Maksym Shevchenko

List of Publications by Year
in descending order

88 papers	734 citations	687363 13 h-index	794594 19 g-index
91 all docs	91 docs citations	91 times ranked	224 citing authors

#	Article	IF	Citations
1	Experimental phase equilibria study and thermodynamic modelling of the PbO-â€œFeOâ€•SiO2-ZnO, PbO-â€œFeOâ€•SiO2-Al2O3 and PbO-â€œFeOâ€•SiO2-MgO systems in equilibrium with metallic Pb and Fe. Ceramics International, 2022, , .	4.8	1
2	Integrated Experimental and Thermodynamic Modeling Investigation of Phase Equilibria in the PbOâ€"MgOâ€"SiO2 System in Air. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2022, 53, 954-967.	2.1	6
3	Integrated experimental and thermodynamic modeling study of phase equilibria in the â€˜CuO0.5â€™-MgO-SiO2 system in equilibrium with liquid Cu metal for characterizing refractory-slag interactions. Ceramics International, 2022, , .	4.8	1
4	Experimental phase equilibria studies in the â€œCuO0.5â€•CaO-SiO2 ternary system in equilibrium with metallic copper. Ceramics International, 2022, 48, 9927-9938.	4.8	2
5	Experimental study, thermodynamic calculations and industrial implications of slag/matte/metal equilibria in the Cuâ€"Pbâ€"Feâ€"Oâ€"Sâ€"Si system. Journal of Materials Research and Technology, 2022, , .	5.8	2
6	Experimental Study and Thermodynamic Calculations in the CaOâ€"Cu2Oâ€"FeOâ€"Fe2O3â€"SiO2 System for Applications in Novel Copper-Based Processes. Journal of Sustainable Metallurgy, 2021, 7, 300-313.	2.3	7
7	Integrated experimental phase equilibria study and thermodynamic modelling of the binary ZnOâ€"Al2O3, ZnOâ€"SiO2, Al2O3â€"SiO2 and ternary ZnOâ€"Al2O3â€"SiO2 systems. Ceramics International, 2021, 47, 20974-20991.	4.8	14
8	Experimental Phase Equilibria Studies in the FeO-Fe2O3-CaO-SiO2 System and the Subsystems CaO-SiO2, FeO-Fe2O3-SiO2 in Air. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 1891-1914.	2.1	8
9	Experimental Phase Equilibria Studies in the FeO-Fe2O3-CaO-Al2O3 System in Air. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 2416-2429.	2.1	7
10	Integrated experimental liquidus and modelling studies of the ternary AgO0.5-FeO1.5-SiO2 system in equilibrium with metallic Ag. Journal of Alloys and Compounds, 2021, 870, 159333.	5.5	3
11	Experimental Phase Equilibria Study and Thermodynamic Modelling of the PbO-â€œFeOâ€•SiO2, PbO-â€œFeOâ€•CaO and PbO-â€œFeOâ€•CaO-SiO2 Systems in Equilibrium with Metallic Pb and Fe. Journal of Phase Equilibria and Diffusion, 2021, 42, 452-467.	1.4	4
12	Experimental study and thermodynamic modeling of the Cuâ€"Snâ€"Siâ€"O system and sub-systems. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2021, 74, 102312.	1.6	8
13	Integrated experimental phase equilibria study and thermodynamic modeling of the PbOâ€"SnOâ€"SnO2â€"SiO2 system in air and in equilibrium with Pbâ€"Sn metal. Journal of Alloys and Compounds, 2021, 888, 161402.	5.5	5
14	Experimental study of â€œCuO0.5â€•â€œFeOâ€•SiO2 and â€œFeOâ€•SiO2 systems in equilibrium with metal at 1400â€"1680ÂÂ°C. Journal of Alloys and Compounds, 2021, 885, 160853.	5.5	5
15	Investigation of the Thermodynamic Stability of C(A, F)3 Solid Solution in the FeO-Fe2O3-CaO-Al2O3 System and SFCA Phase in the FeO-Fe2O3-CaO-SiO2-Al2O3 System. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 517-527.	2.1	6
16	The Effect of MgO on Gasâ€"Slagâ€"Matteâ€"Tridymite Equilibria in Fayalite-Based Copper Smelting Slags at 1473ÂK (1200ÂÂ°C) and 1573ÂK (1300ÂÂ°C), and P(SO2)â€‰=â€‰0.25Âatm. Journal of Phase Equilibria and Diffusion, 2020, 41, 44-55.	1.4	9
17	Experimental Study and Thermodynamic Calculations of the Distribution of Ag, Au, Bi, and Zn Between Pb Metal and Pbâ€"Feâ€"Oâ€"Si slag. Journal of Sustainable Metallurgy, 2020, 6, 68-77.	2.3	13
18	Thermodynamic optimization of the binary PbOâ€"CaO and ternary PbOâ€"CaOâ€"SiO2 systems. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2020, 70, 101807.	1.6	8

