Sage R Bauers

List of Publications by Year
in descending order

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	Reactive phosphine combinatorial co-sputtering of cation disordered ZnGeP₂ films. Journal of Materials Chemistry C, 2022, 10, 870-879.	5.5	8
2	Experimental Synthesis of Theoretically Predicted Multivalent Ternary Nitride Materials. Chemistry of Materials, 2022, 34, 1418-1438.	6.7	30
3	Boron Phosphide Films by Reactive Sputtering: Searching for a Pâ€Type Transparent Conductor. Advanced Materials Interfaces, 2022, 9, .	3.7	8
4	Addressing solar photochemistry durability with an amorphous nickel antimonate photoanode. Cell Reports Physical Science, 2022, 3, 100959.	5.6	6
5	SnS Homojunction Solar Cell with nâ€Type Single Crystal and pâ€Type Thin Film. Solar Rrl, 2021, 5, 2000708.	5.8	29
6	Understanding the Reactions Between Fe and Se Binary Diffusion Couples. Chemistry of Materials, 2021, 33, 2585-2592.	6.7	2
7	Metal chalcogenides for neuromorphic computing: emerging materials and mechanisms. Nanotechnology, 2021, 32, 372001.	2.6	16
8	Defects in Layered van der Waals Heterostructures: Implications for Thermoelectrics. ACS Applied Nano Materials, 2021, 4, 7943-7953.	5.0	3
9	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>n</mml:mi></mml:math> -type electrical conduction in SnS thin films. Physical Review Materials, 2021, 5, .	2.4	8
10	Synthesis and Characterization of [(PbSe)_{1+Î´}]₄[TiSe₂]₄ Isomers. Inorganic Chemistry, 2020, 59, 10928-10937.	4.0	3
11	Synthesis of Tunable SnS-TaS₂ Nanoscale Superlattices. Nano Letters, 2020, 20, 7059-7067.	9.1	7
12	Influence of Nanoarchitecture on Charge Donation and the Electrical-Transport Properties in [(SnSe)_{1+Î´}][TiSe₂]_q Heterostructures. Chemistry of Materials, 2020, 32, 5802-5813.	6.7	6
13	Epitaxial growth of rock salt MgZrN2 semiconductors on MgO and GaN. Applied Physics Letters, 2020, 116, 102102.	3.3	12
14	High-throughput fabrication and semi-automated characterization of oxide thin film transistors. Chinese Physics B, 2020, 29, 018502.	1.4	1
15	Wurtzite materials in alloys of rock salt compounds. Journal of Materials Research, 2020, 35, 972-980.	2.6	2
16	Influence of hydrogen and oxygen on the structure and properties of sputtered magnesium zirconium oxynitride thin films. Journal of Materials Chemistry A, 2020, 8, 9364-9372.	10.3	11
17	Combinatorial Synthesis of Magnesium Tin Nitride Semiconductors. Journal of the American Chemical Society, 2020, 142, 8421-8430.	13.7	42
18	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

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19	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
20	COMBIgor: Data-Analysis Package for Combinatorial Materials Science. ACS Combinatorial Science, 2019, 21, 537-547.	3.8	52
21	A map of the inorganic ternary metal nitrides. Nature Materials, 2019, 18, 732-739.	27.5	274
22	Composition, structure, and semiconducting properties of Mg _x Zr_{2â^'x}N₂ thin films. Japanese Journal of Applied Physics, 2019, 58, SC1015.	1.5	22
23	Structural Changes as a Function of Thickness in [(SnSe)1+Î´]mTiSe2 Heterostructures. ACS Nano, 2018, 12, 1285-1295.	14.6	11
24	Bi-Containing n-FeWO4 Thin Films Provide the Largest Photovoltage and Highest Stability for a Sub-2 eV Band Gap Photoanode. ACS Energy Letters, 2018, 3, 2769-2774.	17.4	20
25	Combinatorial Nitrogen Gradients in Sputtered Thin Films. ACS Combinatorial Science, 2018, 20, 436-442.	3.8	13
26	Correlation of Reduced Interlayer Charge Transfer with Antiphase Boundary Formation in Bi x Sn 1â€“ x Seâ€“NbSe 2 Heterostructures. European Journal of Inorganic Chemistry, 2017, 2017, 950-957.	2.0	1
27	Long-Range Order in [(SnSe)_{1.2}]₁[TiSe₂]₁ Prepared from Designed Precursors. Inorganic Chemistry, 2017, 56, 3499-3505.	4.0	10
28	Electroless Metallization of Dielectric Surfaces. ECS Transactions, 2017, 75, 27-33.	0.5	4
29	Cross-Plane Seebeck Coefficient Measurement of Misfit Layered Compounds (SnSe)_n(TiSe₂)_n (n = 1,3,4,5). Nano Letters, 2017, 17, 1978-1986.	9.1	25
30	Modulation Doping in Metastable Heterostructures via Kinetically Controlled Substitution. Chemistry of Materials, 2017, 29, 773-779.	6.7	8
31	Experimental and theoretical investigation of the chromiumâ€“vanadiumâ€“antimony system. Zeitschrift Fur Kristallographie - Crystalline Materials, 2017, 232, 235-244.	0.8	0
32	Reviewâ€”Investigation and Review of the Thermal, Mechanical, Electrical, Optical, and Structural Properties of Atomic Layer Deposited High-kDielectrics: Beryllium Oxide, Aluminum Oxide, Hafnium Oxide, and Aluminum Nitride. ECS Journal of Solid State Science and Technology, 2017, 6, N189-N208.	1.8	81
33	Structureâ€“property relationships in non-epitaxial chalcogenide heterostructures: the role of interface density on charge exchange. Nanoscale, 2016, 8, 14665-14672.	5.6	10
34	Demonstration of thin film pair distribution functionÂanalysis (tfPDF) for the study of local structure in amorphous and crystalline thin films. IUCrJ, 2015, 2, 481-489.	2.2	50
35	Kinetically Controlled Site-Specific Substitutions in Higher-Order Heterostructures. Chemistry of Materials, 2015, 27, 4066-4072.	6.7	22
36	Structural and Electrical Properties of ([SnSe]_{1+Î´})_m(NbSe₂)₁ Compounds: Single NbSe₂ Layers Separated by Increasing Thickness of SnSe. Chemistry of Materials, 2015, 27, 867-875.	6.7	29

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37	[illegible] width of kinetically stable ([PbSe]1+)1<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:msub><mml:mrow><mml:mi) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 732 Td (mathvariant="n	5.5	9
38	Carrier dilution in TiSe₂ based intergrowth compounds for enhanced thermoelectric performance. Journal of Materials Chemistry C, 2015, 3, 10451-10458.	5.5	16
39	Misfit Layer Compounds and Ferecrystals: Model Systems for Thermoelectric Nanocomposites. Materials, 2015, 8, 2000-2029.	2.9	52
40	Structural Evolution of Iron Antimonides from Amorphous Precursors to Crystalline Products Studied by Total Scattering Techniques. Journal of the American Chemical Society, 2015, 137, 9652-9658.	13.7	18
41	Influence of Defects on the Charge Density Wave of ([SnSe]_{1+Î´})₁(VSe₂)₁ Ferecrystals. ACS Nano, 2015, 9, 8440-8448.	14.6	25
42	Electrochemical synthesis of flat-[Ga_{13â^'x}In_x(Î¼₃-OH)₆(Î¼-OH)₁₈(H₂O)₂₄/s clusters as aqueous precursors for solution-processed semiconductors. Journal of Materials Chemistry C, 2014, 2, 8492-8496.	5.5	14