Lingxin Kong

List of Publications by Year in descending order

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

LINCYIN KONC

#	Article	IF	CITATIONS
1	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
2	Application of molecular interaction volume model in vacuum distillation of Pb-based alloys. Vacuum, 2012, 86, 1296-1299.	1.6	46
3	Purification of crude selenium by vacuum distillation and analysis. Journal of Materials Research and Technology, 2020, 9, 2926-2933.	2.6	41
4	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
5	Impurities Removal From Metallurgical Grade Silicon Using Gas Blowing Refining Techniques. Silicon, 2014, 6, 79-85.	1.8	38
6	Removal of impurities from crude lead with high impurities by vacuum distillation and its analysis. Vacuum, 2014, 105, 17-20.	1.6	37
7	Vapor–liquid phase diagrams of Pb–Sn and Pb–Ag alloys in vacuum distillation. Vacuum, 2015, 119, 179-184.	1.6	35
8	Deeply removing lead from Pb-Sn alloy with vacuum distillation. Transactions of Nonferrous Metals Society of China, 2013, 23, 1822-1831.	1.7	30
9	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
10	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
11	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
12	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
13	Application of vacuum distillation in refining crude indium. Rare Metals, 2013, 32, 627-631.	3.6	27
14	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
15	Study on Al Removal from MG-Si by Vacuum Refining. Silicon, 2015, 7, 269-274.	1.8	27
16	Application of MIVM for Pb–Sn–Sb ternary system in vacuum distillation. Vacuum, 2014, 101, 324-327.	1.6	26
17	Process optimization for vacuum distillation of Sn–Sb alloy by response surface methodology. Vacuum, 2014, 109, 127-134.	1.6	25
18	Calculation of phase equilibrium in vacuum distillation by molecular interaction volume model. Fluid Phase Equilibria, 2012, 314, 78-81.	1.4	22

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19	Magnesium production by carbothermic reduction in vacuum. Journal of Magnesium and Alloys, 2015, 3, 149-154.	5.5	22
20	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
21	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
22	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
23	Aluminum production by carbothermo-chlorination reduction of alumina in vacuum. Transactions of Nonferrous Metals Society of China, 2010, 20, 1505-1510.	1.7	19
24	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
25	Purification of indium by vacuum distillation and its analysis. Journal of Central South University, 2013, 20, 337-341.	1.2	18
26	Synthesis of vanadium doped LiMnPO4 by an improved solid-state method. Ceramics International, 2015, 41, 8171-8176.	2.3	18
27	Experimental and modeling vapor-liquid equilibria: Separation of Bi from Sn by vacuum distillation. Vacuum, 2017, 135, 109-114.	1.6	18
28	Carbothermal reduction-chlorination-disproportionation of alumina in vacuum. Transactions of Nonferrous Metals Society of China, 2012, 22, 215-221.	1.7	17
29	Thermodynamic calculation and experimental investigation on the products of carbothermal reduction of Al2O3 under vacuum. Vacuum, 2012, 86, 2005-2009.	1.6	17
30	Application of MIVM for phase equilibrium of Sn–Pb–Sb system in vacuum distillation. Fluid Phase Equilibria, 2014, 364, 1-5.	1.4	16
31	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
32	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
33	Color-tunable and upconversion luminescence of Gd2O2S:Er,Tb phosphor. Materials Chemistry and Physics, 2016, 169, 113-119.	2.0	15
34	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
35	Selection of Lowâ€Cost Ionic Liquid Electrocatalyst for CO ₂ Reduction in Propylene Carbonate/Tetrabutylammonium Perchlorate. ChemElectroChem, 2018, 5, 2295-2300.	1.7	14
36	Direct calciothermic reduction of porous calcium titanate to porous titanium. Materials Science and Engineering C, 2018, 91, 125-134.	3.8	14

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37	Recycling of Spent Indium–Gallium–Zinc Oxide Based on Molten Salt Electrolysis. ACS Sustainable Chemistry and Engineering, 2020, 8, 16296-16303.	3.2	14
38	Ultrafine AlN synthesis by alumina carbothermal reduction under vacuum: Mechanism and experimental study. Powder Technology, 2021, 377, 843-846.	2.1	14
39	Calculation and Characterization of Silicon-Boron Phases in Metallurgical Grade Silicon. Silicon, 2012, 4, 289-295.	1.8	13
40	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
41	Fabrication of Ag2S electrode for CO2 reduction in organic media. lonics, 2019, 25, 1921-1927.	1.2	13
42	Advances in Molten Salt Synthesis of Nonâ€oxide Materials. Energy and Environmental Materials, 2023, 6, .	7.3	13
43	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
44	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
45	Promoting Homogeneous Interfacial Li ⁺ Migration by Using a Facile N ₂ Plasma Strategy for Allâ€5olidâ€6tate Lithiumâ€Metal Batteries. Advanced Functional Materials, 2022, 32, .	7.8	11
46	Effect of CH3COOH on Hydrometallurgical Purification of Metallurgical-Grade Silicon Using HCl-HF Leaching. Jom, 2018, 70, 527-532.	0.9	10
47	A Novel Method of Fabricating Al-V Intermetallic Alloy through Electrode Heating. Metals, 2019, 9, 558.	1.0	10
48	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
49	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
50	Carbothermic reduction of alumina with carbon in vacuum. Journal of Central South University, 2012, 19, 1813-1816.	1.2	7
51	Influence of Dy3+ coactivator on the luminescence properties of Gd2O2S:Tb3+ phosphor. Journal of Applied Physics, 2012, 111, 023101.	1.1	7
52	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
53	Dynamic Simulation and Experimental Study of Magnesia Formed Between Magnesium Vapor and CO Under Vacuum. Jom, 2019, 71, 2791-2797.	0.9	7
54	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

