

Lijun Liu

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5368946/lijun-liu-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

118
papers

1,750
citations

23
h-index

37
g-index

128
ext. papers

2,082
ext. citations

3.3
avg, IF

4.97
L-index

#	Paper	IF	Citations
118	Renin-Angiotensin System Inhibitors and Kidney and Cardiovascular Outcomes in Patients With CKD: A Bayesian Network Meta-analysis of Randomized Clinical Trials. <i>American Journal of Kidney Diseases</i> , 2016 , 67, 728-41	7.4	159
117	Partly three-dimensional global modeling of a silicon Czochralski furnace. I. Principles, formulation and implementation of the model. <i>International Journal of Heat and Mass Transfer</i> , 2005 , 48, 4481-4491	4.9	95
116	Influence of an insulation partition on a seeded directional solidification process for quasi-single crystalline silicon ingot for high-efficiency solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 100, 231-238	6.4	78
115	Carbon concentration and particle precipitation during directional solidification of multicrystalline silicon for solar cells. <i>Journal of Crystal Growth</i> , 2008 , 310, 2192-2197	1.6	78
114	Thermodynamical analysis of oxygen incorporation from a quartz crucible during solidification of multicrystalline silicon for solar cell. <i>Journal of Crystal Growth</i> , 2008 , 310, 4666-4671	1.6	59
113	Comparative Effectiveness of 12 Treatment Strategies for Preventing Contrast-Induced Acute Kidney Injury: A Systematic Review and Bayesian Network Meta-analysis. <i>American Journal of Kidney Diseases</i> , 2017 , 69, 69-77	7.4	58
112	Dynamic simulation of temperature and iron distributions in a casting process for crystalline silicon solar cells with a global model. <i>Journal of Crystal Growth</i> , 2006 , 292, 515-518	1.6	51
111	Local design of the hot-zone in an industrial seeded directional solidification furnace for quasi-single crystalline silicon ingots. <i>Journal of Crystal Growth</i> , 2012 , 358, 5-11	1.6	48
110	Analysis of oxygen incorporation in unidirectionally solidified multicrystalline silicon for solar cells. <i>Journal of Crystal Growth</i> , 2008 , 310, 2204-2208	1.6	43
109	Numerical analysis of the influence of tilt of crucibles on interface shape and fields of temperature and velocity in the unidirectional solidification process. <i>Journal of Crystal Growth</i> , 2008 , 310, 1034-1039	1.6	38
108	Effects of argon flow on impurities transport in a directional solidification furnace for silicon solar cells. <i>Journal of Crystal Growth</i> , 2011 , 318, 304-312	1.6	36
107	Effects of argon flow on heat transfer in a directional solidification process for silicon solar cells. <i>Journal of Crystal Growth</i> , 2011 , 318, 298-303	1.6	36
106	Controlling solidification front shape and thermal stress in growing quasi-single-crystal silicon ingots: Process design for seeded directional solidification. <i>Applied Thermal Engineering</i> , 2015 , 91, 225-233	5.8	34
105	Investigation of oxygen distribution in electromagnetic CZBi melts with a transverse magnetic field using 3D global modeling. <i>Journal of Crystal Growth</i> , 2007 , 299, 48-58	1.6	34
104	Risk factors for pregnancy outcomes in patients with IgA nephropathy: a matched cohort study. <i>American Journal of Kidney Diseases</i> , 2014 , 64, 730-6	7.4	33
103	Partly three-dimensional global modeling of a silicon Czochralski furnace. II. Model application: Analysis of a silicon Czochralski furnace in a transverse magnetic field. <i>International Journal of Heat and Mass Transfer</i> , 2005 , 48, 4492-4497	4.9	33
102	Numerical analysis of influence of crucible shape on interface shape in a unidirectional solidification process. <i>Journal of Crystal Growth</i> , 2008 , 310, 1142-1147	1.6	31

