Yanlu Li

List of Publications by Citations

49 papers	588 citations	13 h-index	22 g-index
51 ext. papers	852 ext. citations	7.8 avg, IF	4.29 L-index

#	Paper	IF	Citations
49	Tunable Ultrafast Nonlinear Optical Properties of Graphene/MoS van der Waals Heterostructures and Their Application in Solid-State Bulk Lasers. *ACS Nano*, **2018**, 12, 11376-11385	16.7	64
48	Transition-Metal Oxynitride: A Facile Strategy for Improving Electrochemical Capacitor Storage. *Advanced Materials*, **2019**, 31, e1806088	24	61
47	Mesoporous Cu2-xSe nanocrystals as an ultrahigh-rate and long-lifespan anode material for sodium-ion batteries. *Energy Storage Materials*, **2019**, 22, 275-283	19.4	43
46	Metal-free boron carbonitride with tunable boron Lewis acid sites for enhanced nitrogen electroreduction to ammonia. *Applied Catalysis B: Environmental*, **2021**, 283, 119622	21.8	41
45	Defect complexes in congruent LiNbO3 and their optical signatures. *Physical Review B*, **2015**, 91,	3.3	38
44	Intrinsic LiNbO3 point defects from hybrid density functional calculations. *Physical Review B*, **2014**, 89,	3.3	33
43	Modeling intrinsic defects in LiNbO3 within the Slater-Janak transition state model. *Journal of Chemical Physics*, **2014**, 140, 234113	3.9	29
42	Shuttle confinement of lithium polysulfides in borocarbonitride nanotubes with enhanced performance for lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2020**, 8, 296-304	13	26
41	Oxygen Vacancy Modulation of Bimetallic Oxynitride Anodes toward Advanced Li-Ion Capacitors. *Advanced Functional Materials*, **2020**, 30, 2000350	15.6	24
40	Weaker Interactions in Zn2+ and Organic Ion-pre-intercalated Vanadium Oxide toward Highly Reversible Zinc-ion Batteries. *Energy and Environmental Materials*, **2020**,	13	20
39	Oxygen Vacancy-Modified B-/N-Codoped ZnGa2O4 Nanospheres with Enhanced Photocatalytic Hydrogen Evolution Performance in the Absence of a Pt Cocatalyst. *Journal of Physical Chemistry C*, **2018**, 122, 10737-10748	3.8	16
38	Microscopic Properties of Mg in Li and Nb Sites of LiNbO3 by First-Principle Hybrid Functional: Formation and Related Optical Properties. *Journal of Physical Chemistry C*, **2017**, 121, 8968-8975	3.8	15
37	Hybrid density functional theory insight into the stability and microscopic properties of Bi-doped LiNbO3: Lone electron pair effect. *Physical Review B*, **2017**, 96,	3.3	14
36	Organics Intercalation into Layered Structures Enables Superior Interface Compatibility and Fast Charge Diffusion for Dendrite-Free Zn Anodes. *Energy and Environmental Science*,	35.4	13
35	Graphene Nucleation Preference at CuO Defects Rather Than CuO on Cu(111): A Combination of DFT Calculation and Experiment. *ACS Applied Materials & Interfaces*, **2018**, 10, 43156-43165	9.5	11
34	Revisit sodium-storage mechanism of metal selenides in ether-based electrolytes: Electrochemically-driven Cu permeation to the formation of Cu2-xSe. *Energy Storage Materials*, **2021**, 40, 189-196	19.4	11
33	Hybrid density functional theory study of vanadium doping in stoichiometric and congruent LiNbO3. *Physical Review B*, **2019**, 99,	3.3	10

