

Chol-Jun Yu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2166402/publications.pdf>

Version: 2024-02-01

60
papers

1,347
citations

393982

19
h-index

377514

34
g-index

61
all docs

61
docs citations

61
times ranked

1903
citing authors

#	ARTICLE	IF	CITATIONS
19	Refined phase coexistence line between graphite and diamond from density-functional theory and van der Waals correction. <i>Physica B: Condensed Matter</i> , 2014, 434, 185-193.	1.3	20
20	Revealing the formation and electrochemical properties of bis(trifluoromethanesulfonyl)imide intercalated graphite with first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 14124-14132.	1.3	19
21	Electronic structure and photoabsorption property of pseudocubic perovskites $\text{CH}_3\text{NH}_3\text{PbX}_3$ (X = I, Br) including van der Waals interaction. <i>Journal of Materials Science</i> , 2016, 51, 9849-9854.	1.7	18
22	High Thermoelectric Performance in the Cubic Inorganic Cesium Iodide Perovskites CsBI_3 (B = Pb, Sn, and Ge) from First-Principles. <i>Journal of Physical Chemistry C</i> , 2021, 125, 6013-6019.	1.5	18
23	First-principles study of ferroelectricity induced by d hybridization in ferrimagnetic NiFe_2O_4 . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 3302-3306.	0.9	17
24	Ionic Diffusion and Electronic Transport in Eldfellite Na_xFeSO_4 Tj ETQq	1.5	17
25	Two-Dimensional Hybrid Composites of SnS_2 with Graphene and Graphene Oxide for Improving Sodium Storage: A First-Principles Study. <i>Inorganic Chemistry</i> , 2019, 58, 1433-1441.	1.9	17
26	Ab initio design of drug carriers for zoledronate guest molecule using phosphonated and sulfonated calix[4]arene and calix[4]resorcinarene host molecules. <i>Journal of Materials Science</i> , 2018, 53, 5125-5139.	1.7	14
27	Manifestation of the thermoelectric properties in Ge-based halide perovskites. <i>Physical Review Materials</i> , 2020, 4, .	0.9	14
28	Ab initio investigation of the adsorption of zoledronic acid molecule on hydroxyapatite (001) surface: an atomistic insight of bone protection. <i>Journal of Materials Science</i> , 2016, 51, 3125-3135.	1.7	13
29	Interfacial Enhancement of Photovoltaic Performance in $\text{MAPbI}_3/\text{CsPbI}_3$ Superlattice. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14679-14687.	4.0	13
30	First-principles study of mixed eldfellite compounds		