101	An analysis of temperature distribution near the melt-crystal interface in silicon Czochralski growth with a transverse magnetic field. <i>Journal of Crystal Growth</i> , 2005 , 282, 49-59	1.6	29
100	Heat transfer in an industrial directional solidification furnace with multi-heaters for silicon ingots. <i>Journal of Crystal Growth</i> , 2014 , 385, 9-15	1.6	28
99	Influence of cytochrome c on apoptosis induced by Anagrapha (Syngrapha) falcifera multiple nuclear polyhedrosis virus (AFMNPV) in insect Spodoptera litura cells. <i>Cell Biology International</i> , 2007 , 31, 996-1001	4.5	28
98	Effects of crystal rotation rate on the melt-crystal interface of a CZ-Si crystal growth in a transverse magnetic field. <i>Journal of Crystal Growth</i> , 2008 , 310, 306-312	1.6	28
97	Numerical study of heat transfer during sapphire crystal growth by heat exchanger method. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 72, 452-460	4.9	26
96	Three-dimensional global modeling of a unidirectional solidification furnace with square crucibles. <i>Journal of Crystal Growth</i> , 2007 , 303, 165-169	1.6	25
95	Effects of argon flow on melt convection and interface shape in a directional solidification process for an industrial-size solar silicon ingot. <i>Journal of Crystal Growth</i> , 2012 , 360, 87-91	1.6	23
94	Effects of cusp-shaped magnetic field on melt convection and oxygen transport in an industrial CZ-Si crystal growth. <i>Journal of Crystal Growth</i> , 2012 , 354, 101-108	1.6	22
93	Role of marangoni tension effects on the melt convection in directional solidification process for multi-crystalline silicon ingots. <i>Journal of Crystal Growth</i> , 2012 , 346, 40-44	1.6	21
92	Influencing factors on the formation of the low minority carrier lifetime zone at the bottom of seed-assisted cast ingots. <i>Journal of Crystal Growth</i> , 2014 , 402, 65-70	1.6	20
91	Pregnancy and Kidney Outcomes in Patients With IgA Nephropathy: A Cohort Study. <i>American Journal of Kidney Diseases</i> , 2017 , 70, 262-269	7.4	19
90	A study on electrical performance of N-type bifacial PV modules. <i>Solar Energy</i> , 2016 , 137, 129-133	6.8	19
89	Optimization via simulation of a seeded directional solidification process for quasi-single crystalline silicon ingots by insulation partition design. <i>Journal of Crystal Growth</i> , 2014 , 398, 5-12	1.6	19
88	A numerical method for simulation of attached cavitation flows. <i>International Journal for Numerical Methods in Fluids</i> , 2006 , 52, 639-658	1.9	19
87	Plasma Soluble Urokinase Receptor Level Is Correlated with Podocytes Damage in Patients with IgA Nephropathy. <i>PLoS ONE</i> , 2015 , 10, e0132869	3.7	18
86	Global simulation of coupled oxygen and carbon transport in an industrial directional solidification furnace for crystalline silicon ingots: Effect of crucible cover coating. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 108, 2355-2364	4.9	17
85	Improved seeded directional solidification process for producing high-efficiency multi-crystalline silicon ingots for solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 130, 118-123	6.4	17
84	Numerical study of the effects of cusp-shaped magnetic fields and thermal conductivity on the melt-crystal interface in CZ crystal growth. <i>Crystal Research and Technology</i> , 2003 , 38, 716-725	1.3	17

83	3D global analysis of CZ-Si growth in a transverse magnetic field with rotating crucible and crystal. <i>Crystal Research and Technology</i> , 2005 , 40, 347-351	1.3	17
82	Movable partition designed for the seed-assisted silicon ingot casting in directional solidification process. <i>Crystal Research and Technology</i> , 2014 , 49, 405-413	1.3	16
81	Effects of static magnetic fields on thermal fluctuations in the melt of industrial CZ-Si crystal growth. <i>Journal of Crystal Growth</i> , 2012 , 360, 38-42	1.6	16
80	Distribution and propagation of dislocation defects in quasi-single crystalline silicon ingots cast by the directional solidification method. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 132, 1-5	6.4	15
79	Numerical study of melt flow under the influence of heater-generating magnetic field during directional solidification of silicon ingots. <i>Journal of Crystal Growth</i> , 2018 , 484, 78-85	1.6	15
78	Optimization of the controlling recipe in quasi-single crystalline silicon growth using artificial neural network and genetic algorithm. <i>Journal of Crystal Growth</i> , 2019 , 522, 195-203	1.6	15
77	Large-eddy simulation of melt turbulence in a 300-mm CzSi crystal growth. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 53-60	4.9	13
76	Quality evaluation of multi-crystalline silicon ingots produced in a directional solidification furnace with different theories. <i>Journal of Crystal Growth</i> , 2014 , 401, 296-301	1.6	12
75	Global analysis of effects of magnetic field configuration on melt-crystal interface shape and melt flow in CZ-Si crystal growth. <i>Journal of Crystal Growth</i> , 2005 , 275, e2135-e2139	1.6	12
74	Urinary CXCL1: a novel predictor of IgA nephropathy progression. <i>PLoS ONE</i> , 2015 , 10, e0119033	3.7	12
73	Control of heat transfer in continuous-feeding Czochralski-silicon crystal growth with a water-cooled jacket. <i>Journal of Crystal Growth</i> , 2017 , 458, 31-36	1.6	11
72	Revealing the Various Electrochemical Behaviors of Sn4P3 Binary Alloy Anodes in Alkali Metal Ion Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2102047	15.6	11
71	Global simulations of heat transfer in directional solidification of multi-crystalline silicon ingots under a traveling magnetic field. <i>Journal of Crystal Growth</i> , 2014 , 401, 285-290	1.6	10
70	Performance of solar cells fabricated from cast quasi-single crystalline silicon ingots. <i>Solar Energy</i> , 2015 , 111, 218-224	6.8	9
69	Parameter study of traveling magnetic field for control of melt convection in directional solidification of crystalline silicon ingots. <i>International Journal of Heat and Fluid Flow</i> , 2018 , 71, 55-67	2.4	8
68	Influence of bowl-like nanostructures on the efficiency and module power of black silicon solar cells. <i>Solar Energy</i> , 2019 , 189, 67-73	6.8	8
67	Analysis of local segregation of impurities at a silicon melt-crystal interface during crystal growth in transverse magnetic field-applied Czochralski method. <i>Journal of Crystal Growth</i> , 2009 , 311, 2313-2316	1.6	8
66	In Situ Fabrication of Freestanding Single-Atom-Thick 2D Metal/Metallene and 2D Metal/ Metallene Oxide Membranes: Recent Developments. <i>Advanced Science</i> , 2021 , 8, e2100619	13.6	8

