

Celeste L Melamed

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

549
citations

687363

13
h-index

996975

15
g-index

18
all docs

18
docs citations

18
times ranked

469
citing authors

#	ARTICLE	IF	CITATIONS
1	Combinatorial insights into doping control and transport properties of zinc tin nitride. Journal of Materials Chemistry C, 2015, 3, 11017-11028.	5.5	128
2	Ternary nitride semiconductors in the rocksalt crystal structure. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14829-14834.	7.1	52
3	COMBIgor: Data-Analysis Package for Combinatorial Materials Science. ACS Combinatorial Science, 2019, 21, 537-547.	3.8	52
4	Utilizing Site Disorder in the Development of New Energy-Relevant Semiconductors. ACS Energy Letters, 2020, 5, 2027-2041.	17.4	46
5	Combinatorial Synthesis of Magnesium Tin Nitride Semiconductors. Journal of the American Chemical Society, 2020, 142, 8421-8430.	13.7	42
6	Exciton photoluminescence and benign defect complex formation in zinc tin nitride. Materials Horizons, 2018, 5, 823-830.	12.2	41
7	Ternary Nitride Materials: Fundamentals and Emerging Device Applications. Annual Review of Materials Research, 2021, 51, 591-618.	9.3	34
8	Combinatorial investigation of structural and optical properties of cation-disordered ZnGeN ₂ . Journal of Materials Chemistry C, 2020, 8, 8736-8746.	5.5	28
9	Combinatorial Tuning of Structural and Optoelectronic Properties in Cu Zn _{1-x} S. Matter, 2019, 1, 862-880.	10.0	26
10	Band Edge Positions and Their Impact on the Simulated Device Performance of ZnSnN ₂ -Based Solar Cells. IEEE Journal of Photovoltaics, 2018, 8, 110-117.	2.5	25
11	Heteroepitaxial Integration of ZnGeN ₂ on GaN Buffers Using Molecular Beam Epitaxy. Crystal Growth and Design, 2020, 20, 1868-1875.	3.0	24
12	Blue-green emission from epitaxial yet cation-disordered ZnGeN_2O_x . Physical Review Materials, 2019, 3, .	2.4	23
13	Using resonant energy X-ray diffraction to extract chemical order parameters in ternary semiconductors. Journal of Materials Chemistry C, 2020, 8, 4350-4356.	5.5	13
14	Large Area Atomically Flat Surfaces via Exfoliation of Bulk Bi ₂ Se ₃ Single Crystals. Chemistry of Materials, 2017, 29, 8472-8477.	6.7	8
15	Short-Range Order Tunes Optical Properties in Long-Range Disordered ZnSn ₂ ZnO Alloy. Chemistry of Materials, 2022, 34, 3910-3919.	6.7	6
16	Single crystalline substrates for III- V growth via exfoliation of bulk single crystals. , 2017, , .		1
17	Investigation of Off-stoichiometry in Ternary Nitrides by EDS and HRTEM. Microscopy and Microanalysis, 2020, 26, 1406-1407.	0.4	0
18	Surface conversion of single-crystal Bi ₂ Se ₃ to \hat{I}^2 -In ₂ Se ₃ . Journal of Crystal Growth, 2021, 573, 126306.	1.5	0