

Sage R Bauers

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5508932/publications.pdf>

Version: 2024-02-01

42
papers

1,018
citations

516710

16
h-index

434195

31
g-index

47
all docs

47
docs citations

47
times ranked

1369
citing authors

#	ARTICLE	IF	CITATIONS
1	A map of the inorganic ternary metal nitrides. <i>Nature Materials</i> , 2019, 18, 732-739.	27.5	274
2	Review—Investigation and Review of the Thermal, Mechanical, Electrical, Optical, and Structural Properties of Atomic Layer Deposited High- <i>k</i> Dielectrics: Beryllium Oxide, Aluminum Oxide, Hafnium Oxide, and Aluminum Nitride. <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, N189-N208.	1.8	81
3	Misfit Layer Compounds and Ferecrystals: Model Systems for Thermoelectric Nanocomposites. <i>Materials</i> , 2015, 8, 2000-2029.	2.9	52
4	Ternary nitride semiconductors in the rocksalt crystal structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14829-14834.	7.1	52
5	COMBlgor: Data-Analysis Package for Combinatorial Materials Science. <i>ACS Combinatorial Science</i> , 2019, 21, 537-547.	3.8	52
6	Demonstration of thin film pair distribution function Analysis (tfPDF) for the study of local structure in amorphous and crystalline thin films. <i>IUCr</i> , 2015, 2, 481-489.	2.2	50
7	Combinatorial Synthesis of Magnesium Tin Nitride Semiconductors. <i>Journal of the American Chemical Society</i> , 2020, 142, 8421-8430.	13.7	42
8	Experimental Synthesis of Theoretically Predicted Multivalent Ternary Nitride Materials. <i>Chemistry of Materials</i> , 2022, 34, 1418-1438.	6.7	30
9	Structural and Electrical Properties of $(\text{SnSe})_{1+x}(\text{NbSe})_{2-y}$ Compounds: Single NbSe_2 Layers Separated by Increasing Thickness of SnSe . <i>Chemistry of Materials</i> , 2015, 27, 867-875.	6.7	29
10	SnS Homojunction Solar Cell with n -Type Single Crystal and p -Type Thin Film. <i>Solar Rrl</i> , 2021, 5, 2000708.	5.8	29
11	Influence of Defects on the Charge Density Wave of $(\text{SnSe})_{1+x}(\text{VSe})_{2-y}$ Ferecrystals. <i>ACS Nano</i> , 2015, 9, 8440-8448.	14.6	25
12	Cross-Plane Seebeck Coefficient Measurement of Misfit Layered Compounds $(\text{SnSe})_x(\text{TiSe})_{2-x}$ ($x = 1,3,4,5$). <i>Nano Letters</i> , 2017, 17, 1978-1986.	9.1	25
13	Kinetically Controlled Site-Specific Substitutions in Higher-Order Heterostructures. <i>Chemistry of Materials</i> , 2015, 27, 4066-4072.	6.7	22
14	Composition, structure, and semiconducting properties of $\text{Mg}_x\text{Zr}_{2-x}\text{N}_2$ thin films. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SC1015.	1.5	22
15	Bi-Containing n - FeWO_4 Thin Films Provide the Largest Photovoltage and Highest Stability for a Sub-2 eV Band Gap Photoanode. <i>ACS Energy Letters</i> , 2018, 3, 2769-2774.	17.4	20
16	Structural Evolution of Iron Antimonides from Amorphous Precursors to Crystalline Products Studied by Total Scattering Techniques. <i>Journal of the American Chemical Society</i> , 2015, 137, 9652-9658.	13.7	18
17	Carrier dilution in TiSe_2 based intergrowth compounds for enhanced thermoelectric performance. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10451-10458.	5.5	16
18	Metal chalcogenides for neuromorphic computing: emerging materials and mechanisms. <i>Nanotechnology</i> , 2021, 32, 372001.	2.6	16

#	ARTICLE	IF	CITATIONS
37	Amorphous sulfide heterostructure precursors prepared by radio frequency sputtering. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2019, 37, 051201.	1.2	2
38	Wurtzite materials in alloys of rock salt compounds. Journal of Materials Research, 2020, 35, 972-980.	2.6	2
39	Understanding the Reactions Between Fe and Se Binary Diffusion Couples. Chemistry of Materials, 2021, 33, 2585-2592.	6.7	2
40	Correlation of Reduced Interlayer Charge Transfer with Antiphase Boundary Formation in Bi _x Sn _{1-x} Se ₂ Heterostructures. European Journal of Inorganic Chemistry, 2017, 2017, 950-957.	2.0	1
41	High-throughput fabrication and semi-automated characterization of oxide thin film transistors. Chinese Physics B, 2020, 29, 018502.	1.4	1
42	Experimental and theoretical investigation of the chromium-vanadium-antimony system. Zeitschrift Fur Kristallographie - Crystalline Materials, 2017, 232, 235-244.	0.8	0