

Vladimir A Volkovich

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9306531/publications.pdf>

Version: 2024-02-01

220
papers

1,610
citations

394421

19
h-index

414414

32
g-index

231
all docs

231
docs citations

231
times ranked

878
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrode processes and electrochemical formation of Dy-Ga and Dy-Cd alloys in molten LiCl-KCl-CsCl eutectic. Journal of Electroanalytical Chemistry, 2022, 906, 116012.	3.8	4
2	Speciation of dysprosium in molten LiCl-KCl-CsCl eutectic: An electrochemistry and spectroscopy study. Journal of Electroanalytical Chemistry, 2022, 904, 115955.	3.8	9
3	Application of Low Melting Metals for Separation of Uranium and Zirconium in a "Fused Chloride" Liquid Alloy System. Metals, 2021, 11, 550.	2.3	4
4	Reaction of Oxygen with Solutions of Neodymium Chloride in Alkali Chloride Melts: A Spectroscopy and Kinetics Study. Journal of the Electrochemical Society, 2021, 168, 046513.	2.9	4
5	Corrosion of Metals and Nickel-Based Alloys in Liquid Bismuth-Lithium Alloy. Metals, 2021, 11, 791.	2.3	2
6	Emergent Intelligence via Self-Organization in a Group of Robotic Devices. Mathematics, 2021, 9, 1314.	2.2	4
7	Reaction of Oxygen with Uranium Trichloride in Molten Alkali Metal Chlorides. Russian Metallurgy (Metally), 2021, 2021, 1040-1043.	0.5	1
8	Formation of Barium and Strontium Phosphates in Chloride Melts. Russian Metallurgy (Metally), 2021, 2021, 1023-1028.	0.5	1
9	Thermodynamics and the Separation Factor of Dy/U Couple on Ga and Ga-Al Electrodes in Fused LiCl-KCl Eutectic. ECS Meeting Abstracts, 2021, MA2021-02, 761-761.	0.0	0
10	Research and Development of the pyrochemical processing for the mixed nitride uranium-plutonium fuel. Journal of Physics: Conference Series, 2020, 1475, 012027.	0.4	5
11	Separation of uranium and zirconium in a "chloride melt" Ga-Zn eutectic alloy-system. AIP Conference Proceedings, 2020, , .	0.4	3
12	Separation of Uranium and Zirconium in Alkali Chloride Melts Using Liquid Metal Cathodes. ECS Transactions, 2020, 98, 355-364.	0.5	2
13	Corrosion of Metallic Materials in the Molten FLiNaK. ECS Transactions, 2020, 98, 453-462.	0.5	2
14	Electrochemical Behavior of Dysprosium in Fused LiCl-KCl Eutectic at Solid Inert Mo and Liquid Active Ga Electrodes. Journal of the Electrochemical Society, 2020, 167, 112510.	2.9	11
15	Electronic absorption spectra of palladium(II) ions in molten eutectic mixture of lithium, potassium and cesium chlorides. AIP Conference Proceedings, 2020, , .	0.4	1
16	Electrochemical properties of gallium in molten alkali metal chlorides. AIP Conference Proceedings, 2020, , .	0.4	4
17	The effect of temperature on IR-spectra of rubidium and cesium uranates. AIP Conference Proceedings, 2020, , .	0.4	0
18	Electrochemistry of iron, nickel and chromium in LiF-NaF-KF (FLiNaK) eutectic melt: A cyclic voltammetry study. AIP Conference Proceedings, 2020, , .	0.4	2

