

# Yanlu Li

## List of Publications by Year in descending order

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51  
papers

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citations

516215

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docs citations

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times ranked

1135  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable Ultrafast Nonlinear Optical Properties of Graphene/MoS <sub>2</sub> van der Waals Heterostructures and Their Application in Solid-State Bulk Lasers. ACS Nano, 2018, 12, 11376-11385.	7.3	113
2	Metal-free boron carbonitride with tunable boron Lewis acid sites for enhanced nitrogen electroreduction to ammonia. Applied Catalysis B: Environmental, 2021, 283, 119622.	10.8	108
3	Intercalation of organics into layered structures enables superior interface compatibility and fast charge diffusion for dendrite-free Zn anodes. Energy and Environmental Science, 2022, 15, 1682-1693.	15.6	105
4	Transition-Metal Oxynitride: A Facile Strategy for Improving Electrochemical Capacitor Storage. Advanced Materials, 2019, 31, e1806088.	11.1	91
5	Mesoporous Cu <sub>2-x</sub> Se nanocrystals as an ultrahigh-rate and long-lifespan anode material for sodium-ion batteries. Energy Storage Materials, 2019, 22, 275-283.	9.5	88
6	Weaker Interactions in Zn <sup>2+</sup> and Organic Ion-Intercalated Vanadium Oxide toward Highly Reversible Zinc-Ion Batteries. Energy and Environmental Materials, 2021, 4, 620-630.	7.3	55
7	Oxygen Vacancy Modulation of Bimetallic Oxynitride Anodes toward Advanced Li-Ion Capacitors. Advanced Functional Materials, 2020, 30, 2000350.	7.8	48
8	Defect complexes in congruent $\text{LiNbO}_3$ and their optical signatures. Physical Review B, 2015, 91, .	1.1	45
9	Shuttle confinement of lithium polysulfides in borocarbonitride nanotubes with enhanced performance for lithium-sulfur batteries. Journal of Materials Chemistry A, 2020, 8, 296-304.	5.2	40
10	Intrinsic $\text{LiNbO}_3$ point defects from hybrid density functional calculations. Physical Review B, 2014, 89, .	1.1	36
11	Modeling intrinsic defects in $\text{LiNbO}_3$ within the Slater-Janak transition state model. Journal of Chemical Physics, 2014, 140, 234113.	1.2	33
12	Revisit sodium-storage mechanism of metal selenides in ether-based electrolytes: Electrochemically-driven Cu permeation to the formation of Cu <sub>2-x</sub> Se. Energy Storage Materials, 2021, 40, 189-196.	9.5	33
13	Comparison of hydrogen vacancies in KDP and ADP crystals: a combination of density functional theory calculations and experiment. Physical Chemistry Chemical Physics, 2019, 21, 6186-6197.	1.3	29
14	Microscopic Properties of Mg in Li and Nb Sites of $\text{LiNbO}_3$ by First-Principle Hybrid Functional: Formation and Related Optical Properties. Journal of Physical Chemistry C, 2017, 121, 8968-8975.	1.5	21
15	Hybrid density functional theory insight into the stability and microscopic properties of Bi-doped $\text{LiNbO}_3$ : Lone electron pair effect. Physical Review B, 2017, 96, .	1.1	20
16	Boron Carbonitride Lithium-Ion Capacitors with an Electrostatically Expanded Operating Voltage Window. ACS Applied Materials & Interfaces, 2020, 12, 47425-47434.	4.0	20
17	Oxygen Vacancy-Modified B/N-Codoped ZnGa <sub>2</sub> O <sub>4</sub> Nanospheres with Enhanced Photocatalytic Hydrogen Evolution Performance in the Absence of a Pt Cocatalyst. Journal of Physical Chemistry C, 2018, 122, 10737-10748.	1.5	19
18	Microstructure and defect characteristics of lithium niobate with different Li concentrations. Inorganic Chemistry Frontiers, 2021, 8, 4006-4013.	3.0	18

