Lingxin Kong

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2491714/publications.pdf Version: 2024-02-01

		331259	525886
103	1,256	21	27
papers	citations	h-index	g-index
122 all docs	122 docs citations	122 times ranked	644 citing authors

#	Article	IF	CITATIONS
1	Advances in Molten Salt Synthesis of Nonâ€oxide Materials. Energy and Environmental Materials, 2023, 6, .	7.3	13
2	Promoting Homogeneous Interfacial Li ⁺ Migration by Using a Facile N ₂ Plasma Strategy for Allâ€Solidâ€State Lithiumâ€Metal Batteries. Advanced Functional Materials, 2022, 32, .	7.8	11
3	Thermodynamic and kinetic analyses of vacuum synthesis of AlN by the alumina carbothermal reduction nitridation method. Journal of the American Ceramic Society, 2022, 105, 3850-3861.	1.9	4
4	The lead removal evolution from hazardous waste cathode ray tube funnel glass under enhancement of red mud melting and synthesizing value-added glass-ceramics via reutilization of silicate resources. Journal of Hazardous Materials, 2022, 429, 128334.	6.5	5
5	Vapor–Liquid Equilibria for Zinc–Nickel Binary Alloy System: Measurement and Modeling Using Simplified Molecular Interaction Volume Model. Journal of Solution Chemistry, 2022, 51, 384.	0.6	0
6	Phase Relations in the CaO-B2O3-Sc2O3 Ternary System. Journal of Phase Equilibria and Diffusion, 2022, 43, 98-108.	0.5	0
7	Preparation of Antimony Sulfide and Enrichment of Gold by Sulfuration–Volatilization from Electrodeposited Antimony. Minerals (Basel, Switzerland), 2022, 12, 264.	0.8	3
8	Rational Design of Electrolyte Solvation Structures for Modulating 2e ^{â^'} /4e ^{â^'} Transfer in Sodium–Air Batteries. Advanced Functional Materials, 2022, 32, .	7.8	21
9	Insight into the Self-Assembled Three-Dimensional Sandwich-Like Hollow Silicon Nanoarray/Graphene Lithium Storage Architecture by Sonication-Assisted Functionalization. Energy & Fuels, 2022, 36, 3283-3292.	2.5	2
10	A DFT Study of Al _{<i>n</i>} Ti _{<i>n</i>} (<i>n</i> = 2–12) Alloy Clusters. Physica Status Solidi (B): Basic Research, 2022, 259, .	0.7	3
11	Preparation of a Porous Flow-Through Electrode for CO ₂ Reduction to CO in a Multi-Chamber Electrolyzer in an Organic Electrolyte. Energy & Fuels, 2022, 36, 3771-3777.	2.5	3
12	The Investigation of Removal and Occurrence State of Impurity Elements During Crude Tin Vacuum Distillation. Journal of Sustainable Metallurgy, 2022, 8, 700-714.	1.1	1
13	Ultrafine AlN synthesis by alumina carbothermal reduction under vacuum: Mechanism and experimental study. Powder Technology, 2021, 377, 843-846.	2.1	14
14	Vacuum decomposition thermodynamics and experiments of recycled lead carbonate from waste lead acid battery. Thermal Science, 2021, 25, 25-38.	0.5	1
15	Prediction of activities of all components in Sn-Ag-Cu and Sn-Ag-Cu-Zn lead-free solders using modified molecular interaction volume model. Results in Chemistry, 2021, 3, 100143.	0.9	2
16	Study on Evaporation Kinetics of Zn in Bi–Zn and Bi–Sn–Zn Systems Under Vacuum Condition. Journal of Sustainable Metallurgy, 2021, 7, 995-1003.	1.1	0
17	Hydrothermal synthesis and enhanced photocatalytic activity of Na0.5Gd0.5MoO4. Journal of Materials Science, 2021, 56, 16612-16622.	1.7	1
18	Vacuum separation of zinc-silver alloy: Measurement and modeling of vapor-liquid equilibrium. Vacuum, 2021, 189, 110245.	1.6	2

