation. <i>Journal of Molecular Liquids</i> , 2019, 274, 455-460.	4.9	0
44	Electrodeposition Behavior of Extracted Platinum Complex in Phosphonium-Based Ionic Liquids Evaluated by Electrochemical Quartz Crystal Microbalance. <i>Journal of the Electrochemical Society</i> , 2021, 168, 076508.	2.9	0