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55	Molecular dynamics simulation on diffusion properties of Pb-Mg alloy. Science China Technological Sciences, 2010, 53, 2328-2332.	2.0	6
56	Investigation of chlorination process in aluminum production by carbothermic-chlorination reduction of Al2O3 under vacuum. Vacuum, 2012, 86, 1113-1117.	1.6	6
57	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
58	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
59	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
60	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
61	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
62	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
63	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
64	Experimental Investigation of Molybdenum Disulfide Purification Through Vacuum Distillation. Journal of Sustainable Metallurgy, 2020, 6, 419-427.	1.1	5
65	Preparation of High-Purity Tin by Zone Melting. Russian Journal of Non-Ferrous Metals, 2020, 61, 9-20.	0.2	5
66	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
67	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
68	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
69	Molecular dynamics simulation on thermodynamic properties of Pb-Ag alloys. Rare Metals, 2010, 29, 323-326.	3.6	4
70	Silica behavior in the alumina carbothermic reduction-chlorination process. Jom, 2011, 63, 116-119.	0.9	4
71	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
72	Effect of CaCl2 on Microstructure of Calciothermic Reduction Products of Ti2O3 to Prepare Porous Titanium. Metals, 2018, 8, 698.	1.0	4

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73	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
74	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
75	Electrode heating effects on preparation of Al-65V alloy. Journal of Central South University, 2020, 27, 1-9.	1.2	4
76	Vacuum Gasification-Directional Condensation for Separation of Tellurium from Lead Anode Slime. Metals, 2021, 11, 1535.	1.0	4
77	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
78	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
79	(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
80	Ab Initio Molecular Dynamics Studies of Pb m Sb n (mÂ+ÂnÂ≤9) Alloy Clusters. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 4905-4913.	1.1	3
81	Cooperative upconversion luminescence of Er3+ in Gd2O3â°'xSx phosphor. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 190, 312-317.	2.0	3
82	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
83	Theoretical Study on Growth Mechanism of AlnNn (n = 2–9) Clusters. Russian Journal of Physical Chemistry A, 2020, 94, 1456-1463.	0.1	3
84	Preparation of Antimony Sulfide and Enrichment of Gold by Sulfuration–Volatilization from Electrodeposited Antimony. Minerals (Basel, Switzerland), 2022, 12, 264.	0.8	3
85	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
86	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
87	A secret handshake scheme for mobile-hierarchy architecture based underground emergency response system. , 2015, , .		2
88	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
89	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
90	Vacuum separation of zinc-silver alloy: Measurement and modeling of vapor-liquid equilibrium. Vacuum, 2021, 189, 110245.	1.6	2

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91	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
92	Lattice Boltzmann Method Modeling of Flow Structures and Level Fluctuations in a Continuous Casting Process. ACS Omega, 2019, 4, 13131-13142.	1.6	1
93	Vacuum decomposition thermodynamics and experiments of recycled lead carbonate from waste lead acid battery. Thermal Science, 2021, 25, 25-38.	0.5	1
94	Hydrothermal synthesis and enhanced photocatalytic activity of Na0.5Gd0.5MoO4. Journal of Materials Science, 2021, 56, 16612-16622.	1.7	1
95	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
96	Application of MIVM for Sn-Ag and Sn-In Alloys in Vacuum Distillation. , 0, , 367-374.		0
97	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
98	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
99	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
100	Mechanism of Carbothermic Reduction of Magnesia and Reverse Reaction. , 0, , 511-516.		0
101	Vacuum Distillation Refining of Crude Tin - Thermodynamics Analysis and Experiments on the Removal of Arsenic from the Crude Tin. , 0, , 223-230.		0
102	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
103	Phase Relations in the CaO-B2O3-Sc2O3 Ternary System. Journal of Phase Equilibria and Diffusion, 2022, 43, 98-108.	0.5	0