#	Article	IF	CITATIONS
19	Vacuum Gasification-Directional Condensation for Separation of Tellurium from Lead Anode Slime. Metals, 2021, 11, 1535.	1.0	4
20	Effective separation and recovery of valuable metals from high value-added lead anode slime by sustainable vacuum distillation. Journal of Cleaner Production, 2021, 319, 128731.	4.6	15
21	Kinetics study of Pb evaporation from pure Pb and Pb–Ag alloy in vacuum evaporation process. Journal of Materials Research and Technology, 2021, 15, 7012-7021.	2.6	5
22	Study on the effective distribution coefficient of impurity separation in the preparation of high purity aluminum. Journal of Materials Research and Technology, 2020, 9, 10366-10376.	2.6	6
23	Recycling of Spent Indium–Gallium–Zinc Oxide Based on Molten Salt Electrolysis. ACS Sustainable Chemistry and Engineering, 2020, 8, 16296-16303.	3.2	14
24	Theoretical Study on Growth Mechanism of AlnNn (n = 2–9) Clusters. Russian Journal of Physical Chemistry A, 2020, 94, 1456-1463.	0.1	3
25	Experimental Investigation of Molybdenum Disulfide Purification Through Vacuum Distillation. Journal of Sustainable Metallurgy, 2020, 6, 419-427.	1.1	5
26	Highly Hierarchical Fibrillar Biogenic Silica with Mesoporous Structure Derived from the Perennial Plant <i>Equisetum Fluviatile</i> . ACS Applied Materials & Interfaces, 2020, 12, 35259-35265.	4.0	7
27	Purification of crude selenium by vacuum distillation and analysis. Journal of Materials Research and Technology, 2020, 9, 2926-2933.	2.6	41
28	Electrode heating effects on preparation of Al-65V alloy. Journal of Central South University, 2020, 27, 1-9.	1.2	4
29	Prediction of Partial Molar Enthalpies and Mixing Enthalpies for Sn-Based Binary Alloys by the Wilson Equation. Journal of Solution Chemistry, 2020, 49, 458-465.	0.6	0
30	Preparation of High-Purity Tin by Zone Melting. Russian Journal of Non-Ferrous Metals, 2020, 61, 9-20.	0.2	5
31	Phase relations of CaOâ€Al ₂ O ₃ â€Sc ₂ O ₃ ternary system. Journal of the American Ceramic Society, 2019, 102, 2863-2870.	1.9	6
32	Study on Hardness, Microstructure, Distribution of the Self-lubricating Phase, Friction and Wear Property of 1Cr13MoS after Heat Treatment. Materials, 2019, 12, 3171.	1.3	0
33	Lattice Boltzmann Method Modeling of Flow Structures and Level Fluctuations in a Continuous Casting Process. ACS Omega, 2019, 4, 13131-13142.	1.6	1
34	Theoretical study on Sn–Sb-based lead-free solder by ab initio molecular dynamics simulation. Journal of Materials Research, 2019, 34, 2543-2553.	1.2	6
35	A Novel Method of Fabricating Al-V Intermetallic Alloy through Electrode Heating. Metals, 2019, 9, 558.	1.0	10
36	Dynamic Simulation and Experimental Study of Magnesia Formed Between Magnesium Vapor and CO Under Vacuum. Jom, 2019, 71, 2791-2797.	0.9	7

#	Article	IF	CITATIONS
37	Sustainable extraction of lead and re-use of valuable metals from lead-rich secondary materials. Journal of Cleaner Production, 2019, 219, 110-116.	4.6	59
38	Color-tunable and upconversion luminescence of Gd2O2S:Er,Tm phosphor: experimental investigations and first-principles calculation. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	4
39	Fabrication of Ag2S electrode for CO2 reduction in organic media. lonics, 2019, 25, 1921-1927.	1.2	13
40	Effect of CH3COOH on Hydrometallurgical Purification of Metallurgical-Grade Silicon Using HCl-HF Leaching. Jom, 2018, 70, 527-532.	0.9	10
41	Cooperative upconversion luminescence of Er3+ in Gd2O3â^'xSx phosphor. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 190, 312-317.	2.0	3
42	Reactions and microstructure evolution in <scp>A</scp> l ₂ <scp>O</scp> ₃ â€ <scp>A</scp> l system in vacuum. Asia-Pacific Journal of Chemical Engineering, 2018, 13, e2144.	0.8	2
43	Effect of CaCl2 on Microstructure of Calciothermic Reduction Products of Ti2O3 to Prepare Porous Titanium. Metals, 2018, 8, 698.	1.0	4
44	The Density Functional Theory Investigation on the Structural, Relative Stable and Electronic Properties of Bimetallic PbnSbn (n = 2–12) Clusters. Journal of Cluster Science, 2018, 29, 1305-1311.	1.7	6
45	Preparation of Nickel Nanoparticles by Direct Current Arc Discharge Method and Their Catalytic Application in Hybrid Na-Air Battery. Nanomaterials, 2018, 8, 684.	1.9	16
46	Calculation of the second virial coefficients of alkali metals by modified Peng–Robinson equation. Journal of Mathematical Chemistry, 2018, 56, 2768-2784.	0.7	3
47	Selection of Low ost Ionic Liquid Electrocatalyst for CO ₂ Reduction in Propylene Carbonate/Tetrabutylammonium Perchlorate. ChemElectroChem, 2018, 5, 2295-2300.	1.7	14
48	Decomposition of Al4O4C in the presence of C at high temperatures in vacuum. International Journal of Materials Research, 2018, 109, 399-404.	0.1	4
49	Direct calciothermic reduction of porous calcium titanate to porous titanium. Materials Science and Engineering C, 2018, 91, 125-134.	3.8	14
50	Measurement and modeling of phase equilibria for Sb-Sn and Bi-Sb-Sn alloys in vacuum distillation. Fluid Phase Equilibria, 2017, 442, 62-67.	1.4	16
51	Theoretical insights into the structural, relative stable, electronic, and gas sensing properties of Pb _n Au _n (n = 2–12) clusters: a DFT study. RSC Advances, 2017, 7, 45432-45441.	1.7	28
52	Prediction of Vapor–Liquid Equilibria for Pb–Pd and Pb–Pt Alloys Using Ab Initio Methods in Vacuum Distillation. Journal of Solution Chemistry, 2017, 46, 1514-1521.	0.6	5
53	Structural, Relative Stable, and Electronic Properties of PbnSnn (nÂ=Â2–12) Clusters were Investigated Using Density Functional Theory. Journal of Cluster Science, 2017, 28, 2503-2516.	1.7	7
54	Ab Initio Molecular Dynamics Studies of Pb m Sb n (mÂ+ÂnÂâ‰Â9) Alloy Clusters. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 4905-4913.	1.1	3