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19	Experimental study and thermodynamic optimization of the ZnOâ€“FeOâ€“Fe2O3â€“CaOâ€“SiO2 system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2020, 71, 102011.	1.6	9
20	Phase Equilibria and Minor Element Distributions in Complex Copper/Slag/Matte Systems. Jom, 2020, 72, 3401-3409.	1.9	19
21	Experimental Investigation of Gas/Slag/Matte/Tridymite Equilibria in the Cu-Fe-O-S-Si-Al-Ca-Mg System in Controlled Gas Atmosphere: Experimental Results at 1473ÂK (1200ÂÂ°C), 1573ÂK (1300ÂÂ°C) and p(SO2)â€‰=â€‰0.25Âatm. Journal of Phase Equilibria and Diffusion, 2020, 41, 243-256.		10
22	Thermodynamic optimization of the binary CaOâ€“ZnO and ternary CaOâ€“ZnOâ€“SiO2 systems. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2020, 70, 101800.	1.6	6
23	Experimental Liquidus Studies of the ZnO-â€œCuO0.5â€•and ZnO-â€œCuO0.5â€•SiO2 Liquidus in Equilibrium with Cu-Zn Metal. Journal of Phase Equilibria and Diffusion, 2020, 41, 207-217.	1.4	9
24	Experimental Phase Equilibria Studies in the FeO-Fe2O3-CaO-SiO2 System in Air: Results for the Iron-Rich Region. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 1587-1602.	2.1	8
25	Experimental Study of Gas-Slag-Matte-Tridymite Equilibria in the Cu-Fe-O-S-Si-Al System at 1573ÂK (1300ÂÂ°C) and P(SO2)â€‰=â€‰0.25Âatm. Journal of Phase Equilibria and Diffusion, 2020, 41, 66-78.	1.4	6
26	Thermodynamic optimization of the ZnOâ€“FeOâ€“Fe2O3â€“SiO2 system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2020, 68, 101735.	1.6	11
27	Characterization of Phase Equilibria and Thermodynamics with Integrated Experimental and Modelling Approach for Complex Lead Primary and Recycling Processing. Minerals, Metals and Materials Series, 2020, , 337-349.	0.4	12
28	Thermodynamic optimization of the binary PbO-â€œCu2Oâ€, â€œCu2Oâ€•SiO2 and ternary PbO-â€œCu2Oâ€•SiO2 systems. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2020, 69, 101774.	1.6	8
29	Experimental measurement and thermodynamic model predictions of the distributions of Cu, As, Sb and Sn between liquid lead and PbOâ€“FeOâ€“Fe2O3â€“SiO2 slag. International Journal of Materials Research, 2020, 111, 733-743.	0.3	11
30	Thermodynamic optimization of the Al2O3â€“FeOâ€“Fe2O3â€“SiO2 oxide system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2019, 67, 101680.	1.6	20
31	Experimental Liquidus Study of the Ternary CaO-ZnO-SiO2 System. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 2780-2793.	2.1	12
32	Experimental Liquidus Studies of the CaO-ZnO-Fe2O3 System in Air. Journal of Phase Equilibria and Diffusion, 2019, 40, 779-786.	1.4	1
33	Thermodynamic optimization of the PbOâ€“FeOâ€“Fe2O3â€“SiO2 system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2019, 67, 101670.	1.6	12
34	Experimental Liquidus Studies of the Binary Pb-Cu-O and Ternary Pb-Cu-Si-O Systems in Equilibrium with Metallic Pb-Cu Alloys. Journal of Phase Equilibria and Diffusion, 2019, 40, 671-685.	1.4	18
35	Experimental Liquidus Study of the Binary PbO-CaO and Ternary PbO-CaO-SiO2 Systems. Journal of Phase Equilibria and Diffusion, 2019, 40, 148-155.	1.4	12
36	A Phase Equilibrium of the Iron-rich Corner of the CaOâ€“FeOâ€“Fe₂O₃â€“SiO₂ System in Air and the Determination of the SFC Primary Phase Field. ISIJ International, 2019, 59, 795-804.	1.4	20