32	Structural stability and electro-elastic property of YCOB crystal annealed in harsh environment. *Applied Physics Letters*, **2018**, 113, 122905	3.4	9
31	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	3.6	8
30	Interaction between Bi Dopants and Intrinsic Defects in LiNbO from Local and Hybrid Density Functional Theory Calculations. *Inorganic Chemistry*, **2019**, 58, 3661-3669	5.1	8
29	Stability and electronic structure of hydrogen vacancies in ADP: hybrid DFT with vdW correction.. *RSC Advances*, **2018**, 8, 6931-6939	3.7	8
28	Point Defects and Defect-Induced Optical Response in Ternary LiInSe2 Crystals: First-Principles Insight. *Journal of Physical Chemistry C*, **2015**, 119, 29123-29131	3.8	8
27	Boron Carbonitride Lithium-Ion Capacitors with an Electrostatically Expanded Operating Voltage Window. *ACS Applied Materials & Interfaces*, **2020**, 12, 47425-47434	9.5	8
26	Doping stability of nonphotorefractive ions in stoichiometric and congruent LiNbO. *Physical Chemistry Chemical Physics*, **2018**, 20, 17477-17486	3.6	8
25	Critical Role of Water and Oxygen Defects in C-O Scission during CO Reduction on ZnGeO(010). *Langmuir*, **2018**, 34, 3742-3754	4	7
24	Preparation of bilayer graphene utilizing CuO as nucleation sites by CVD method. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 4495-4502	2.1	7
23	Electrical properties of yttrium calcium oxyborate crystal annealed at high temperature and low oxygen partial pressure. *Journal of Materiomics*, **2019**, 5, 363-371	6.7	6
22	Charge-neutral epitaxial graphene on 6H-SiC(0001) via FeSi intercalation. *Carbon*, **2020**, 156, 187-193	10.4	6
21	Electrical conduction mechanism of rare-earth calcium oxyborate high temperature piezoelectric crystals. *Acta Materialia*, **2020**, 183, 165-171	8.4	4
20	Comparison of oxygen vacancy and interstitial oxygen in KDP and ADP crystals from density functional theory calculations. *Computational Materials Science*, **2020**, 182, 109783	3.2	3
19	Roles of CuO and Cu2O in graphene growth on a copper substrate. *Applied Surface Science*, **2021**, 576, 151812	6.7	3
18	A Strategy To Prepare High-Quality Monocrystalline Graphene: Inducing Graphene Growth with Seeding Chemical Vapor Deposition and Its Mechanism. *ACS Applied Materials & Interfaces*, **2020**, 12, 1306-1314	9.5	3
17	Structural stress and extra optical absorption induced by the intrinsic cation defects in KDP and ADP crystals: a theoretical study. *CrystEngComm*, **2020**, 22, 1962-1969	3.3	2
16	Abnormal lattice occupation of Mo and related polarons in LiNbO3: Hybrid density functional theory investigation. *Journal of Materiomics*, **2020**, 6, 183-191	6.7	2
15	Effect of BN seeds on locating and promoting the initial nucleation of graphene on Cu substrate and its mechanism: A theoretical study. *Applied Surface Science*, **2020**, 523, 146469	6.7	2

14	Origin of Ferroelectric Modification: The Thermal Behavior of Dopant Ions. *Crystal Growth and Design*, **2018**, 18, 4860-4863	3.5	2
13	Induced growth of quasi-free-standing graphene on SiC substrates.. *RSC Advances*, **2019**, 9, 32226-32231	3.7	2
12	Theoretical prediction of eliminating the buffer layer and achieving charge neutrality for epitaxial graphene on 6H-SiC(0001) via boron compound intercalations. *Carbon*, **2020**, 161, 323-330	10.4	2
11	Role of lone-pair electrons in determining the thermal transport behavior of LiAsS2: first-principles investigation. *CrystEngComm*, **2021**, 23, 4109-4115	3.3	2
10	Thermal properties and CW laser performances of pure and Nd doped Bi2ZnB2O7 single crystals. *CrystEngComm*, **2018**, 20, 7094-7099	3.3	2
9	Microstructure and defect characteristics of lithium niobate with different Li concentrations. *Inorganic Chemistry Frontiers*, **2021**, 8, 4006-4013	6.8	2
8	Damage mechanism and electro-elastic stability of LiNbO crystals irradiated with 6 MeV Xe.. *RSC Advances*, **2020**, 10, 21754-21759	3.7	1
7	Double-centers of V,Ce-codoped LiNbO3 from Hybrid Density Functional Theory Calculations: Electron Trapping and Excitation between the Defect Levels. *Crystal Growth and Design*, **2020**, 20, 2774-2780	3.5	1
6	Phase transition regulation and piezoelectric performance optimization of fresnoite crystals for high-temperature acceleration sensing. *Journal of Materials Chemistry C*, **2021**, 10, 180-190	7.1	1
5	High performance piezoelectric crystal cut designed using LiNbO3 for high temperature acoustic emission sensing application. *CrystEngComm*, **2022**, 24, 691-697	3.3	1
4	Growth, Optical, and Spectroscopic Properties of Pure and Nd-Doped GdSr(PO) Crystals with Disordered Structure. *Inorganic Chemistry*, **2021**,	5.1	1
3	Origin of the abnormal reduction of the dielectric response for ReCOB crystals and its mechanism: theoretical and experimental exploration. *Journal of Materials Chemistry C*, **2020**, 8, 10109-10120	7.1	0
2	Effects of H2 pre-etching on BN seed morphology and induced graphene synthesis on Cu substrate: A theoretical study. *Applied Surface Science*, **2021**, 537, 148093	6.7	0
1	Effect and Mechanism of Hydrogen-Assisted Sulfur Intercalation for Decoupling Graphene from Cu(1 1 1) Substrate: A First-Principles Study. *Applied Surface Science*, **2021**, 567, 150866	6.7	