#	ARTICLE	IF	CITATIONS
19	Preface: The VII International Young Researchers™ Conference “Physics, Technology, Innovations (PTI-2020). AIP Conference Proceedings, 2020, , .	0.4	0
20	Neodymium oxide solubility in molten salts based on alkali and alkali-earth halides. AIP Conference Proceedings, 2020, , .	0.4	0
21	Strontium phosphates precipitation from alkali chloride based melts. AIP Conference Proceedings, 2020, , .	0.4	1
22	A spectroelectrochemical study of lanthanide (Yb, Sm, Eu) dichlorides in alkali metal chloride melts. AIP Conference Proceedings, 2020, , .	0.4	1
23	Corrosion of Ceramic and Carbon-Based Materials in FLiNaK. ECS Transactions, 2020, 98, 373-381.	0.5	1
24	Application of Phosphate Precipitation for Removing Strontium and Barium from Alkali Chloride Based Melts. ECS Transactions, 2020, 98, 283-294.	0.5	0
25	Uranium Electrorefining in 3LiCl-2KCl Based Melts. ECS Transactions, 2020, 98, 443-451.	0.5	2
26	Solubility of Rare Earth Oxides in Fused Alkali and Alkaline Earth Halides. ECS Transactions, 2020, 98, 415-424.	0.5	1
27	A Method of Producing Al-REE Master Alloys Using Exchange Reduction Reaction. ECS Transactions, 2020, 98, 271-281.	0.5	0
28	Kinetics of Reaction of Oxygen with Uranium(IV) Chloride in Alkali Chloride Melts. ECS Transactions, 2020, 98, 365-372.	0.5	2
29	Solubility of Rare Earth Oxides in Fused Alkali and Alkaline Earth Halides. ECS Meeting Abstracts, 2020, MA2020-02, 2983-2983.	0.0	0
30	Separation of Uranium and Zirconium in Alkali Chloride Melts Using Liquid Metal Cathodes. ECS Meeting Abstracts, 2020, MA2020-02, 2941-2941.	0.0	0
31	Electrochemical Study of Dysprosium in Fused LiCl-KCl Eutectic for Production of High Purity Metal. ECS Meeting Abstracts, 2020, MA2020-02, 2982-2982.	0.0	0
32	Uranium Electrorefining in 3LiCl-2KCl Based Melts. ECS Meeting Abstracts, 2020, MA2020-02, 2972-2972.	0.0	0
33	Corrosion of Ceramic and Carbon-Based Materials in FLiNaK. ECS Meeting Abstracts, 2020, MA2020-02, 2929-2929.	0.0	0
34	Application of Phosphate Precipitation for Removing Strontium and Barium from Alkali Chloride Based Melts. ECS Meeting Abstracts, 2020, MA2020-02, 2943-2943.	0.0	0
35	Corrosion of Metallic Materials in the Molten FLiNaK. ECS Meeting Abstracts, 2020, MA2020-02, 2973-2973.	0.0	0
36	Kinetics of Reaction of Oxygen with Uranium(IV) Chloride in Alkali Chloride Melts. ECS Meeting Abstracts, 2020, MA2020-02, 2942-2942.	0.0	0

#	ARTICLE	IF	CITATIONS
37	Formation of Rare-Earth Element Phosphates in the Melts Based on the Equimolar Mixture of Sodium and Potassium Chlorides. Russian Metallurgy (Metally), 2019, 2019, 152-154.	0.5	0
38	Thermodynamics of Rare-Earth Metal Chlorides in the Melts Based on a Eutectic Mixture of Lithium, Potassium, and Cesium Chlorides. Russian Metallurgy (Metally), 2019, 2019, 194-196.	0.5	1
39	Activity of Lanthanum in Zn-Containing Alloys: La-Zn, La-U-Zn, and La-U-Ga-Zn Systems. Russian Metallurgy (Metally), 2019, 2019, 146-148.	0.5	1
40	Separation of Uranium and Zirconium: Electrochemical Properties of Zirconium in the 3LiCl-2KCl Melt. Russian Metallurgy (Metally), 2019, 2019, 155-158.	0.5	3
41	Electrochemical Properties of Tungsten in Molten Alkali Metal Chlorides. Russian Metallurgy (Metally), 2019, 2019, 149-151.	0.5	1
42	Synthesis of HfO ₂ from hafnium hydroxide hydrate. Journal of Alloys and Compounds, 2019, 790, 405-412.	5.5	3
43	Activity coefficients of lanthanum in gallium and gallium-aluminum based alloys. Journal of Alloys and Compounds, 2019, 790, 809-813.	5.5	9
44	Thermodynamics of rare earth elements and uranium in gallium based quaternary metallic alloys. Journal of Alloys and Compounds, 2019, 787, 367-378.	5.5	15
45	Neodymium solubility in gallium-zinc eutectic alloy. AIP Conference Proceedings, 2019, , .	0.4	1
46	Phosphate precipitation from the melts containing mixtures of rare earth elements: Particle size distribution analysis. AIP Conference Proceedings, 2019, , .	0.4	0
47	Processes involving zirconium on solid and liquid cathodes in LiCl-KCl eutectic based melts. AIP Conference Proceedings, 2019, , .	0.4	2
48	Stationary corrosion potential of technetium in LiCl-KCl-CsCl eutectic melt. AIP Conference Proceedings, 2019, , .	0.4	1
49	Corrosion of construction materials in KCl-LiCl-UCl ₃ melts containing metallic zinc. AIP Conference Proceedings, 2019, , .	0.4	0
50	Study of ruthenium behavior in alkali chloride melts using electronic absorption spectroscopy. AIP Conference Proceedings, 2019, , .	0.4	1
51	Reaction of tungsten dioxide with hydrogen chloride in alkali chloride melts: An electronic absorption spectroscopy study. AIP Conference Proceedings, 2019, , .	0.4	0
52	High temperature IR-spectroscopy of lithium, sodium and potassium uranates. AIP Conference Proceedings, 2019, , .	0.4	1
53	Preparation and analysis of Pr-Ga-Al alloys. AIP Conference Proceedings, 2019, , .	0.4	0
54	Reaction of lithium oxide with LiCl-UCl ₄ and LiCl-KCl-UCl ₄ melts. AIP Conference Proceedings, 2019, , .	0.4	1