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37	Effect of Gas Atmosphere on the Phase Chemistry in the CaOâ€“FeOâ€“Fe₂O₃â€“SiO₂ System Related to Iron Ore Sinter-making. ISIJ International, 2019, 59, 805-809.	1.4	10
38	Experimental Liquidus Studies of the Pb-Fe-Ca-O System in Air. Journal of Phase Equilibria and Diffusion, 2019, 40, 128-137.	1.4	11
39	Experimental Liquidus Studies of the Pb-Fe-Si-O System in Air. Journal of Phase Equilibria and Diffusion, 2019, 40, 319-355.	1.4	29
40	Thermodynamic optimization of the binary systems PbO-SiO2, ZnO-SiO2, PbO-ZnO, and ternary PbO-ZnO-SiO2. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2019, 64, 318-326.	1.6	23
41	Experimental liquidus study of the binary PbO-ZnO and ternary PbO-ZnO-SiO2 systems. Ceramics International, 2019, 45, 6795-6803.	4.8	27
42	Experimental liquidus studies of the Znâ€“Feâ€“Siâ€“O system in air. International Journal of Materials Research, 2019, 110, 600-607.	0.3	8
43	Experimental Liquidus Studies of the Pb-Cu-Si-O System in Equilibrium with Metallic Pb-Cu Alloys. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 1690-1698.	2.1	11
44	Thermochemical Properties of Binary Baâ€“In Alloys. Powder Metallurgy and Metal Ceramics, 2018, 56, 556-566.	0.8	1
45	Experimental phase equilibria studies of the PbOâ€“SiO₂ system. Journal of the American Ceramic Society, 2018, 101, 458-471.	3.8	39
46	Experimental Liquidus Studies of the Pb-Fe-Si-O System in Equilibrium with Metallic Pb. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 159-180.	2.1	39
47	The Thermodynamic Properties and Phase Equilibria in Ceâ€“Sn Alloys. Powder Metallurgy and Metal Ceramics, 2018, 57, 473-479.	0.8	2
48	Thermodynamic Properties of Alloys of the Snâ€“Yb System. Russian Journal of Physical Chemistry A, 2018, 92, 630-639.	0.6	1
49	Thermodynamic Properties of Alâ€“Laâ€“Ni Melts. Powder Metallurgy and Metal Ceramics, 2017, 55, 603-611.	0.8	1
50	Thermodynamic Properties of Laâ€“Ni Alloys. Powder Metallurgy and Metal Ceramics, 2017, 55, 717-725.	0.8	3
51	Experimental Phase Equilibria Studies of the Pb-Fe-O System in Air, in Equilibrium with Metallic Lead and at Intermediate Oxygen Potentials. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 2970-2983.	2.1	13
52	Thermodynamic Properties of Coâ€“Pr Alloys. Powder Metallurgy and Metal Ceramics, 2017, 56, 94-101.	0.8	1
53	Thermodynamic characteristics and phase equilibria in the alloys of the Geâ€“La system. Russian Journal of Physical Chemistry A, 2017, 91, 1380-1387.	0.6	3
54	Thermodynamic Properties of Binary Alâ€“Nd Alloys. Powder Metallurgy and Metal Ceramics, 2017, 56, 333-354.	0.8	3

