

Mitsutaro Umehara

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Enhanced Bulk Transport in Copper Vanadate Photoanodes Identified by Combinatorial Alloying. <i>Matter</i> , 2020, 3, 1601-1613.	10.0	8
2	Bi Alloying into Rare Earth Double Perovskites Enhances Synthesizability and Visible Light Absorption. <i>ACS Combinatorial Science</i> , 2020, 22, 895-901.	3.8	5
3	Multi-component background learning automates signal detection for spectroscopic data. <i>Npj Computational Materials</i> , 2019, 5, .	8.7	21
4	Multi-modal optimization of bismuth vanadate photoanodes <i>via</i> combinatorial alloying and hydrogen processing. <i>Chemical Communications</i> , 2019, 55, 489-492.	4.1	15
5	Analyzing machine learning models to accelerate generation of fundamental materials insights. <i>Npj Computational Materials</i> , 2019, 5, .	8.7	60
6	Alkaline-stable nickel manganese oxides with ideal band gap for solar fuel photoanodes. <i>Chemical Communications</i> , 2018, 54, 4625-4628.	4.1	2
7	Combinatorial alloying improves bismuth vanadate photoanodes <i>via</i> reduced monoclinic distortion. <i>Energy and Environmental Science</i> , 2018, 11, 2444-2457.	30.8	21
8	Cu ₂ ZnSnS ₄ photovoltaic cell with improved efficiency fabricated by high-temperature annealing after CdS buffer-layer deposition. <i>Progress in Photovoltaics: Research and Applications</i> , 2017, 25, 14-22.	8.1	97
9	Band slope in CdS layer of ZnO:Ga/CdS/Cu ₂ ZnSnS ₄ photovoltaic cells revealed by hard X-ray photoelectron spectroscopy. <i>Applied Physics Letters</i> , 2016, 109, 203902.	3.3	6
10	Wide bandgap Cu ₂ ZnSn _{1-x} Ge _x S ₄ fabricated on transparent conductive oxide-coated substrates for top-cells of multi-junction solar cells. <i>Journal of Alloys and Compounds</i> , 2016, 689, 713-717.	5.5	16
11	Cu ₂ Sn _{1-x} Ge _x S ₃ solar cells fabricated with a graded bandgap structure. <i>Applied Physics Express</i> , 2016, 9, 072301.	2.4	71
12	Photovoltaic properties of Cu ₂ ZnSnS ₄ cells fabricated using ZnSnO and ZnSnO/CdS buffer layers. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 112302.	1.5	21
13	Improvement of red light response of Cu ₂ Sn _{1-x} Ge _x S ₃ solar cells by optimization of CdS buffer layers. <i>Journal of Applied Physics</i> , 2015, 118, 154502.	2.5	10
14	Energy level diagram around Ge-rich grain boundaries in Cu ₂ Sn _{1-x} Ge _x S ₃ (CTGS) thin-film solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 134, 1-4.	6.2	23
15	Cu ₂ Sn _{1-x} Ge _x S ₃ (<i>x</i> = 0.17) Thin-Film Solar Cells with High Conversion Efficiency of 6.0%. <i>Applied Physics Express</i> , 2013, 6, 045501.	2.4	132
16	Laser Annealing to Form High-Temperature Phase of FeS ₂ . <i>Japanese Journal of Applied Physics</i> , 2012, 51, 02BP10.	1.5	6