#	ARTICLE	IF	CITATIONS
55	Electronic absorption spectra of rare earth (Sm, Eu, Yb) dichlorides in alkali chloride melts. AIP Conference Proceedings, 2019, , .	0.4	4
56	Reaction of uranium(IV) chloride with oxygen in alkali chloride melts: An electronic absorption spectroscopy study. AIP Conference Proceedings, 2019, , .	0.4	1
57	Uranium reduction from chloride melts on solid and liquid metal cathodes. AIP Conference Proceedings, 2019, , .	0.4	3
58	Red-ox processes involving niobium in alkali chloride melts. AIP Conference Proceedings, 2019, , .	0.4	0
59	Thermodynamic properties of ternary Me-Ga-In (Me = La, U) alloys in a fused Ga-In/LiCl-KCl system. Journal of Chemical Thermodynamics, 2019, 130, 228-234.	2.0	18
60	Combined Approach for the Structural Characterization of Alkali Fluoroscandates: Solid-State NMR, Powder X-ray Diffraction, and Density Functional Theory Calculations. Inorganic Chemistry, 2018, 57, 1184-1195.	4.0	14
61	Solubility of lanthanum and uranium in Ga-In and Ga-Al eutectic based alloys. AIP Conference Proceedings, 2018, , .	0.4	5
62	Corrosion behavior of EP-823 type steel in uranium containing chloride melts. AIP Conference Proceedings, 2018, , .	0.4	0
63	Fabrication of rare-earth metals by metallothermic reduction: Thermodynamic modeling and practical realization. AIP Conference Proceedings, 2018, , .	0.4	4
64	Diffusion coefficients of REE (II) and (III) ions (REE = Sm, Eu, Yb) in molten eutectic mixture of sodium, potassium and cesium chlorides. AIP Conference Proceedings, 2018, , .	0.4	0
65	Electronic absorption spectra of tungsten in alkali chloride based melts. AIP Conference Proceedings, 2018, , .	0.4	0
66	Electronic absorption spectra of erbium(III) ions in alkali chloride melts. AIP Conference Proceedings, 2018, , .	0.4	0
67	Thermodynamic characteristics of praseodymium in the gallium-aluminum eutectic melt. Russian Chemical Bulletin, 2018, 67, 1601-1607.	1.5	3
68	Reduction of uranium(VI) species in alkali chloride melts: An electronic absorption spectroscopy study of formation of uranium(V) ions. AIP Conference Proceedings, 2018, , .	0.4	1
69	Vanadium Electrowinning in NaCl-KCl-VCl ₂ Melts. ECS Transactions, 2018, 86, 37-43.	0.5	1
70	Interaction of Neodymium Containing Chloride Melts with Oxygen Species. ECS Transactions, 2018, 86, 341-350.	0.5	5
71	An Electrochemical Study of Divalent Ytterbium Species in NaCl-KCl and NaCl-KCl-CsCl Based Melts. ECS Transactions, 2018, 86, 359-365.	0.5	0
72	Ruthenium behaviour in alkali chloride melts. AIP Conference Proceedings, 2018, , .	0.4	0

#	ARTICLE	IF	CITATIONS
73	Reaction of uranium (III) and (VI) chlorides with oxide ions in 3LiClâ€“2KCl eutectic based melts. AIP Conference Proceedings, 2018, , .	0.4	3
74	Uranium deposition potentials on solid and liquid cathodes in LiClâ€“KCl eutectic melt. AIP Conference Proceedings, 2018, , .	0.4	6
75	Kinetics of the Reduction of Rare Earth Metals in LiClâ€“KClâ€“CsCl Eutectic Melt. ECS Transactions, 2018, 86, 351-358.	0.5	1
76	Solubility of praseodymium in the gallium-aluminum eutectic alloy. AIP Conference Proceedings, 2018, , .	0.4	1
77	Electrochemical behavior of zirconium in LiClâ€“KCl eutectic melt. AIP Conference Proceedings, 2018, , .	0.4	2
78	Formation of Rare Earth Phosphates in the Melts Based on NaClâ€“KCl Equimolar Mixture. ECS Transactions, 2018, 86, 329-340.	0.5	3
79	Structure of rare earth phosphates formed in the melts based on the equimolar mixture of sodium and potassium chlorides. AIP Conference Proceedings, 2018, , .	0.4	0
80	Electronic Absorption Spectra of Uranium(V) Species in Fused Alkali Chlorides. ECS Transactions, 2018, 86, 367-376.	0.5	0
81	Preface: Physics, Technologies and Innovation (PTI-2018). AIP Conference Proceedings, 2018, , .	0.4	0
82	Electrochemical Properties of Uranium and Zirconium on Solid and Liquid Electrodes in 3LiClâ€“2KCl Based Melts. ECS Transactions, 2018, 86, 55-67.	0.5	4
83	Corrosive Resistance of Nickel Hastelloy G-35 Superalloy in Various Aggressive Media. ECS Transactions, 2018, 86, 155-162.	0.5	4
84	Electrochemical Properties of Uranium and Zirconium on Solid and Liquid Electrodes in 3LiClâ€“2KCl Based Melts. ECS Meeting Abstracts, 2018, , .	0.0	0
85	Electronic Absorption Spectra of Uranium(V) Species in Fused Alkali Chlorides. ECS Meeting Abstracts, 2018, , .	0.0	0
86	New Industrial Alloy for Molten Salt Application: Design and Properties. ECS Meeting Abstracts, 2018, , .	0.0	0
87	Formation of Rare Earth Phosphates in the Melts Based on NaClâ€“KCl Equimolar Mixture. ECS Meeting Abstracts, 2018, , .	0.0	0
88	Corrosion Resistance of Hastelloy G-35 Nickel-Based Superalloy in Various Aggressive Media. ECS Meeting Abstracts, 2018, , .	0.0	0
89	Interaction of Neodymium Containing Chloride Melts with Oxygen Species. ECS Meeting Abstracts, 2018, , .	0.0	0
90	Vanadium Electrorefining in NaClâ€“KClâ€“VCl ₂ Melts. ECS Meeting Abstracts, 2018, , .	0.0	0

