

Jiangang He

List of Publications by Year in descending order

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papers

1,998
citations

218677

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all docs

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docs citations

50
times ranked

2701
citing authors

#	ARTICLE	IF	CITATIONS
1	Low Thermal Conductivity in Heteroanionic Materials with Layers of Homoleptic Polyhedra. <i>Journal of the American Chemical Society</i> , 2022, 144, 2569-2579.	13.7	13
2	Nonmetallic Active Sites on Nickel Phosphide in Oxygen Evolution Reaction. <i>Nanomaterials</i> , 2022, 12, 1130.	4.1	3
3	Homologous Alkali Metal Copper Rare-Earth Chalcogenides $A_{2-x}Cu_xLn_4Q_7$ ($x = 1, 2, 3$). <i>Chemistry of Materials</i> , 2022, 34, 3409-3422.	6.7	6
4	Accelerated Discovery and Design of Ultralow Lattice Thermal Conductivity Materials Using Chemical Bonding Principles. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	34
5	2D Homologous Series $Sr_{2-x}BiS_{x+2}$ ($M = Pb$), <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50</i> $Sr_2F_2Bi_3S_2$. <i>Inorganic Chemistry</i> , 2022, 61, 8233-8240.	4.0	2
6	Mechanistic insight of $KBiQ_2$ ($Q = S, Se$) using panoramic synthesis towards synthesis-by-design. <i>Chemical Science</i> , 2021, 12, 1378-1391.	7.4	11
7	Outstanding Properties and Performance of $CaTi_{0.5}Mn_{0.5}O_3$ for Solar-Driven Thermochemical Hydrogen Production. <i>Matter</i> , 2021, 4, 688-708.	10.0	45
8	Inorganic Halide Perovskitoid $TlPbI_3$ for Ionizing Radiation Detection. <i>Advanced Functional Materials</i> , 2021, 31, 2006635.	14.9	16
9	Pressure-induced ferroelectric-like transition creates a polar metal in defect antiperovskites $Hg_3Te_2X_2$ ($X = Cl, Br$). <i>Nature Communications</i> , 2021, 12, 1509.	12.8	14
10	Crystal and Electronic Structures of Palladium Sesquichalcogenides. <i>Chemistry of Materials</i> , 2021, 33, 2298-2306.	6.7	5
11	Accelerated discovery of a large family of quaternary chalcogenides with very low lattice thermal conductivity. <i>Npj Computational Materials</i> , 2021, 7, .	8.7	32
12	Ultralow Thermal Conductivity, Multiband Electronic Structure and High Thermoelectric Figure of Merit in $TiCuSe$. <i>Advanced Materials</i> , 2021, 33, e21104908.	21.0	29
13	High-Throughput Computational Discovery of Ternary Mixed-Anion Oxypnictides. <i>Chemistry of Materials</i> , 2021, 33, 9486-9500.	6.7	6
14	$Ir_6In_{32}S_{21}$, a polar, metal-rich semiconducting subchalcogenide. <i>Chemical Science</i> , 2020, 11, 870-878.	7.4	7
15	$Ca_2B_5O_9Cl$ and $Sr_2B_5O_9Cl$: Nonlinear Optical Crystals with Deep-Ultraviolet Transparency Windows. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4632-4637.	8.0	32
16	Favorable Redox Thermodynamics of $SrTi_{0.5}Mn_{0.5}O_3$ in Solar Thermochemical Water Splitting. <i>Chemistry of Materials</i> , 2020, 32, 9335-9346.	6.7	42
17	$Zn_3B_7O_{13}Cl$: A New Deep-Ultraviolet Transparency Nonlinear Optical Crystal with Boracite Structure. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42942-42948.	8.0	14
18	Computational Discovery of Stable Heteroanionic Oxychalcogenides $ABXO$ ($A, B = \text{Metals}; X = S, Se, \text{and}$) <i>Tj ETQq0 0,0 rgBT /Overlock 1</i>	6.7	21

#	ARTICLE	IF	CITATIONS
37	Designing and Discovering a New Family of Semiconducting Quaternary Heusler Compounds Based on the 18-Electron Rule. Chemistry of Materials, 2018, 30, 4978-4985.	6.7	57
38	Machine-learning-accelerated high-throughput materials screening: Discovery of novel quaternary Heusler compounds. Physical Review Materials, 2018, 2, .	2.4	62
39	Deuterium Isotope Effects in Polymerization of Benzene under Pressure. Journal of Physical Chemistry Letters, 2017, 8, 1856-1864.	4.6	12
40	Bi_2PdO_4 : A Promising Thermoelectric Oxide with High Power Factor and Low Lattice Thermal Conductivity. Chemistry of Materials, 2017, 29, 2529-2534.	6.7	42
41	TlSb_2 : a Semiconductor for Hard Radiation Detection. ACS Photonics, 2017, 4, 2891-2898.	6.6	11
42	Revealing the Conversion Mechanism of Transition Metal Oxide Electrodes during Lithiation from First-Principles. Chemistry of Materials, 2017, 29, 9011-9022.	6.7	60
43	Assessing the performance of self-consistent hybrid functional for band gap calculation in oxide semiconductors. Journal of Physics Condensed Matter, 2017, 29, 454004.	1.8	33
44	Ferroelectric Oxides with Strong Visible-Light Absorption from Charge Ordering. Chemistry of Materials, 2017, 29, 2445-2451.	6.7	32
45	Ultralow Thermal Conductivity in Full Heusler Semiconductors. Physical Review Letters, 2016, 117, 046602.	7.8	163
46	Lithium Niobate-Type Oxides as Visible Light Photovoltaic Materials. Chemistry of Materials, 2016, 28, 25-29.	6.7	26
47	RbMgCO_3F : A New Beryllium-Free Deep-Ultraviolet Nonlinear Optical Material. Journal of the American Chemical Society, 2015, 137, 10504-10507.	13.7	283
48	Structural determination and electronic properties of the 4dperovskite SrPdO_3 . Physical Review B, 2014, 89, . Screened hybrid functional applied to $3d$	3.2	14
49	Exceptionally strong magnetism in the $4d$	3.2	146
50	perovskites R_2TcO	3.2	42