65	Effect of Crucible Location on Heat Transfer in Sapphire Crystal Growth by Heat Exchanger Method. <i>Heat Transfer Engineering</i> , 2016 , 37, 332-340	1.7	7
64	An enthalpy method based on fixed-grid for quasi-steady modeling of solidification/melting processes of pure materials. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 108, 1383-1392	4.9	7
63	A local cluster-structure-dependent drag model for Eulerian simulation of gas-solid flow in CFB risers. <i>Chemical Engineering Journal</i> , 2019 , 368, 687-699	14.7	7
62	Iron contamination in cast quasi-single crystalline silicon ingots. <i>Journal of Applied Physics</i> , 2014 , 115, 174903	2.5	7
61	Numerical investigation of the effect of rotation on the oscillatory thermocapillary convection and dopant transport in a silicon liquid bridge. <i>Journal of Crystal Growth</i> , 2019 , 523, 125149	1.6	6
60	Effects of furnace pressure on oxygen and carbon coupled transport in an industrial directional solidification furnace for crystalline silicon ingots. <i>Journal of Crystal Growth</i> , 2017 , 468, 933-938	1.6	6
59	Development and Application of a Structured/Unstructured Combined Mesh Scheme for Global Modeling of a Directional Solidification Process of Silicon. <i>ECS Transactions</i> , 2010 , 27, 1047-1052	1	6
58	Optimization of the melt/crystal interface shape and oxygen concentration during the Czochralski silicon crystal growth process using an artificial neural network and a genetic algorithm. <i>Journal of Crystal Growth</i> , 2020 , 548, 125828	1.6	6
57	Neutrophil-to-lymphocyte ratio as an independent inflammatory indicator of poor prognosis in IgA nephropathy. <i>International Immunopharmacology</i> , 2020 , 87, 106811	5.8	6
56	Thermocapillary instabilities in half zone liquid bridges of low Prandtl fluid with non-equal disks under microgravity. <i>Journal of Crystal Growth</i> , 2021 , 560-561, 126063	1.6	6
55	In-situ observations of novel single-atom thick 2D tin membranes embedded in graphene. <i>Nano Research</i> , 2021 , 14, 747-753	10	6
54	Real-time prediction of crystal/melt interface shape during Czochralski crystal growth. <i>CrystEngComm</i> , 2018 , 20, 6925-6931	3.3	6
53	Enhancement of heat transfer in Czochralski growth of silicon crystals with a chemical cooling technique. <i>Journal of Crystal Growth</i> , 2017 , 468, 894-898	1.6	5
52	Genetic polymorphisms in MTR are associated with non-syndromic congenital heart disease from a family-based case-control study in the Chinese population. <i>Scientific Reports</i> , 2019 , 9, 5065	4.9	5
51	Effects of crucible cover on heat transfer during sapphire crystal growth by heat exchanger method. <i>Journal of Crystal Growth</i> , 2014 , 404, 130-135	1.6	5
50	3D numerical investigation and improvement to the design of the thermal field before seeding in a multi-die edge-defined film-fed growth system for sapphire ribbon crystals. <i>Journal of Crystal Growth</i> , 2014 , 385, 49-54	1.6	5
49	Control of the Gas Flow in an Industrial Directional Solidification Furnace for Production of High Purity Multicrystalline Silicon Ingots. <i>International Journal of Photoenergy</i> , 2015 , 2015, 1-10	2.1	5
48	Response surface methodology for optimization of copper leaching from a low-grade flotation middling. <i>Mining, Metallurgy and Exploration</i> , 2011 , 28, 139-145	1.1	5