#	ARTICLE	IF	CITATIONS
91	Kinetics of the Reduction of Rare Earth Metals in LiCl–KCl–CsCl Eutectic Melt. ECS Meeting Abstracts, 2018, , .	0.0	0
92	An Electrochemical Study of Divalent Ytterbium Species in NaCl–KCl and NaCl–KCl–CsCl Based Melts. ECS Meeting Abstracts, 2018, , .	0.0	0
93	Lanthanum solubility in gallium-aluminum liquid alloys. AIP Conference Proceedings, 2017, , .	0.4	5
94	The interaction of scandium fluoride with alkali metal fluorides. AIP Conference Proceedings, 2017, , .	0.4	0
95	Reduction of ytterbium(III) species in alkali chloride based melts. AIP Conference Proceedings, 2017, , .	0.4	0
96	Redox properties of samarium, europium and ytterbium in molten eutectic mixture of sodium, potassium and cesium chlorides. AIP Conference Proceedings, 2017, , .	0.4	1
97	Thermodynamic properties of rare earth elements in La–RE–Ga–In alloys (RE = Nd, Y). AIP Conference Proceedings, 2017, , .	0.4	5
98	Electrode and Redox Potentials of Molybdenum and Stability of Molybdenum Chloro-Species in Alkali Chloride Melts. Journal of the Electrochemical Society, 2017, 164, H5336-H5344.	2.9	10
99	Thermodynamics of La and U and the separation factor of U/La in fused Me(Ga-40wt.% In)/3LiCl-2KCl system. Journal of Nuclear Materials, 2017, 495, 285-290.	2.7	17
100	Corrosion of Nickel-Based Superalloys in Molten Chloroaluminates. ECS Transactions, 2017, 77, 753-766.	0.5	9
101	Corrosion of Austenitic Steels and Their Components in Uranium-Containing Chloride Melts. ECS Transactions, 2017, 77, 847-855.	0.5	6
102	Formation of rare earth phosphates in NaCl–KCl based melts. AIP Conference Proceedings, 2017, , .	0.4	0
103	Electronic absorption spectra of neodymium(III) ions in alkali chloride melts. AIP Conference Proceedings, 2017, , .	0.4	4
104	A novel method of aluminum–gadolinium master alloy production. AIP Conference Proceedings, 2017, , .	0.4	1
105	The effect of Al concentration on thermodynamic properties of Nd and U in Ga–Al-based alloys and the separation factor of Nd/U couple in a molten salt-liquid metal system. Journal of Radioanalytical and Nuclear Chemistry, 2017, 311, 687-693.	1.5	18
106	Potentiometric study of tungsten-containing chloride melts. AIP Conference Proceedings, 2017, , .	0.4	0
107	Redox properties of molybdenum in NaCl–2CsCl eutectic based melts. AIP Conference Proceedings, 2017, , .	0.4	0
108	Vanadium Speciation in Fused Alkali Chlorides. Journal of the Electrochemical Society, 2017, 164, H5139-H5144.	2.9	3

