

Yanlu Li

List of Publications by Year in Descending Order

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

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	High performance piezoelectric crystal cut designed using LiNbO ₃ for high temperature acoustic emission sensing application. <i>CrystEngComm</i> , 2022 , 24, 691-697	3.3	1
48	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	7.1	1
47	Roles of CuO and Cu ₂ O in graphene growth on a copper substrate. <i>Applied Surface Science</i> , 2021 , 576, 151812	6.7	3
46	Growth, Optical, and Spectroscopic Properties of Pure and Nd-Doped GdSr(PO) Crystals with Disordered Structure. <i>Inorganic Chemistry</i> , 2021 ,	5.1	1
45	Effects of 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	6.7	0
44	Metal-free boron carbonitride with tunable boron Lewis acid sites for enhanced nitrogen electroreduction to ammonia. <i>Applied Catalysis B: Environmental</i> , 2021 , 283, 119622	21.8	41
43	Role of lone-pair electrons in determining the thermal transport behavior of LiAsS ₂ : first-principles investigation. <i>CrystEngComm</i> , 2021 , 23, 4109-4115	3.3	2
42	Revisit sodium-storage mechanism of metal selenides in ether-based electrolytes: Electrochemically-driven Cu permeation to the formation of Cu ₂ -xSe. <i>Energy Storage Materials</i> , 2021 , 40, 189-196	19.4	11
41	Effect and Mechanism of Hydrogen-Assisted Sulfur Intercalation for Decoupling Graphene from Cu(1 1 1) Substrate: A First-Principles Study. <i>Applied Surface Science</i> , 2021 , 567, 150866	6.7	
40	Microstructure and defect characteristics of lithium niobate with different Li concentrations. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 4006-4013	6.8	2
39	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	3.2	3
38	Oxygen Vacancy Modulation of Bimetallic Oxynitride Anodes toward Advanced Li-Ion Capacitors. <i>Advanced Functional Materials</i> , 2020 , 30, 2000350	15.6	24
37	Damage mechanism and electro-elastic stability of LiNbO ₃ crystals irradiated with 6 MeV Xe.. <i>RSC Advances</i> , 2020 , 10, 21754-21759	3.7	1
36	Double-centers of V,Ce ^{IV} -doped 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	3.5	1
35	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	3.3	2
34	Abnormal lattice occupation of Mo and related polarons in LiNbO ₃ : Hybrid density functional theory investigation. <i>Journal of Materiomics</i> , 2020 , 6, 183-191	6.7	2
33	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	6.7	2

32	Electrical conduction mechanism of rare-earth calcium oxyborate high temperature piezoelectric crystals. <i>Acta Materialia</i> , 2020 , 183, 165-171	8.4	4
31	Shuttle confinement of lithium polysulfides in borocarbonitride nanotubes with enhanced performance for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 296-304	13	26
30	A Strategy To Prepare High-Quality Monocrystalline Graphene: Inducing Graphene Growth with Seeding Chemical Vapor Deposition and Its Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 1306-1314	9.5	3
29	Origin of the abnormal reduction of the dielectric response for ReCOB crystals and its mechanism: theoretical and experimental exploration. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 10109-10120	7.1	0
28	Weaker Interactions in Zn ²⁺ and Organic Ion-pre-intercalated Vanadium Oxide toward Highly Reversible Zinc-ion Batteries. <i>Energy and Environmental Materials</i> , 2020 ,	13	20
27	Boron Carbonitride Lithium-Ion Capacitors with an Electrostatically Expanded Operating Voltage Window. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 47425-47434	9.5	8
26	Charge-neutral epitaxial graphene on 6H-SiC(0001) via FeSi intercalation. <i>Carbon</i> , 2020 , 156, 187-193	10.4	6
25	Theoretical prediction of eliminating the buffer layer and achieving charge neutrality for epitaxial graphene on 6H-SiC(0001) via boron compound intercalations. <i>Carbon</i> , 2020 , 161, 323-330	10.4	2
24	Hybrid density functional theory study of vanadium doping in stoichiometric and congruent LiNbO ₃ . <i>Physical Review B</i> , 2019 , 99,	3.3	10
23	Comparison of hydrogen vacancies in KDP and ADP crystals: a combination of density functional theory calculations and experiment. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 6186-6197	3.6	8
22	Interaction between Bi Dopants and Intrinsic Defects in LiNbO from Local and Hybrid Density Functional Theory Calculations. <i>Inorganic Chemistry</i> , 2019 , 58, 3661-3669	5.1	8
21	Mesoporous Cu _{2-x} Se nanocrystals as an ultrahigh-rate and long-lifespan anode material for sodium-ion batteries. <i>Energy Storage Materials</i> , 2019 , 22, 275-283	19.4	43
20	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	6.7	6
19	Induced growth of quasi-free-standing graphene on SiC substrates.. <i>RSC Advances</i> , 2019 , 9, 32226-32231	3.7	2
18	Transition-Metal Oxynitride: A Facile Strategy for Improving Electrochemical Capacitor Storage. <i>Advanced Materials</i> , 2019 , 31, e1806088	24	61
17	Stability and electronic structure of hydrogen vacancies in ADP: hybrid DFT with vdW correction.. <i>RSC Advances</i> , 2018 , 8, 6931-6939	3.7	8
16	Critical Role of Water and Oxygen Defects in C-O Scission during CO Reduction on ZnGeO(010). <i>Langmuir</i> , 2018 , 34, 3742-3754	4	7
15	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	2.1	7