47	Numerical analysis of continuous charge of lithium niobate in a double-crucible Czochralski system using the accelerated crucible rotation technique. <i>Journal of Crystal Growth</i> , 2004 , 266, 109-116	1.6	5
46	Computational study of formation mechanism of impurity distribution in a silicon crystal during solidification. <i>Journal of Crystal Growth</i> , 2004 , 265, 399-409	1.6	5
45	Temperature and thermal stress evolutions in sapphire crystal during the cooling process by heat exchanger method. <i>Journal of Crystal Growth</i> , 2017 , 474, 37-42	1.6	4
44	Carbon solubility in liquid silicon: A computational analysis across empirical potentials. <i>Journal of Chemical Physics</i> , 2019 , 150, 144503	3.9	4
43	Atomistic simulations of carbon diffusion and segregation in liquid silicon. <i>Journal of Applied Physics</i> , 2017 , 122, 225705	2.5	4
42	Implication of urinary complement factor H in the progression of immunoglobulin A nephropathy. <i>PLoS ONE</i> , 2015 , 10, e0126812	3.7	4
41	Effects of shape of an inner crucible on convection of lithium niobate melt in a double-crucible Czochralski process using the accelerated crucible rotation technique. <i>Journal of Crystal Growth</i> , 2004 , 267, 574-582	1.6	4
40	CONTROL OF OXYGEN TRANSPORT IN THE MELT OF A CZOCHRALSKI-SILICON CRYSTAL GROWTH. <i>Journal of Enhanced Heat Transfer</i> , 2012 , 19, 505-514	1.7	4
39	Control of Oxygen Impurities in a Continuous-Feeding Czochralski-Silicon Crystal Growth by the Double-Crucible Method. <i>Crystals</i> , 2021 , 11, 264	2.3	4
38	Control of melt-crystal interface shape during sapphire crystal growth by heat exchanger method. <i>Journal of Crystal Growth</i> , 2017 , 474, 31-36	1.6	3
37	The influence mechanism of melt flow instability on the temperature fluctuation on the crystal/melt interface during Czochralski silicon crystal growth. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 142, 118463	4.9	3
36	Toward stable lithium-ion batteries: Accelerating the transfer and alloying reactions of Sn-based anodes via coordination atom regulation and carbon hybridization. <i>Journal of Power Sources</i> , 2022 , 519, 230778	8.9	3
35	Control of Melt Flow and Oxygen Distribution Using Traveling Magnetic Field during Directional Solidification of Silicon Ingots. <i>Silicon</i> , 2020 , 12, 2395-2404	2.4	3
34	Effect of Argon Flow on Oxygen and Carbon Coupled Transport in an Industrial Directional Solidification Furnace for Crystalline Silicon Ingots. <i>Crystals</i> , 2021 , 11, 421	2.3	3
33	3D numerical design of the thermal field before seeding in an edge-defined film-fed growth system for EGa_2O_3 ribbon crystals. <i>Journal of Crystal Growth</i> , 2019 , 506, 83-90	1.6	3
32	Numerical simulation of particle growth process in a polysilicon fluidized bed reactor. <i>Particulate Science and Technology</i> , 2020 , 38, 261-270	2	3
31	Oscillatory thermocapillary convection in deformed half zone liquid bridges of low Prandtl number fluids. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 127, 105499	5.8	3
30	Air distribution system suitable for tea brick fermentation process [Upward vertical wall attached ventilation. <i>Biosystems Engineering</i> , 2020 , 198, 235-247	4.8	2