#	ARTICLE	IF	CITATIONS
109	Corrosion resistance of nickel-based alloys in salt and metal melts containing REE. AIP Conference Proceedings, 2017, , .	0.4	3
110	Redox potentials of uranium in molten eutectic mixture of lithium, potassium, and cesium chlorides. Russian Metallurgy (Metally), 2016, 2016, 729-732.	0.5	2
111	Precipitation of Rare Earth Phosphates from Molten Salts: Particle Size Distribution Analysis. ECS Transactions, 2016, 75, 313-321.	0.5	8
112	Selective ion exchange recovery of rare earth elements from uranium mining solutions. AIP Conference Proceedings, 2016, , .	0.4	17
113	Thermodynamic properties of lanthanum in gallium-zinc alloys. AIP Conference Proceedings, 2016, , .	0.4	8
114	Thermodynamic properties of gadolinium in Ga-Sn and Ga-Zn eutectic based alloys. AIP Conference Proceedings, 2016, , .	0.4	4
115	Separation of Lanthanides and Actinides in a Chloride Melt - Liquid Metal System: The Effect of Phase Composition. ECS Transactions, 2016, 75, 397-408.	0.5	14
116	A Spectroscopic and Electrochemical Study of Molybdenum(IV) and Tungsten(IV) Species in Alkali Chloride Melts. ECS Transactions, 2016, 75, 417-430.	0.5	3
117	Currentless Deposition of Niobium-Based Protective Coatings for Application in Molten Salts. ECS Transactions, 2016, 75, 255-263.	0.5	0
118	Electrochemical and Thermodynamic Properties of Lanthanum in a Chloride Melt - Liquid Metal System. ECS Transactions, 2016, 75, 265-274.	0.5	11
119	The Effect of the Second Coordination Sphere on Vanadium Speciation in Molten Chlorides. ECS Transactions, 2016, 75, 245-253.	0.5	0
120	High-temperature corrosion of metals in the salt and metallic melts containing rare earths. AIP Conference Proceedings, 2016, , .	0.4	3
121	Electrode potentials of tungsten in fused alkali chlorides. AIP Conference Proceedings, 2016, , .	0.4	5
122	Electronic absorption spectra of rare earth (III) species in NaCl-CsCl eutectic based melts. AIP Conference Proceedings, 2016, , .	0.4	16
123	Diffusion coefficients of the uranium(III) and (IV) ions in the LiCl-KCl-CsCl eutectic melt. Russian Metallurgy (Metally), 2016, 2016, 722-728.	0.5	4
124	Thermodynamics of uranium in (Ga + Sn) eutectic alloy. Journal of Chemical Thermodynamics, 2016, 93, 95-100.	2.0	11
125	Electrode potentials of uranium in the LiCl-KCl-CsCl eutectic melt. Russian Metallurgy (Metally), 2015, 2015, 650-653.	0.5	3
126	Thermodynamics of Nd-Ga-Al and U-Ga-Al alloys and uranium/neodymium separation factor in the molten Ga-Al/3LiCl-2KCl system. Radiochemistry, 2015, 57, 591-595.	0.7	3

#	ARTICLE	IF	CITATIONS
127	Thermodynamic properties of uranium in liquid gallium, indium and their alloys. Journal of Nuclear Materials, 2015, 464, 263-269.	2.7	22
128	Uranium and neodymium partitioning in alkali chloride melts using low-melting gallium-based alloys. Nukleonika, 2015, 60, 915-920.	0.8	6
129	Thermodynamics of Nuclear Waste Reprocessing: Separation of Lanthanides Using Liquid Metals and Alloys. Journal of Nuclear Engineering and Radiation Science, 2015, 1, 031003.	0.4	3
130	Electrochemical properties of molybdenum in individual molten alkali metal chlorides and their mixtures. Russian Metallurgy (Metally), 2015, 2015, 141-146.	0.5	0
131	Thermodynamic properties of uranium in gallium-aluminium based alloys. Journal of Nuclear Materials, 2015, 465, 153-160.	2.7	28
132	An electrochemical study of uranium behaviour in LiCl-KCl-CsCl eutectic melt. Journal of Nuclear Materials, 2015, 467, 956-963.	2.7	14
133	Thermodynamic properties of La-Ga-Al and U-Ga-Al alloys and the separation factor of U/La couple in the molten salt-liquid metal system. Journal of Nuclear Materials, 2015, 466, 373-378.	2.7	28
134	Separation of Uranium and Lanthanides in a Fused Salt - Liquid Gallium Based Alloy System. ECS Transactions, 2014, 64, 369-375.	0.5	8
135	An Electrochemical Study of Uranium (III) and (IV) Species in Fused Alkali Chlorides. ECS Transactions, 2014, 64, 357-367.	0.5	4
136	Solubility of Transition Metal Halides in Chloroaluminate Melts. ECS Transactions, 2014, 64, 211-216.	0.5	1
137	Thermodynamic properties of alloys of praseodymium with the gallium-indium eutectic melt. Russian Journal of Non-Ferrous Metals, 2014, 55, 550-553.	0.6	4
138	Corrosion of Corrosion-Resistant and High-Temperature Nickel-Based Alloys in Chloroaluminate Melts. ECS Transactions, 2014, 64, 217-226.	0.5	10
139	An Electrochemical and Spectroelectrochemical Study of Ln(II) (Ln = Sm, Eu, Yb) Species in NaCl-2CsCl Melt. ECS Transactions, 2014, 64, 617-634.	0.5	8
140	Indirect Methods of Determination of K:Al Mole Ratio in Molten Chloroaluminates. ECS Transactions, 2014, 64, 461-472.	0.5	3
141	Niobium Speciation in NaCl-KCl Based Melts: An Electrochemical and Spectroelectrochemical Study. ECS Transactions, 2014, 64, 389-404.	0.5	3
142	Thermodynamic properties of metallic Ga-In alloys saturated with lanthanum. Russian Metallurgy (Metally), 2014, 2014, 593-598.	0.5	5
143	Molybdenum(V) Species in Alkali Chloride Melts: An Electronic Absorption Spectroscopy Study. ECS Transactions, 2014, 64, 189-195.	0.5	2
144	Electrochemical Properties of Molybdenum in Alkali Chloride Melts. ECS Transactions, 2014, 64, 377-387.	0.5	3

