Ryoji Katsube

List of Publications by Year
in descending order

19	105	1307594 7	1372567 10
papers	citations	h-index	g-index

19	19	19	140
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Acceleration of phase diagram construction by machine learning incorporating Gibbs' phase rule. Scripta Materialia, 2022, 208, 114335.	5.2	9
2	Deep level transient spectroscopy and photoluminescence studies of hole and electron traps in ZnSnP₂ bulk crystals. Japanese Journal of Applied Physics, 2022, 61, 020905.	1.5	1
3	Synthesis of alkaline-earth Zintl phosphides MZn₂P₂ (M = Ca, Sr,) Tj ETQq1 1 0.784314 rgBT /O	1.4	2
4	Machine-Learning-Based phase diagram construction for high-throughput batch experiments. Science and Technology of Advanced Materials Methods, 2022, 2, 153-161.	1.3	3
5	Performance enhancement of ZnSnP2 solar cells by a Cu3P back buffer layer. Solar Energy Materials and Solar Cells, 2021, 221, 110891.	6.2	8
6	Optical and Electrical Transport Evaluations of n-Type Iron Pyrite Single Crystals. ACS Omega, 2021, 6, 31358-31365.	3.5	2
7	Comparison of Sb, As, and P doping in Cd-rich CdTe single crystals: Doping properties, persistent photoconductivity, and long-term stability. Applied Physics Letters, 2020, 116, .	3.3	18
8	Experimental Establishment of Phase Diagrams Guided by Uncertainty Sampling: An Application to the Deposition of Znâ€“Snâ€“P Films by Molecular Beam Epitaxy. , 2020, 2, 571-575.		13
9	Preparation of a CuGaSe₂single crystal and its photocathodic properties. RSC Advances, 2020, 10, 40310-40315.	3.6	7
10	Experimental investigation of phase equilibria around a ternary compound semiconductor Mg(Mg) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 120983.	2.9	2
11	Formation Mechanism of InP Films by Phosphidation under Controlled Chemical Potential and Wetting Behavior. ACS Applied Electronic Materials, 2019, 1, 877-882.	4.3	1
12	Improvement of Ohmic Behavior of Back Contact in ZnSnP2 Solar Cells by Inserting Cu3P. , 2019, , .		0
13	Investigation on Phase Equilibria in the Mg-P-Zn system Concerning Mg(Mg<inf>x</inf>Zn<inf>1-x</inf>)<inf>2</inf>P<inf>2</inf>/Zn<inf>3</inf>P</in Photovoltaics. , 2018, , .		0
14	Reactive Epitaxial Formation of a Mgâ€“Pâ€“Zn Ternary Semiconductor in Mg/Zn₃P₂ Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 36102-36107.	8.0	11
15	Orientation of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0013.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi>Zn</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></ mathvariant="normal">P</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml via phosphidation of Zn precursors. Journal of Crystal Growth, 2017, 459, 95-99.	1.5	4
16	Thermodynamic considerations on interfacial reactivity concerning carrier transport characteristics in metal/p-Zn₃P₂ junctions. Journal of Materials Chemistry C, 2017, 5, 5538-5543.	5.5	1
17	Ternary phosphide semiconductor in solar cells. , 2017, , .		0
18	Growth and characterization of indium-doped Zn₃P₂ bulk crystals. Japanese Journal of Applied Physics, 2016, 55, 041201.	1.5	12

#	Article	IF	Citations
19	Growth and characterization of Cu2ZnSn(S Se1âˆ')4 single crystal grown by traveling heater method. Journal of Crystal Growth, 2015, 423, 9-15.	1.5	11