29	Role of Internal Radiation in Oxide Crystal Growth by Heat Exchanger Method. <i>Crystals</i> , 2017 , 7, 18	2.3	2
28	Numerical investigation of the effect of a crucible cover on crystal growth in the industrial directional solidification process for silicon ingots. <i>Journal of Crystal Growth</i> , 2014 , 401, 291-295	1.6	2
27	Preservation of Seed Crystals in Feedstock Melting for Cast Quasi-Single Crystalline Silicon Ingots. <i>International Journal of Photoenergy</i> , 2013 , 2013, 1-7	2.1	2
26	Marangoni Convection in Crystal Growth 2010 , 413-464		2
25	Numerical prediction of the hydrodynamic performance of a centrifugal pump in cavitating flows. <i>Communications in Numerical Methods in Engineering</i> , 2006 , 23, 363-384		2
24	Diffusion coefficients of carbon, oxygen and nitrogen in silicon melt. <i>Journal of Crystal Growth</i> , 2022 , 580, 126476	1.6	2
23	Influence of Crucible Thermal Conductivity on Crystal Growth in an Industrial Directional Solidification Process for Silicon Ingots. <i>International Journal of Photoenergy</i> , 2016 , 2016, 1-9	2.1	2
22	Effect of cusp magnetic field on the turbulent melt flow and crystal/melt interface during large-size Czochralski silicon crystal growth. <i>International Journal of Thermal Sciences</i> , 2021 , 170, 107137 ^{4.1}		2
21	Optimisation of data locality in energy calculations for large-scale molecular dynamics simulations. <i>Molecular Simulation</i> , 2017 , 43, 284-290	2	1
20	Morphotropic phase boundary-like properties in a ferroelectric-paraelectric nanocomposite. <i>Journal of Applied Physics</i> , 2019 , 126, 124102	2.5	1
19	Numerical simulation of bubbling fluidization using a local bubble-structure-dependent drag model. <i>Canadian Journal of Chemical Engineering</i> , 2019 , 97, 1741-1755	2.3	1
18	Investigation of heat transfer and thermal stress during sapphire crystal growth process by heat exchanger method: Evaluation of radiation models. <i>Journal of Crystal Growth</i> , 2017 , 468, 909-913	1.6	1
17	A piecewise lookup table for calculating nonbonded pairwise atomic interactions. <i>Journal of Molecular Modeling</i> , 2015 , 21, 288	2	1
16	Reusability of contaminated seed crystal for cast quasi-single crystalline silicon ingots. <i>Journal of Crystal Growth</i> , 2015 , 416, 159-163	1.6	1
15	Synthesis and Characterization of BaCO ₃ Nanoparticles with Different Morphologies by Microwave Homogenous Precipitation. <i>High Temperature Materials and Processes</i> , 2013 , 32, 47-50	0.9	1
14	Modeling and simulation of Si crystal growth from melt. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 645-652		1
13	Research on Prediction of the Stability of Partially Stabilized Zirconia Prepared by Microwave Heating Using Levenberg Marquardt-Back Propagation Neural Network769-778		0
12	Effect of Internal Radiation on Heat Transfer during Ti:sapphire Crystal Growth Process by Heat Exchanger Method. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 170, 121000	4.9	0

11	A general approach for calculating melt-solid impurity segregation coefficients based on thermodynamic integration. <i>Journal of Applied Physics</i> , 2021 , 130, 025702	2.5	○
10	On the Catalytic Activity of Sn Monomers and Dimers at Graphene Edges and the Synchronized Edge Dependence of Diffusing Atoms in Sn Dimers. <i>Advanced Functional Materials</i> , 2021 , 31, 2104340	15.6	○
9	Atomic transport properties of silicon melt at high temperature. <i>Journal of Crystal Growth</i> , 2022 , 590, 126701	1.6	○
8	Assessing the EDIP potential for atomic simulation of carbon diffusion, segregation and solubility in silicon melt. <i>Journal of Crystal Growth</i> , 2020 , 546, 125785	1.6	
7	Investigation on a Microwave High-Temperature Air Heat Exchanger 2011 , 119-124		
6	Preparation of Partially Stabilized Zirconia and Interface Structure Analysis 2011 , 185-189		
5	Computer modeling of crystal growth of silicon for solar cells. <i>Frontiers in Energy</i> , 2011 , 5, 305	2.6	
4	Enhancement of the diffusion of oxygen and boron in silicon crystals under irradiation of infrared laser light. <i>Journal of Applied Physics</i> , 2006 , 99, 073103	2.5	
3	A comparative investigation of the cooling effect of multi-layer arrangements of panels in a ground-mounted photovoltaic system. <i>Journal of Renewable and Sustainable Energy</i> , 2021 , 13, 053501	2.5	
2	The effect of immunosuppressive therapy in patients with fibrinoid necrosis lesions in a large cohort of patients with IgA nephropathy. <i>Journal of Nephrology</i> , 2021 , 1	4.8	
1	A new form of impurity cluster in casting quasi-single crystalline silicon. <i>Journal of Crystal Growth</i> , 2022 , 590, 126704	1.6	