#	ARTICLE	IF	CITATIONS
145	Lanthanum Activity, Activity Coefficients and Solubility in Gallium-Indium Liquid Alloys. ECS Transactions, 2014, 64, 227-234.	0.5	6
146	Corrosion behavior of austenitic steels and their components in niobium-containing chloride melts. Russian Metallurgy (Metally), 2014, 2014, 159-165.	0.5	2
147	Study of uranium solubility in gallium-indium eutectic alloy by emf method. Russian Metallurgy (Metally), 2013, 2013, 106-111.	0.5	3
148	Thermodynamic properties of uranium in Ga-In based alloys. Journal of Nuclear Materials, 2013, 438, 94-98.	2.7	22
149	Excessive thermodynamic properties of praseodymium in a gallium-indium alloy. Russian Metallurgy (Metally), 2013, 2013, 607-609.	0.5	1
150	Thermodynamic properties of lanthanum in gallium-indium eutectic based alloys. Journal of Nuclear Materials, 2013, 435, 202-206.	2.7	17
151	Thermodynamics of reaction of praseodymium with gallium-indium eutectic alloy. Journal of Nuclear Materials, 2013, 437, 66-69.	2.7	8
152	Electronic Absorption Spectra of Niobium Species in Halide Melts. ECS Transactions, 2013, 50, 325-338.	0.5	3
153	Activity Coefficients and Solubility of Lanthanum and Praseodymium in Gallium-Indium Eutectic Alloy. ECS Transactions, 2013, 50, 507-515.	0.5	5
154	Precipitation of Rare Earth Phosphates from NaCl-2CsCl Eutectic Based Melts. ECS Transactions, 2013, 50, 517-527.	0.5	7
155	Corrosion of Ferritic and Ferritic-Martensitic Steels in NaCl-KCl-VCl ₂ Melts. ECS Transactions, 2013, 50, 699-709.	0.5	3
156	Corrosion of Austenitic Steels and Their Components in Vanadium-Containing Chloride Melts. ECS Transactions, 2013, 50, 685-698.	0.5	1
157	Corrosion of Nickel-Chromium-Molybdenum Based Alloy in Chloride Melts Containing Transition Metal Ions. ECS Transactions, 2013, 50, 357-366.	0.5	2
158	Uranium Activity and Solubility in Liquid Ga-In Eutectic Alloy: An Electrochemistry Study. ECS Transactions, 2013, 50, 497-505.	0.5	0
159	Stability of complex molybdenum(III) ions in molten alkali metal chlorides. Russian Metallurgy (Metally), 2012, 2012, 114-118.	0.5	3
160	Spectroelectrochemical study of molybdenum containing chloride melts. Russian Metallurgy (Metally), 2010, 2010, 150-153.	0.5	5
161	The application of the spectroelectrochemical method in the studies of molybdenum, tungsten, and uranium in chloride melts. Russian Journal of Electrochemistry, 2010, 46, 640-645.	0.9	2
162	The structures of the active intermediates in Catalyst-Enhanced Molten Salt Oxidation and a new method for the complete destruction of chemical warfare arsenicals. Structural Chemistry, 2010, 21, 291-297.	2.0	20