#	Article	IF	CITATIONS
55	Experimental and modeling vapor-liquid equilibria: Separation of Bi from Sn by vacuum distillation. Vacuum, 2017, 135, 109-114.	1.6	18
56	(Vapor + Liquid) Equilibrium (VLE) for Binary Lead-Antimony System in Vacuum Distillation: New Data and Modeling Using Nonrandom Two-Liquid (NRTL) Model. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 4494-4501.	1.1	3
57	Vapor–liquid phase equilibria of binary tin–antimony system in vacuum distillation: Experimental investigation and calculation. Fluid Phase Equilibria, 2016, 415, 176-183.	1.4	22
58	Color-tunable and upconversion luminescence of Gd2O2S:Er,Tb phosphor. Materials Chemistry and Physics, 2016, 169, 113-119.	2.0	15
59	Prediction of Covalent Interactions Between Si and B, Fe, Al or Ca in Metallurgical Grade Silicon Using ab initio Molecular Dynamic Simulations. Silicon, 2015, 7, 253-259.	1.8	6
60	Vapor–liquid phase diagrams of Pb–Sn and Pb–Ag alloys in vacuum distillation. Vacuum, 2015, 119, 179-184.	1.6	35
61	A secret handshake scheme for mobile-hierarchy architecture based underground emergency response system. , 2015, , .		2
62	Application of MIVM for Sn-Zn System in Vacuum Distillation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 1205-1213.	1.1	13
63	Study on Al Removal from MG-Si by Vacuum Refining. Silicon, 2015, 7, 269-274.	1.8	27
64	Calculation of interaction of AlCl, AlCl2 and AlCl3 on Al4C3 (001) Al4CO4 (001) and Al2CO (001) planes. Journal of Central South University, 2015, 22, 43-58.	1.2	3
65	Synthesis of vanadium doped LiMnPO4 by an improved solid-state method. Ceramics International, 2015, 41, 8171-8176.	2.3	18
66	Magnesium production by carbothermic reduction in vacuum. Journal of Magnesium and Alloys, 2015, 3, 149-154.	5.5	22
67	Boron Removal from Metallurgical Grade Silicon using a Refining Technique of Calcium Silicate Molten Slag Containing Potassium Carbonate. Silicon, 2015, 7, 247-252.	1.8	19
68	Analysis of Magnesia Carbothermic Reduction Process in Vacuum. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 1936-1941.	1.0	27
69	Impurities Removal From Metallurgical Grade Silicon Using Gas Blowing Refining Techniques. Silicon, 2014, 6, 79-85.	1.8	38
70	Influence of vacuum upon preparation and luminescence of Si4+ and Ti4+ codoped Gd2O2S:Eu phosphor. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 126, 46-52.	2.0	11
71	Removal of impurities from crude lead with high impurities by vacuum distillation and its analysis. Vacuum, 2014, 105, 17-20.	1.6	37
72	Thermodynamics of removing impurities from crude lead by vacuum distillation refining. Transactions of Nonferrous Metals Society of China, 2014, 24, 1946-1950.	1.7	30