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55	Thermodynamic properties of liquid copperâ€“lanthanum alloys. Russian Journal of Physical Chemistry A, 2017, 91, 990-997.	0.6	6
56	Thermodynamic properties of alloys of the binary Sbâ€“Yb system. Russian Journal of Physical Chemistry A, 2017, 91, 1174-1182.	0.6	5
57	Thermodynamic Properties of Alloys of the Binary Biâ€”Yb System. Russian Journal of Physical Chemistry A, 2016, 90, 723-734.	0.6	4
58	Thermodynamic properties of alloys of the binary Inâ€“La system. Russian Journal of Physical Chemistry A, 2016, 90, 1101-1114.	0.6	3
59	Thermodynamic Properties of Ceâ€“Inâ€“Ni Ternary Alloys. Powder Metallurgy and Metal Ceramics, 2016, 54, 704-711.	0.8	0
60	Thermodynamic Properties of Binary Alâ€“Pr Alloys. Powder Metallurgy and Metal Ceramics, 2016, 55, 78-90.	0.8	4
61	Thermodynamic properties of alloys of the binary Inâ€“Yb system. Russian Journal of Physical Chemistry A, 2016, 90, 893-902.	0.6	2
62	Thermodynamic Properties of Ceâ€“Ni Binary Alloys. Powder Metallurgy and Metal Ceramics, 2016, 54, 590-598.	0.8	6
63	Thermodynamic properties of alloys of the binary Gdâ€“In system. Russian Journal of Physical Chemistry A, 2016, 90, 1-10.	0.6	7
64	Experimental Study of Liquidus of the â€œFeOâ€•SiO2-PbO Slags in Equilibrium with Air and with Metallic Lead. , 2016, , 1221-1228.		14
65	Mixing Enthalpies of Alâ€“Co Melts. Powder Metallurgy and Metal Ceramics, 2015, 54, 324-330.	0.8	2
66	Thermodynamic properties of alloys of the Co-Sc and Co-Y systems. Russian Journal of Physical Chemistry A, 2015, 89, 931-940.	0.6	3
67	Thermodynamic Properties of Alloys of the Binary Al-Sm, Sm-Sn and Ternary Al-Sm-Sn Systems. Journal of Phase Equilibria and Diffusion, 2015, 36, 39-52.	1.4	17
68	Thermodynamic Properties of Binary Alâ€“Ce and Ceâ€“Fe Alloys. Powder Metallurgy and Metal Ceramics, 2015, 54, 80-92.	0.8	7
69	Thermodynamic Properties of Euâ€“In Alloys. Powder Metallurgy and Metal Ceramics, 2015, 53, 693-700.	0.8	5
70	Thermodynamic Properties of Alloys in the Binary Caâ€“Ge System. Journal of Phase Equilibria and Diffusion, 2015, 36, 554-572.	1.4	14
71	Thermodynamic Properties of Binary CEâ€“IN Alloys. Powder Metallurgy and Metal Ceramics, 2015, 54, 194-200.	0.8	4
72	Thermodynamic Properties of Binary Inâ€“Ni Alloys. Powder Metallurgy and Metal Ceramics, 2015, 54, 465-470.	0.8	2

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73	Thermodynamic properties of Eu-Pt and Al-Eu-Pt melts. Inorganic Materials, 2014, 50, 320-323.	0.8	0
74	Thermodynamic properties of melts of the binary Ag(Au)-Sm systems. Russian Journal of Physical Chemistry A, 2014, 88, 200-206.	0.6	8
75	Thermodynamic properties of liquid alloys Ni-Eu and Ni-Yb. Russian Journal of Physical Chemistry A, 2014, 88, 1463-1471.	0.6	7
76	Thermodynamic properties of alloys of the Al-Co and Al-Co-Sc systems. Russian Journal of Physical Chemistry A, 2014, 88, 729-734.	0.6	12
77	Thermodynamic Properties of Alâ€“Sc Alloys. Powder Metallurgy and Metal Ceramics, 2014, 53, 243-249.	0.8	7
78	Thermodynamic properties of alloys of the Ni-Sc and Ni-Y systems. Russian Journal of Physical Chemistry A, 2014, 88, 897-902.	0.6	15
79	Thermodynamic properties of the Al-Eu-Sn melts. Inorganic Materials, 2013, 49, 852-855.	0.8	0
80	Thermodynamic Properties of Liquid Feâ€“Sc Alloys. Powder Metallurgy and Metal Ceramics, 2013, 52, 456-464.	0.8	4
81	Thermodynamic properties of melts of Mn-Sc(Y, Ln) systems. Russian Journal of Physical Chemistry A, 2012, 86, 1779-1784.	0.6	2
82	Thermodynamic properties of Al-Y system melts. Russian Journal of Physical Chemistry A, 2011, 85, 1-8.	0.6	4
83	The thermodynamic properties of Al-Si system melts. Russian Journal of Physical Chemistry A, 2011, 85, 164-170.	0.6	4
84	Thermodynamic properties of Eu-Pd melts. Russian Journal of Physical Chemistry A, 2011, 85, 2068-2073.	0.6	5
85	Thermodynamic properties of Eu-Sn melts. Russian Journal of Physical Chemistry A, 2011, 85, 2237-2240.	0.6	1
86	Thermodynamic properties of Niâ€“Hf melts. Powder Metallurgy and Metal Ceramics, 2010, 49, 478-483.	0.8	4
87	Experimental Measurements of Slag/Matte/Metal/Tridymite Phase Equilibria in the Cu-Fe-O-S-Si System at 1200Âºc. Mineral Processing and Extractive Metallurgy Review, 0, , 1-11.	5.0	5
88	Experimental Study of the Cu2O-FeOx-CaO System in Equilibrium With Metallic Copper at 1200 Â°C to 1300 Â°C and at P(O2)s = 10â˘5 to 10â˘7 Atm. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 0, , 1.	2.1	3