#	ARTICLE	IF	CITATIONS
163	Electrochemical and Spectroscopic Properties of Technetium in Fused Alkali Metal Chlorides. ECS Transactions, 2010, 33, 381-390.	0.5	3
164	Reaction of Curium(III) Ions with Oxo-Species in Alkali Chloride Melts. ECS Transactions, 2010, 33, 401-408.	0.5	3
165	Corrosion of Stainless Steel in NaCl-KCl Based Melts. ECS Transactions, 2010, 33, 321-327.	0.5	10
166	Electronic Absorption Spectra of Vanadium Species in Halide Melts. ECS Transactions, 2010, 33, 287-296.	0.5	5
167	The Effect of Fission Product Elements on the Behavior of Uranyl Species in Alkali Chloride Melts: a Contribution towards Reprocessing Spent Oxide Fuels. ECS Transactions, 2010, 33, 371-379.	0.5	3
168	On the formation of uranium(V) species in alkali chloride melts. Pure and Applied Chemistry, 2010, 82, 1701-1717.	1.9	14
169	Behavior of Molybdenum Chloro-Species in Alkali Chloride-Based Melts: Implications for Spent Nuclear Fuel Treatments. ECS Transactions, 2010, 33, 391-400.	0.5	8
170	Spectroelectrochemical Study of Stainless Steel Corrosion in NaCl-KCl Melt. ECS Transactions, 2010, 33, 277-285.	0.5	6
171	Processing of Vanadium and Niobium Electrodeposited from Alkali Chloride Melts. ECS Transactions, 2010, 33, 297-302.	0.5	1
172	A Study of Uranium(V) Species in Alkali Chloride Melts. ECS Transactions, 2009, 16, 325-334.	0.5	4
173	Corrosion of Constructive Materials in Niobium-containing Melts. ECS Transactions, 2009, 16, 357-365.	0.5	1
174	Electrochemical and Spectroscopic Properties of Tellurium in Fused Alkali Chlorides. ECS Transactions, 2009, 16, 335-341.	0.5	1
175	Distribution of Impurities during Vanadium Electrorefining and Determination of Optimal Conditions of the Process. ECS Transactions, 2009, 16, 479-487.	0.5	1
176	In Situ Spectroscopy and Spectroelectrochemistry of Uranium in High-Temperature Alkali Chloride Molten Salts. Inorganic Chemistry, 2008, 47, 7474-7482.	4.0	54
177	Speciation of Rhenium in Chloride Melts: Spectroscopic and Electrochemical Study. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2008, 63, 371-376.	1.5	4
178	A New Technology for the Nuclear Industry for the Complete and Continuous Pyrochemical Reprocessing of Spent Nuclear Fuel: Catalyst Enhanced Molten Salt Oxidation. Nuclear Technology, 2008, 163, 382-400.	1.2	18
179	CEMSO (Catalyst Enhanced Molten Salt Oxidation) for Complete and Continuous Pyrochemical Reprocessing of Spent Nuclear Fuel: An Overview of a Viable New Technology for Next Generation Nuclear Reactors. ECS Transactions, 2007, 3, 467-482.	0.5	6
180	Spectroelectrochemical Study of Uranium and Neptunium in LiCl-KCl Eutectic Melt. ECS Transactions, 2007, 3, 503-511.	0.5	5

#	ARTICLE	IF	CITATIONS
181	Behaviour of Rare Earth Elements in Molten Salts in Relation to Pyrochemical Reprocessing of Spent Nuclear Fuels. ECS Transactions, 2007, 3, 493-502.	0.5	9
182	Speciation of Molybdenum and Tungsten in Molten Chlorides: A Spectroelectrochemical Study. ECS Transactions, 2007, 3, 555-566.	0.5	6
183	Thermodynamics of the Formation of Vanadium(II) Complexes in Chloride Melts. ECS Transactions, 2007, 3, 589-597.	0.5	8
184	Tungsten Chemistry in Alkali Chloride Melts. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2007, 62, 739-744.	1.5	5
185	Effect of Melt Composition on the Reaction of Uranium Dioxide with Hydrogen Chloride in Molten Alkali Chlorides. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2007, 62, 671-676.	1.5	12
186	Spectroelectrochemical Study of Neptunium in Molten LiCl-KCl Eutectic. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2007, 62, 745-748.	1.5	6
187	Uranium-involving electrode processes in chloride melts: An x-ray absorption spectroscopy study. Russian Journal of Electrochemistry, 2007, 43, 977-980.	0.9	1
188	Reprocessing spent nuclear fuel using molten carbonates and subsequent precipitation of rare earth fission products using phosphate. Journal of Alloys and Compounds, 2006, 418, 116-121.	5.5	27
189	Study of Causes of Film Formation on the Electrolyte Surface during Niobium Electrorefining. ECS Transactions, 2006, 3, 415-422.	0.5	0
190	Four thallium(I) uranates(VI), their preparation, structure and properties. Journal of Nuclear Materials, 2005, 344, 73-78.	2.7	2
191	Structures of chloro-uranium species in molten LiCl-BeCl ₂ eutectic: A combined X-ray and electronic absorption spectroscopy study. Journal of Nuclear Materials, 2005, 344, 100-103.	2.7	14
192	Structural Characterization of a Lanthanum Bistriflimide Complex, La(N(SO ₂ CF ₃) ₂) ₃ (H ₂ O) ₃ , and an Investigation of La, Sm, and Eu Electrochemistry in a Room-Temperature Ionic Liquid, [Me ₃ NnBu][N(SO ₂ CF ₃) ₂]. Inorganic Chemistry, 2005, 44, 4934-4940.	4.0	121
193	Uranium Oligomerization in Chloride-Based High Temperature Melts: In Situ XAS Studies. Inorganic Chemistry, 2005, 44, 2-4.	4.0	17
194	A New General and Rapid Method for Investigating Hot Corrosion: Preliminary Tests on Electrodes for Molten Carbonate Fuel Cells. Materials Science Forum, 2004, 461-464, 1133-1140.	0.3	1
195	Reactions and Speciation of Technetium and Rhenium in Chloride Melts: A Spectroscopy Study.. ChemInform, 2003, 34, no.	0.0	0
196	Treatment of molten salt wastes by phosphate precipitation: removal of fission product elements after pyrochemical reprocessing of spent nuclear fuels in chloride melts. Journal of Nuclear Materials, 2003, 323, 49-56.	2.7	88
197	Behavior of molybdenum in pyrochemical reprocessing: A spectroscopic study of the chlorination of molybdenum and its oxides in chloride melts. Journal of Nuclear Materials, 2003, 323, 93-100.	2.7	13
198	Chemistry of vanadium chlorides in molten salts: An electronic absorption spectroscopy study. Journal of Molecular Liquids, 2003, 103-104, 387-394.	4.9	5