#	Article	IF	CITATIONS
73	Process optimization for vacuum distillation of Sn–Sb alloy by response surface methodology. Vacuum, 2014, 109, 127-134.	1.6	25
74	Selective removal of heavy metal ions from aqueous solutions with surface functionalized silica nanoparticles by different functional groups. Journal of Central South University, 2014, 21, 3575-3579.	1.2	30
75	Application of Molecular Interaction Volume Model for Phase Equilibrium of Sn-Based Binary System in Vacuum Distillation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 4405-4410.	1.1	21
76	Application of MIVM for Pb–Sn–Sb ternary system in vacuum distillation. Vacuum, 2014, 101, 324-327.	1.6	26
77	Application of MIVM for phase equilibrium of Sn–Pb–Sb system in vacuum distillation. Fluid Phase Equilibria, 2014, 364, 1-5.	1.4	16
78	Purification of indium by vacuum distillation and its analysis. Journal of Central South University, 2013, 20, 337-341.	1.2	18
79	Application of molecular interaction volume model in separation of Sn-Zn alloy by vacuum distillation. Journal of Central South University, 2013, 20, 3372-3378.	1.2	6
80	Extraction of aluminum from alumina by disproportionation process of AlCl in vacuum. Transactions of Nonferrous Metals Society of China, 2013, 23, 2781-2785.	1.7	4
81	Deeply removing lead from Pb-Sn alloy with vacuum distillation. Transactions of Nonferrous Metals Society of China, 2013, 23, 1822-1831.	1.7	30
82	Application of molecular interaction volume model in separation of Pb–Sn–Sb ternary alloy by vacuum distillation. Transactions of Nonferrous Metals Society of China, 2013, 23, 2408-2415.	1.7	12
83	Application of vacuum distillation in refining crude indium. Rare Metals, 2013, 32, 627-631.	3.6	27
84	Carbothermal reduction-chlorination-disproportionation of alumina in vacuum. Transactions of Nonferrous Metals Society of China, 2012, 22, 215-221.	1.7	17
85	Thermodynamic calculation and experimental investigation on the products of carbothermal reduction of Al2O3 under vacuum. Vacuum, 2012, 86, 2005-2009.	1.6	17
86	Application of MIVM for Pb-Sn System in Vacuum Distillation. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2012, 43, 1649-1656.	1.0	27
87	Carbothermic reduction of alumina with carbon in vacuum. Journal of Central South University, 2012, 19, 1813-1816.	1.2	7
88	Calculation and Characterization of Silicon-Boron Phases in Metallurgical Grade Silicon. Silicon, 2012, 4, 289-295.	1.8	13
89	Influence of Dy3+ coactivator on the luminescence properties of Gd2O2S:Tb3+ phosphor. Journal of Applied Physics, 2012, 111, 023101.	1.1	7
90	Behavior Analysis of CaF2 in Magnesia Carbothermic Reduction Process in Vacuum. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2012, 43, 657-661.	1.0	38

#	Article	IF	CITATIONS
91	Calculation of phase equilibrium in vacuum distillation by molecular interaction volume model. Fluid Phase Equilibria, 2012, 314, 78-81.	1.4	22
92	Investigation of chlorination process in aluminum production by carbothermic-chlorination reduction of Al2O3 under vacuum. Vacuum, 2012, 86, 1113-1117.	1.6	6
93	Application of molecular interaction volume model in vacuum distillation of Pb-based alloys. Vacuum, 2012, 86, 1296-1299.	1.6	46
94	Silica behavior in the alumina carbothermic reduction-chlorination process. Jom, 2011, 63, 116-119.	0.9	4
95	Molecular dynamics simulation on thermodynamic properties of Pb-Ag alloys. Rare Metals, 2010, 29, 323-326.	3.6	4
96	Molecular dynamics simulation on diffusion properties of Pb-Mg alloy. Science China Technological Sciences, 2010, 53, 2328-2332.	2.0	6
97	Theory Study of AlCl Disproportionation Reaction Mechanism on Al (110) Surface. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2010, 41, 137-145.	1.0	7
98	Effect of Sn4+ content on properties of indium tin oxide nanopowders. Transactions of Nonferrous Metals Society of China, 2010, 20, 643-648.	1.7	8
99	Aluminum production by carbothermo-chlorination reduction of alumina in vacuum. Transactions of Nonferrous Metals Society of China, 2010, 20, 1505-1510.	1.7	19
100	Synthesis and characterization of LiCo x Mn2â^'x O4 cathode materials. Journal Wuhan University of Technology, Materials Science Edition, 2007, 22, 307-310.	0.4	4
101	Application of MIVM for Sn-Ag and Sn-In Alloys in Vacuum Distillation. , 0, , 367-374.		0
102	Mechanism of Carbothermic Reduction of Magnesia and Reverse Reaction. , 0, , 511-516.		0
103	Vacuum Distillation Refining of Crude Tin - Thermodynamics Analysis and Experiments on the Removal of Arsenic from the Crude Tin. , 0, , 223-230.		0