Masahiko Matsumiya

List of Publications by Year
in descending order

44 papers	746 citations	623734 14 h-index	526287 27 g-index
44 all docs	44 docs citations	44 times ranked	565 citing authors

#	Article	IF	Citations
1	Mutual Separation of Ln and an Using TODGA and DTBA with High Organic Acid Concentrations. Solvent Extraction and Ion Exchange, 2022, 40, 620-640.	2.0	2
2	Recovery of tungsten compounds from spent tungstophosphate catalyst using leaching, solvent extraction with phosphonium-based ionic liquids and precipitation. Hydrometallurgy, 2022, 208, 105803.	4.3	1
3	Complex formation of light and heavy lanthanides with DGA and DOODA, and its application to mutual separation in DGAâ€"DOODA extraction system. Journal of Radioanalytical and Nuclear Chemistry, 2022, 331, 1483-1493.	1.5	4
4	Multi-stage extraction and separation of Ln and An using TODGA and DTBA or DTPA accompanying pH adjustment with lactic acid and ethylenediamine. Separation Science and Technology, 2022, 57, 2543-2553.	2.5	3
5	Synergistic solvent extraction of lanthanide ions with mixtures of D2EHPA and MIDPA in phosphonium-based ionic liquids. Hydrometallurgy, 2021, 199, 105539.	4.3	3
6	Density functional modeling of Am³⁺/Eu³⁺ selectivity with diethylenetriaminepentaacetic acid and its bisamide chelates.. Journal of Nuclear Science and Technology, 2021, 58, 515-526.	1.3	4
7	Fundamental Study on Multistage Extraction Using TDdDGA for Separation of Lanthanides Present in Nd Magnets. Jom, 2021, 73, 1037-1043.	1.9	3
8	Separation of rare earth elements by synergistic solvent extraction with phosphonium-based ionic liquids using a Î²-diketone extractant and a neutral ligand. Solvent Extraction and Ion Exchange, 2021, 39, 764-784.	2.0	5
9	Spectroscopic and Electrochemical Analyses for Dysprosium Complexes In Potassium Bis(trifluoromethylsulfonyl)amide Melts. Journal of the Electrochemical Society, 2021, 168, 056502.	2.9	1
10	Recovery of Iridium by Solvent Extraction and Direct Electrodeposition Using Phosphonium-Based Ionic Liquids. Journal of the Electrochemical Society, 2021, 168, 056501.	2.9	8
11	Electrodeposition Behavior of Extracted Platinum Complex in Phosphonium-Based Ionic Liquids Evaluated by Electrochemical Quartz Crystal Microbalance. Journal of the Electrochemical Society, 2021, 168, 076508.	2.9	0
12	Trichotomic separation of light and heavy lanthanides and Am by batchwise multi-stage extractions using TODGA. Journal of Radioanalytical and Nuclear Chemistry, 2021, 327, 597-607.	1.5	2
13	Separation of palladium by solvent extraction with methylamino-bis-N,N-dioctylacetamide and direct electrodeposition from loaded organic phase. Separation and Purification Technology, 2020, 234, 115841.	7.9	18
14	Solvation structure and thermodynamics for lanthanide complexes in phosphonium-based ionic liquid evaluated by Raman spectroscopy and density functional theory. Journal of Molecular Liquids, 2020, 318, 114008.	4.9	4
15	Simultaneous separation of Am and Cm from Nd and Sm by multi-step extraction using the TODGA-DTPA-BA-HNO₃ system. Radiochimica Acta, 2020, 108, 689-699.	1.2	9
16	Basic Research on Batchwise Multi-stage Extractions Using TODGA for Dy/Nd Separation. Analytical Sciences, 2020, 36, 1303-1311.	1.6	7
17	Extraction and Separation between Light and Heavy Lanthanides by N,N,Nâ€²,Nâ€²-Tetraoctyl-diglycolamide from Organic Acid. Chemistry Letters, 2020, 49, 1216-1219.	1.3	9
18	Preliminary Study on Separation of Dy and Nd by Multi-Step Extraction Using TDdDGA. Solvent Extraction Research and Development, 2020, 27, 63-67.	0.4	6

