

Steven N Girard

List of Publications by Year in descending order

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papers

1,978
citations

471509

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23
docs citations

23
times ranked

2146
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-temperature Molten-Salt Production of Silicon Nanowires by the Electrochemical Reduction of CaSiO_3 . <i>Angewandte Chemie</i> , 2017, 129, 14645-14649.	2.0	71
2	Low-temperature Molten-Salt Production of Silicon Nanowires by the Electrochemical Reduction of CaSiO_3 . <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14453-14457.	13.8	81
3	Analysis and Implications of Structural Complexity in Low Lattice Thermal Conductivity High Thermoelectric Performance PbTe - PbSnS_2 Composites. <i>Chemistry of Materials</i> , 2016, 28, 3771-3777.	6.7	7
4	Twisting phonons in complex crystals with quasi-one-dimensional substructures. <i>Nature Communications</i> , 2015, 6, 6723.	12.8	75
5	Approaching the Minimum Thermal Conductivity in Rhenium-Substituted Higher Manganese Silicides. <i>Advanced Energy Materials</i> , 2014, 4, 1400452.	19.5	74
6	Facile and scalable synthesis of Ti_5Si_3 nanoparticles in molten salts for metal-matrix nanocomposites. <i>Chemical Communications</i> , 2014, 50, 1454-1457.	4.1	26
7	Thermoelectric Properties of Undoped High Purity Higher Manganese Silicides Grown by Chemical Vapor Transport. <i>Chemistry of Materials</i> , 2014, 26, 5097-5104.	6.7	48
8	Valence-band structure of highly efficient p -type thermoelectric PbTe - PbS alloys. <i>Physical Review B</i> , 2013, 87, .	3.2	74
9	Controlling Metallurgical Phase Separation Reactions of the $\text{Ge}_{0.87}\text{Pb}_{0.13}\text{Te}$ Alloy for High Thermoelectric Performance. <i>Advanced Energy Materials</i> , 2013, 3, 815-820.	19.5	202
10	Vapor Phase Conversion Synthesis of Higher Manganese Silicide ($\text{MnSi}_{1.75}$) Nanowire Arrays for Thermoelectric Applications. <i>Chemistry of Materials</i> , 2013, 25, 632-638.	6.7	35
11	Analysis of Phase Separation in High Performance PbTe - PbS Thermoelectric Materials. <i>Advanced Functional Materials</i> , 2013, 23, 747-757.	14.9	52
12	PbTe - PbSnS_2 thermoelectric composites: low lattice thermal conductivity from large microstructures. <i>Energy and Environmental Science</i> , 2012, 5, 8716.	30.8	54
13	Strong Phonon Scattering by Layer Structured PbSnS_2 in PbTe Based Thermoelectric Materials. <i>Advanced Materials</i> , 2012, 24, 4440-4444.	21.0	130
14	High Performance Na-doped PbTe - PbS Thermoelectric Materials: Electronic Density of States Modification and Shape-Controlled Nanostructures. <i>Journal of the American Chemical Society</i> , 2011, 133, 16588-16597.	13.7	322
15	Infrared Studies of the $(1-x)\text{PbTe} - (x)\text{PbSnS}_2$ System. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1325, 143.	0.1	2
16	Microstructure-Dependent Lattice Thermal Conductivity Correlation in Nanostructured $\text{PbTe}_{0.7}\text{S}_{0.3}$ Thermoelectric Materials. <i>Advanced Functional Materials</i> , 2010, 20, 764-772.	14.9	307
17	Room temperature Young's modulus, shear modulus, Poisson's ratio and hardness of PbTe - PbS thermoelectric materials. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 170, 58-66.	3.5	95
18	Reduction of the Lattice Thermal Conductivity in Immiscible PbS - PbTe Systems. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1267, 1.	0.1	0

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19	Thermoelectric Properties of Composite PbTe $\hat{=}$ PbSnS ₂ Materials. Materials Research Society Symposia Proceedings, 2010, 1267, 1.	0.1	1
20	On the Origin of Increased Phonon Scattering in Nanostructured PbTe Based Thermoelectric Materials. Journal of the American Chemical Society, 2010, 132, 8669-8675.	13.7	211
21	In Situ Nanostructure Generation and Evolution within a Bulk Thermoelectric Material to Reduce Lattice Thermal Conductivity. Nano Letters, 2010, 10, 2825-2831.	9.1	108
22	Thermoelectric Generators Made with Novel Lead Telluride Based Materials. Materials Research Society Symposia Proceedings, 2009, 1218, 1.	0.1	1
23	Investigation of Solid-State Immiscibility and Thermoelectric Properties of the System PbTe $\hat{=}$ PbS. Materials Research Society Symposia Proceedings, 2009, 1166, 7.	0.1	2