#	ARTICLE	IF	CITATIONS
19	Structural stress and extra optical absorption induced by the intrinsic cation defects in KDP and ADP crystals: a theoretical study. <i>CrystEngComm</i> , 2020, 22, 1962-1969.	1.3	17
20	Graphene Nucleation Preference at CuO Defects Rather Than Cu <sub>2</sub> O on Cu(111): A Combination of DFT Calculation and Experiment. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 43156-43165.	4.0	16
21	Comparison of oxygen vacancy and interstitial oxygen in KDP and ADP crystals from density functional theory calculations. <i>Computational Materials Science</i> , 2020, 182, 109783.	1.4	16
22	Structural stability and electro-elastic property of YCOB crystal annealed in harsh environment. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	15
23	Electrical conduction mechanism of rare-earth calcium oxyborate high temperature piezoelectric crystals. <i>Acta Materialia</i> , 2020, 183, 165-171.	3.8	14
24	Point Defects and Defect-Induced Optical Response in Ternary LiInSe <sub>2</sub> Crystals: First-Principles Insight. <i>Journal of Physical Chemistry C</i> , 2015, 119, 29123-29131.	1.5	12
25	Charge-neutral epitaxial graphene on 6H-SiC(0001) via FeSi intercalation. <i>Carbon</i> , 2020, 156, 187-193.	5.4	12
26	Roles of CuO and Cu <sub>2</sub> O in graphene growth on a copper substrate. <i>Applied Surface Science</i> , 2022, 576, 151812.	3.1	12
27	Stability and electronic structure of hydrogen vacancies in ADP: hybrid DFT with vdW correction. <i>RSC Advances</i> , 2018, 8, 6931-6939.	1.7	11
28	Hybrid density functional theory study of vanadium doping in stoichiometric and congruent LiNbO <sub>3</sub> . <i>Physical Review B</i> , 2019, 99, .		11
29	Preparation of bilayer graphene utilizing CuO as nucleation sites by CVD method. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 4495-4502.	1.1	10
30	Doping stability of nonphotorefractive ions in stoichiometric and congruent LiNbO <sub>3</sub> . <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 17477-17486.	1.3	9
31	Electrical properties of yttrium calcium oxyborate crystal annealed at high temperature and low oxygen partial pressure. <i>Journal of Materiomics</i> , 2019, 5, 363-371.	2.8	9
32	Critical Role of Water and Oxygen Defects in O Scission during CO <sub>2</sub> Reduction on Zn <sub>2</sub> GeO <sub>4</sub> (010). <i>Langmuir</i> , 2018, 34, 3742-3754.	1.6	8
33	Interaction between Bi Dopants and Intrinsic Defects in LiNbO <sub>3</sub> from Local and Hybrid Density Functional Theory Calculations. <i>Inorganic Chemistry</i> , 2019, 58, 3661-3669.	1.9	8
34	Growth, Optical, and Spectroscopic Properties of Pure and Nd <sup>3+</sup> -Doped GdSr <sub>3</sub> (PO <sub>4</sub> ) <sub>3</sub> Crystals with Disordered Structure. <i>Inorganic Chemistry</i> , 2022, 61, 170-177.	1.9	8
35	A Strategy To Prepare High-Quality Monocrystalline Graphene: Inducing Graphene Growth with Seeding Chemical Vapor Deposition and Its Mechanism. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 1306-1314.	4.0	7
36	Induced growth of quasi-free-standing graphene on SiC substrates. <i>RSC Advances</i> , 2019, 9, 32226-32231.	1.7	6

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37	Phase transition regulation and piezoelectric performance optimization of fresnoite crystals for high-temperature acceleration sensing. <i>Journal of Materials Chemistry C</i> , 2021, 10, 180-190.	2.7	6
38	High performance piezoelectric crystal cut designed using $\text{LiNbO}_3$ for high temperature acoustic emission sensing application. <i>CrystEngComm</i> , 2022, 24, 691-697.	1.3	6
39	Origin of Ferroelectric Modification: The Thermal Behavior of Dopant Ions. <i>Crystal Growth and Design</i> , 2018, 18, 4860-4863.	1.4	4
40	Effect of BN seeds on locating and promoting the initial nucleation of graphene on Cu substrate and its mechanism: A theoretical study. <i>Applied Surface Science</i> , 2020, 523, 146469.	3.1	4
41	Role of lone-pair electrons in determining the thermal transport behavior of $\text{LiAsS}_2$ : first-principles investigation. <i>CrystEngComm</i> , 2021, 23, 4109-4115.	1.3	4
42	Thermal properties and CW laser performances of pure and Nd doped $\text{Bi}_2\text{ZnB}_2\text{O}_7$ single crystals. <i>CrystEngComm</i> , 2018, 20, 7094-7099.	1.3	3
43	Theoretical prediction of eliminating the buffer layer and achieving charge neutrality for epitaxial graphene on $6\text{H-SiC}(0001)$ via boron compound intercalations. <i>Carbon</i> , 2020, 161, 323-330.	5.4	3
44	Double-centers of V,Ce-Codoped $\text{LiNbO}_3$ from Hybrid Density Functional Theory Calculations: Electron Trapping and Excitation between the Defect Levels. <i>Crystal Growth and Design</i> , 2020, 20, 2774-2780.	1.4	2
45	Abnormal lattice occupation of Mo and related polarons in $\text{LiNbO}_3$ : Hybrid density functional theory investigation. <i>Journal of Materiomics</i> , 2020, 6, 183-191.	2.8	2
46	Effect and Mechanism of Hydrogen-Assisted Sulfur Intercalation for Decoupling Graphene from $\text{Cu}(111)$ . <i>Journal of Materials Chemistry C</i> , 2021, 9, 10109-10120.	3.1	2
47	Origin of the abnormal reduction of the dielectric response for $\text{ReCOB}$ crystals and its mechanism: theoretical and experimental exploration. <i>Journal of Materials Chemistry C</i> , 2020, 8, 10109-10120.	2.7	1
48	Damage mechanism and electro-elastic stability of $\text{LiNbO}_3$ crystals irradiated with 6 MeV $\text{Xe}^{23+}$ . <i>RSC Advances</i> , 2020, 10, 21754-21759.	1.7	1
49	Effects of $\text{H}_2$ pre-etching on BN seed morphology and induced graphene synthesis on Cu substrate: A theoretical study. <i>Applied Surface Science</i> , 2021, 537, 148093.	3.1	1
50	Regulation of Electronic Structures to Boost Efficient Nitrogen Fixation: Synergistic Effects between Transition Metals and Boron Nanotubes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 12345-12355.	4.0	1
51	Pinning and Anharmonic Phonon Effect of Quasi-Free-Standing Bilayer Epitaxial Graphene on SiC. <i>Nanomaterials</i> , 2022, 12, 346.	1.9	0