#	Article	IF	Citations
19	Recovery of platinum by solvent extraction and direct electrodeposition using ionic liquid. Separation and Purification Technology, 2019, 214, 162-167.	7.9	25
20	Preparation of polymer electrolytes using ionic liquids and evaluation of physicochemical properties. Journal of Molecular Liquids, 2019, 274, 204-208.	4.9	12
21	The effect of substituents of phosphonium-based ionic liquids evaluated by MP2 calculation. Journal of Molecular Liquids, 2019, 274, 455-460.	4.9	0
22	Recovery of indium based on the combined methods of ionic liquid extraction and electrodeposition. Separation and Purification Technology, 2018, 201, 25-29.	7.9	40
23	Recovery of ruthenium by solvent extraction and direct electrodeposition using ionic liquid solution. Hydrometallurgy, 2018, 181, 164-168.	4.3	27
24	Separation of tungsten and cobalt from WC-Co hard metal wastes using ion-exchange and solvent extraction with ionic liquid. Minerals Engineering, 2018, 128, 224-229.	4.3	13
25	Spectroscopic and Electrochemical Analyses for Neodymium Complexes in Potassium Bis(trifluoromethylsulfonyl)amide Melts. Journal of the Electrochemical Society, 2017, 164, H5230-H5235.	2.9	4
26	Investigation into Coordination States of Diglycolamide and Dioxaoctanediamide Complexes with Lanthanide Elements Using Spectroscopic Methods. Solvent Extraction and Ion Exchange, 2017, 35, 233-250.	2.0	9
27	Extraction of Pr(III), Nd(III), and Dy(III) from HTFSA Aqueous Solution by TODGA/Phosphonium-Based Ionic Liquids. Solvent Extraction and Ion Exchange, 2016, 34, 172-187.	2.0	33
28	Electrochemical analysis of diffusion behavior and nucleation mechanism for neodymium complex in potassium bis(trifluoromethylsulfonyl)amide melts. Electrochemistry Communications, 2016, 65, 23-26.	4.7	7
29	Purification of rare earth bis(trifluoromethyl-sulfonyl)amide salts by hydrometallurgy and electrodeposition of neodymium metal using potassium bis(trifluoromethyl-sulfonyl)amide melts. Separation and Purification Technology, 2016, 170, 417-426.	7.9	16
30	Removal of Iron and Boron by Solvent Extraction with Ionic Liquids and Recovery of Neodymium Metal by Direct Electrodeposition. Solvent Extraction and Ion Exchange, 2016, 34, 522-534.	2.0	21
31	Evaluation of the Extraction Properties and Stability of Extracted Rare Earth Complexes in Ionic Liquid Extraction System Using I²-Diketone. Solvent Extraction and Ion Exchange, 2016, 34, 454-468.	2.0	8
32	Solvation structure and thermodynamics for Pr(III), Nd(III) and Dy(III) complexes in ionic liquids evaluated by Raman spectroscopy and DFT calculation. Journal of Molecular Structure, 2016, 1125, 186-192.	3.6	9
33	Investigation into applicability of EQCM methods at elevated temperature for ionic liquids. Electrochimica Acta, 2016, 194, 304-309.	5.2	10
34	Analysis of coordination states for Dy(II) and Dy(III) complexes in ionic liquids by Raman spectroscopy and DFT calculation. Journal of Molecular Liquids, 2016, 215, 308-315.	4.9	10
35	Development of energy-saving recycling process for rare earth metals from voice coil motor by wet separation and electrodeposition using metallic-TFSA melts. Hydrometallurgy, 2014, 144-145, 186-194.	4.3	18
36	Extraction of rare earth ions by tri-n-butylphosphate/phosphonium ionic liquids and the feasibility of recovery by direct electrodeposition. Separation and Purification Technology, 2014, 130, 91-101.	7.9	88

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37	Physical and electrochemical properties of phosphonium ionic liquids derived from trimethylphosphine. Electrochemistry Communications, 2014, 39, 30-33.	4.7	39
38	Solvation structure of iron group metal ion in TFSA-based ionic liquids investigated by Raman spectroscopy and DFT calculations. Journal of Molecular Structure, 2013, 1048, 59-63.	3.6	17
39	Electrochemical analysis of diffusion behavior and nucleation mechanism for Dy(II) and Dy(III) in phosphonium-based ionic liquids. Electrochimica Acta, 2013, 113, 269-279.	5.2	52
40	Physicochemical Properties of Trialkylphosphonium-Based Protic Ionic Liquids. Electrochemistry, 2012, 80, 904-906.	1.4	14
41	Attempts to the electrodeposition of Nd from ionic liquids at elevated temperatures. Electrochimica Acta, 2012, 66, 313-319.	5.2	78
42	Low viscous and highly conductive phosphonium ionic liquids based on bis(fluorosulfonyl)amide anion as potential electrolytes. Electrochemistry Communications, 2011, 13, 178-181.	4.7	101
43	Diffusion Coefficient of La(III) and Nd(III) Measured by Chronopotentiometry in Molten LiCl-KCl Eutectic. Electrochemistry, 2005, 73, 570-572.	1.4	5
44	Recovery of Palladium by Extraction-electrodeposition Using N, N, Nâ€™, Nâ€™, Nâ€, Nâ€• Hexaoctyl-nitrilotriacetamide. Solvent Extraction and Ion Exchange, 0, , 1-14.	2.0	1