14	Oxygen Vacancy-Modified B-/N-Codoped ZnGa ₂ O ₄ Nanospheres with Enhanced Photocatalytic Hydrogen Evolution Performance in the Absence of a Pt Cocatalyst. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 10737-10748	3.8	16
13	Origin of Ferroelectric Modification: The Thermal Behavior of Dopant Ions. <i>Crystal Growth and Design</i> , 2018 , 18, 4860-4863	3.5	2
12	Thermal properties and CW laser performances of pure and Nd doped Bi ₂ ZnB ₂ O ₇ single crystals. <i>CrystEngComm</i> , 2018 , 20, 7094-7099	3.3	2
11	Graphene Nucleation Preference at CuO Defects Rather Than CuO on Cu(111): A Combination of DFT Calculation and Experiment. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43156-43165	9.5	11
10	Tunable Ultrafast Nonlinear Optical Properties of Graphene/MoS van der Waals Heterostructures and Their Application in Solid-State Bulk Lasers. <i>ACS Nano</i> , 2018 , 12, 11376-11385	16.7	64
9	Structural stability and electro-elastic property of YCOB crystal annealed in harsh environment. <i>Applied Physics Letters</i> , 2018 , 113, 122905	3.4	9
8	Doping stability of nonphotorefractive ions in stoichiometric and congruent LiNbO ₃ . <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 17477-17486	3.6	8
7	Microscopic Properties of Mg in Li and Nb Sites of LiNbO ₃ by First-Principle Hybrid Functional: Formation and Related Optical Properties. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 8968-8975	3.8	15
6	Hybrid density functional theory insight into the stability and microscopic properties of Bi-doped LiNbO ₃ : Lone electron pair effect. <i>Physical Review B</i> , 2017 , 96,	3.3	14
5	Defect complexes in congruent LiNbO ₃ and their optical signatures. <i>Physical Review B</i> , 2015 , 91,	3.3	38
4	Point Defects and Defect-Induced Optical Response in Ternary LiInSe ₂ Crystals: First-Principles Insight. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 29123-29131	3.8	8
3	Modeling intrinsic defects in LiNbO ₃ within the Slater-Janak transition state model. <i>Journal of Chemical Physics</i> , 2014 , 140, 234113	3.9	29
2	Intrinsic LiNbO ₃ point defects from hybrid density functional calculations. <i>Physical Review B</i> , 2014 , 89,	3.3	33
1	Organics Intercalation into Layered Structures Enables Superior Interface Compatibility and Fast Charge Diffusion for Dendrite-Free Zn Anodes. <i>Energy and Environmental Science</i> ,	35.4	13