#	ARTICLE	IF	CITATIONS
37	Twofold rattling mode-induced ultralow thermal conductivity in vacancy-ordered double perovskite Cs ₂ Sn ₆ . Chemical Communications, 2022, 58, 4223-4226.	2.2	10
38	The maximum interbubble distance in relation to the radius of spherical stable nanobubble in liquid water: A molecular dynamics study. Fluid Phase Equilibria, 2019, 487, 45-51.	1.4	9
39	Influence of Metal-Ion Replacement on the Phase Stabilization of Cubic All-Inorganic Cesium Lead Halide Perovskites: an <i>Ab Initio</i> Thermodynamic Formalism for Solution-Processed Cation Doping. Journal of Physical Chemistry C, 2021, 125, 13195-13211.	1.5	9
40	Enhancing the Photocatalytic Hydrogen Evolution Performance of the CsPbI ₃ /MoS ₂ Heterostructure with Interfacial Defect Engineering. Journal of Physical Chemistry Letters, 2022, 13, 4007-4014.	2.1	9
41	First-principles study of organically modified Åmuscovite mica with ammonium (NH ₄ ⁺) or methylammonium (CH ₃ NH ₃ ⁺) ion. Journal of Materials Science, 2016, 51, 10806-10818.	1.7	8
42	Defect properties in Yb ³⁺ -doped CaF ₂ from first-principles calculations: a route to defect engineering for up- and down-conversion photoluminescence. Journal of Materials Chemistry C, 2019, 7, 15148-15152.	2.7	8
43	Mechanism of ultraviolet upconversion luminescence of Gd ³⁺ ions sensitized by Yb ³⁺ -clusters in CaF ₂ :Yb ³⁺ , Gd ³⁺ . Journal of Luminescence, 2018, 194, 72-74.	1.5	7
44	Formation and characterization of ceramic coating from alumino silicate mineral powders in the matrix of cement composite on the concrete wall. Materials Chemistry and Physics, 2019, 227, 211-218.	2.0	7
45	First-principles study of ethylene carbonate adsorption on prismatic hard carbon surface: An insight into solid-electrolyte interphase formation. Applied Surface Science, 2022, 573, 151495.	3.1	7
46	Metal phosphide CuP ₂ as a promising thermoelectric material: an insight from a first-principles study. New Journal of Chemistry, 2021, 45, 21569-21576.	1.4	7
47	Ab initio modeling of glass corrosion: Hydroxylation and chemisorption of oxalic acid at diopside and Åkermanite surfaces. Acta Materialia, 2009, 57, 5303-5313.	3.8	6
48	Revealing the Mechanism of Graphene Oxide Reduction by Supercritical Ethanol with First-Principles Calculations. Journal of Physical Chemistry C, 2019, 123, 8932-8942.	1.5	5
49	Contrary Effect of B and N Doping into Graphene and Graphene Oxide Heterostructures with MoS ₂ on Interface Function and Hydrogen Evolution. Journal of Physical Chemistry C, 2021, 125, 6611-6618.	1.5	5
50	Performance Improvement of Hole-Transport Material-Free Mesoporous Perovskite Solar Cells with Carbon Electrodes Using a Solid-ÅGas Reaction. ACS Applied Energy Materials, 2021, 4, 6606-6615.	2.5	5
51	Influence of M/A substitution on material properties of intermetallic compounds MSn ₂ (M = Fe, and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.4	4
52	Superior thermoelectric properties of ternary chalcogenides CsAg ₅ Q ₃ (Q =) Tj ETQq0 0 0 rgBT /Overlock 10 T 5729-5737.	1.3	4
53	First-principles study of luminescence properties of the Eu-doped defect pyrochlore oxide KNbWO_6 H_2O O_2 O_3 O_4 O_5 O_6 O_7 O_8 O_9 O_{10} O_{11} O_{12} O_{13} O_{14} O_{15} O_{16} O_{17} O_{18} O_{19} O_{20} O_{21} O_{22} O_{23} O_{24} O_{25} O_{26} O_{27} O_{28} O_{29} O_{30} O_{31} O_{32} O_{33} O_{34} O_{35} O_{36} O_{37} O_{38} O_{39} O_{40} O_{41} O_{42} O_{43} O_{44} O_{45} O_{46} O_{47} O_{48} O_{49} O_{50} O_{51} O_{52} O_{53} O_{54} O_{55} O_{56} O_{57} O_{58} O_{59} O_{60} O_{61} O_{62} O_{63} O_{64} O_{65} O_{66} O_{67} O_{68} O_{69} O_{70} O_{71} O_{72} O_{73} O_{74} O_{75} O_{76} O_{77} O_{78} O_{79} O_{80} O_{81} O_{82} O_{83} O_{84} O_{85} O_{86} O_{87} O_{88} O_{89} O_{90} O_{91} O_{92} O_{93} O_{94} O_{95} O_{96} O_{97} O_{98} O_{99} O_{100} O_{101} O_{102} O_{103} O_{104} O_{105} O_{106} O_{107} O_{108} O_{109} O_{110} O_{111} O_{112} O_{113} O_{114} O_{115} O_{116} O_{117} O_{118} O_{119} O_{120} O_{121} O_{122} O_{123} O_{124} O_{125} O_{126} O_{127} O_{128} O_{129} O_{130} O_{131} O_{132} O_{133} O_{134} O_{135} O_{136} O_{137} O_{138} O_{139} O_{140} O_{141} O_{142} O_{143} O_{144} O_{145} O_{146} O_{147} O_{148} O_{149} O_{150} O_{151} O_{152} O_{153} O_{154} O_{155} O_{156} O_{157} O_{158} O_{159} O_{160} O_{161} O_{162} O_{163} O_{164} O_{165} O_{166} O_{167} O_{168} O_{169} O_{170} O_{171} O_{172} O_{173} O_{174} O_{175} O_{176} O_{177} O_{178} O_{179} O_{180} O_{181} O_{182} O_{183} O_{184} O_{185} O_{186} O_{187} O_{188} O_{189} O_{190} O_{191} O_{192} O_{193} O_{194} O_{195} O_{196} O_{197} O_{198} O_{199} O_{200} O_{201} O_{202} O_{203} O_{204} O_{205} O_{206} O_{207} O_{208} O_{209} O_{210} O_{211} O_{212} O_{213} O_{214} O_{215} O_{216} O_{217} O_{218} O_{219} O_{220} O_{221} O_{222} O_{223} O_{224} O_{225} O_{226} O_{227} O_{228} O_{229} O_{230} O_{231} O_{232} O_{233} O_{234} O_{235} O_{236} O_{237} O_{238} O_{239} O_{240} O_{241} O_{242} O_{243} O_{244} O_{245} O_{246} O_{247} O_{248} O_{249} O_{250} O_{251} O_{252} O_{253} O_{254} O_{255} O_{256} O_{257} O_{258} O_{259} O_{260} O_{261} O_{262} O_{263} O_{264} O_{265} O_{266} O_{267} O_{268} O_{269} O_{270} O_{271} O_{272} O_{273} O_{274} O_{275} O_{276} O_{277} O_{278} O_{279} O_{280} O_{281} O_{282} O_{283} O_{284} O_{285} O_{286} O_{287} O_{288} O_{289} O_{290} O_{291} O_{292} O_{293} O_{294} O_{295} O_{296} O_{297} O_{298} O_{299} O_{300} O_{301} O_{302} O_{303} O_{304} O_{305} O_{306} O_{307} O_{308} O_{309} O_{310} O_{311} O_{312} O_{313} O_{314} O_{315} O_{316} O_{317} O_{318} O_{319} O_{320} O_{321} O_{322} O_{323} O_{324} O_{325} O_{326} O_{327} O_{328} O_{329} O_{330} O_{331} O_{332} O_{333} O_{334} O_{335} O_{336} O_{337} O_{338} O_{339} O_{340} O_{341} O_{342} O_{343} O_{344} O_{345} O_{346} O_{347} O_{348} O_{349} O_{350} O_{351} O_{352} O_{353} O_{354} O_{355} O_{356} O_{357} O_{358} O_{359} O_{360} O_{361} O_{362} O_{363} O_{364} O_{365} O_{366} O_{367} O_{368} O_{369} O_{370} O_{371} O_{372} O_{373} O_{374} O_{375} O_{376} O_{377} O_{378} O_{379} O_{380} O_{381} O_{382} O_{383} O_{384} O_{385} O_{386} O_{387} O_{388} O_{389} O_{390} O_{391} O_{392} O_{393} O_{394} O_{395} O_{396} O_{397} O_{398} O_{399} O_{400} O_{401} O_{402} O_{403} O_{404} O_{405} O_{406} O_{407} O_{408} O_{409} O_{410} O_{411} O_{412} O_{413} O_{414} O_{415} O_{416} O_{417} O_{418} O_{419} O_{420} O_{421} O_{422} O_{423} O_{424} O_{425} O_{426} O_{427} O_{428} O_{429} O_{430} O_{431} O_{432} O_{433} O_{434} O_{435} O_{436} O_{437} O_{438} O_{439} O_{440} O_{441} O_{442} O_{443} O_{444} O_{445} O_{446} O_{447} O_{448} O_{449} O_{450} O_{451} O_{452} O_{453} O_{454} O_{455} O_{456} O_{457} O_{458} O_{459} O_{460} O_{461} O_{462} O_{463} O_{464} O_{465} O_{466} O_{467} O_{468} O_{469} O_{470} O_{471} O_{472} O_{473} O_{474} O_{475} O_{476} O_{477} O_{478} O_{479} O_{480} O_{481} O_{482} O_{483} O_{484} O_{485} O_{486} O_{487} O_{488} O_{489} O_{490} O_{491} O_{492} O_{493} O_{494} O_{495} O_{496} O_{497} O_{498} O_{499} O_{500} O_{501} O_{502} O_{503} O_{504} O_{505} O_{506} O_{507} O_{508} O_{509} O_{510} O_{511} O_{512} O_{513} O_{514} O_{515} O_{516} O_{517} O_{518} O_{519} O_{520} O_{521} O_{522} O_{523} O_{524} O_{525} O_{526} O_{527} O_{528} O_{529} O_{530} O_{531} O_{532} O_{533} O_{534} O_{535} O_{536} O_{537} O_{538} O_{539} O_{540} O_{541} O_{542} O_{543} O_{544} O_{545} O_{546} O_{547} O_{548} O_{549} O_{550} O_{551} O_{552} O_{553} O_{554} O_{555} O_{556} O_{557} O_{558} O_{559} O_{560} O_{561} O_{562} O_{563} O_{564} O_{565} O_{566} O_{567} O_{568} O_{569} O_{570} O_{571} O_{572} O_{573} O_{574} O_{575} O_{576} O_{577} O_{578} O_{579} O_{580} O_{581} O_{582} O_{583} O_{584} O_{585} O_{586} O_{587} O_{588} O_{589} O_{590} O_{591} O_{592} O_{593} O_{594} O_{595} O_{596} O_{597} O_{598} O_{599} O_{600} O_{601} O_{602} O_{603} O_{604} O_{605} O_{606} O_{607} O_{608} O_{609} O_{610} O_{611} O_{612} O_{613} O_{614} O_{615} O_{616} O_{617} O_{618} O_{619} O_{620} O_{621} O_{622} O_{623} O_{624} O_{625} O_{626} O_{627} O_{628} O_{629} O_{630} O_{631} O_{632} O_{633} O_{634} O_{635} O_{636} O_{637} O_{638} O_{639} O_{640} O_{641} O_{642} O_{643} O_{644} O_{645} O_{646} O_{647} O_{648} O_{649} O_{650} O_{651} O_{652} O_{653} O_{654} O_{655} O_{656} O_{657} O_{658} O_{659} O_{660} O_{661} O_{662} O_{663} O_{664} O_{665} O_{666} O_{667} O_{668} O_{669} O_{670} O_{671} O_{672} O_{673} O_{674} O_{675} O_{676} O_{677} O_{678} O_{679} O_{680} O_{681} O_{682} O_{683} O_{684} O_{685} O_{686} O_{687} O_{688} O_{689} O_{690} O_{691} O_{692} O_{693} O_{694} O_{695} O_{696} O_{697} O_{698} O_{699} O_{700} O_{701} O_{702} O_{703} O_{704} O_{705} O_{706} O_{707} O_{708} O_{709} O_{710} O_{711} O_{712} O_{713} O_{714} O_{715} O_{716} O_{717} O_{718} O_{719} O_{720} O_{721} O_{722} O_{723} O_{724} O_{725} O_{726} O_{727} O_{728} O_{729} O_{730} O_{731} O_{732} O_{733} O_{734} O_{735} O_{736} O_{737} O_{738} O_{739} O_{740} O_{741} O_{742} O_{743} O_{744} O_{745} O_{746} O_{747} O_{748} O_{749} O_{750} O_{751} O_{752} O_{753} O_{754} O_{755} O_{756} O_{757} O_{758} O_{759} O_{760} O_{761} O_{762} O_{763} O_{764} O_{765} O_{766} O_{767} O_{768} O_{769} O_{770} O_{771} O_{772} O_{773} O_{774} O_{775} O_{776} O_{777} O_{778} O_{779} O_{780} O_{781} O_{782} O_{783} O_{784} O_{785} O_{786} O_{787} O_{788} O_{789} O_{790} O_{791} O_{792} O_{793} O_{794} O_{795} O_{796} O_{797} O_{798} O_{799} O_{800} O_{801} O_{802} O_{803} O_{804} O_{805} O_{806} O_{807} O_{808} O_{809} O_{810} O_{811} O_{812} O_{813} O_{814} O_{815} O_{816} O_{817} O_{818} O_{819} O_{820} O_{821} O_{822} O_{823} O_{824} O_{825}		