#	ARTICLE	IF	CITATIONS
199	Formation of lanthanide phosphates in molten salts and evaluation for nuclear waste treatment. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 3053.	2.8	30
200	A Spectroscopic Study of Uranium Species Formed in Chloride Melts. <i>Journal of Nuclear Science and Technology</i> , 2002, 39, 595-598.	1.3	14
201	Reactions and speciation of technetium and rhenium in chloride melts: a spectroscopy study. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 5753-5760.	2.8	26
202	Group 15 quaternary alkyl bistriflimides: ionic liquids with potential application in electropositive metal deposition and as supporting electrolytes. <i>Dalton Transactions RSC</i> , 2002, , 4532-4534.	2.3	84
203	The electronic spectra of alkali metal uranates and band assignments: an analysis of their diffuse reflectance spectra. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 5182-5191.	2.8	35
204	Raman and infrared spectra of rubidium and caesium uranates(VI) and some problems assigning diuranate site symmetries. <i>Vibrational Spectroscopy</i> , 2001, 25, 223-230.	2.2	12
205	A new method for determining oxygen solubility in molten carbonates and carbonate-chloride mixtures using the oxidation of UO ₂ to uranate reaction. <i>Journal of Nuclear Materials</i> , 2000, 282, 152-158.	2.7	29
206	Chemical solubility of alkali metal uranate(VI) species in molten carbonates under basic and acidic conditions. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 3029-3035.	2.8	12
207	Electronic absorption spectral study of the oxidation of uranium dioxide in chloride melts. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 3871-3876.	2.8	5
208	Catalytic oxidation of ammonia: A sparkling experiment. <i>Journal of Chemical Education</i> , 2000, 77, 177.	2.3	4
209	A review of the high temperature oxidation of uranium oxides in molten salts and in the solid state to form alkali metal uranates, and their composition and properties. <i>Journal of Nuclear Materials</i> , 1999, 274, 229-251.	2.7	40
210	Molybdenum chemistry in molten LiCl-KCl eutectic: an electrochemical and absorption spectroscopy study of the concentration dependent stability of solutions of K ₃ MoCl ₆ . <i>Electrochimica Acta</i> , 1999, 44, 4619-4629.	5.2	19
211	Solubilities and solubilisation enthalpies of alkali metal uranates(VI) in carbonate melts. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 3297-3302.	2.8	18
212	Effect of Temperature on Chromaticity Coordinates over a 700Å° Range: A Study of Alkali Metal Uranates. <i>Dyes and Pigments</i> , 1998, 39, 139-157.	3.7	11
213	Oxidation of ceramic uranium dioxide in alkali metal carbonate-based melts: a study using various oxidants and comparison with UO ₂ powder. <i>Journal of Nuclear Materials</i> , 1998, 256, 131-138.	2.7	15
214	Vibrational spectra of alkali metal (Li, Na and K) uranates and consequent assignment of uranate ion site symmetry. <i>Vibrational Spectroscopy</i> , 1998, 17, 83-91.	2.2	46
215	Oxidation of powder and ceramic UO ₂ by KClO ₃ in molten (Li-Na-K)CO ₃ eutectic. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 2623-2625.	1.7	7
216	Electronic Spectra and Solubilities of Alkali Metal Uranates Formed Upon Oxidation of Uranium Dioxide in Alkali Metal Carbonate and Carbonate-Based Melts. <i>ECS Proceedings Volumes</i> , 1998, 1998-11, 612-626.	0.1	1

#	ARTICLE	IF	CITATIONS
217	Increased oxidation of UO ₂ in molten alkali-metal carbonate based mixtures by increasing oxygen solubility and by controlled generation of superoxide ions, and evidence for a new sodium uranate. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 3819-3826.	1.7	26
218	Oxidation of UO ₂ in molten alkali-metal carbonate mixtures: formation of uranates and diuranates. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 5059.	1.7	24
219	Glycine-Nitrate Combustion Synthesis of ZrO ₂ -Y ₂ O ₃ Nanopowders. Advanced Materials Research, 0, 1103, 37-43.	0.3	6
220	Thermodynamics and Separation Factor of Uranium from Fission Products in a Liquid Metal-Molten Salt System. , 0, , .		1