#	ARTICLE	IF	CITATIONS
55	Improving the stability of hybrid perovskite FAPbI ₃ by forming 3D/2D interfaces with organic spacers. <i>Chemical Communications</i> , 2022, 58, 8440-8443.	2.2	3
56	First-principles study on the elastic, electronic and optical properties of all-inorganic halide perovskite solid solutions of CsPb(Br _{1-x} Cl _x) ₃ within the virtual crystal approximation. <i>RSC Advances</i> , 2022, 12, 9755-9762.	1.7	2
57	First-principles study on structural, electronic, magnetic and thermodynamic properties of lithium ferrite LiFe ₅ O ₈ . <i>RSC Advances</i> , 2022, 12, 15973-15979.	1.7	2
58	First-principles study of the structural and electrochemical properties of Na _x Ti ₂ O ₄ (0 ≤ x ≤ 1) with tunnel structure for anode applications in alkali-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 8456-8465.	1.3	1
59	Ab Initio Thermodynamic Study of PbI ₂ and CH ₃ NH ₃ PbI ₃ Surfaces in Reaction with CH ₃ NH ₂ Gas for Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3671-3680.	1.5	1
60	Characterization of compositional particles in eye shadow powder by scanning electron microscope and X-ray mapping. <i>X-Ray Spectrometry</i> , 0, , .	0.9	0