

# Steven N Girard

## List of Publications by Year in descending order

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23  
papers

1,978  
citations

471509

17  
h-index

677142

22  
g-index

23  
all docs

23  
docs citations

23  
times ranked

2146  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Microstructure-Lattice Thermal Conductivity Correlation in Nanostructured PbTe <sub>0.7</sub> S <sub>0.3</sub> Thermoelectric Materials. <i>Advanced Functional Materials</i> , 2010, 20, 764-772.	14.9	307
3	On the Origin of Increased Phonon Scattering in Nanostructured PbTe Based Thermoelectric Materials. <i>Journal of the American Chemical Society</i> , 2010, 132, 8669-8675.	13.7	211
4	Controlling Metallurgical Phase Separation Reactions of the Ge <sub>0.87</sub> Pb <sub>0.13</sub> Te Alloy for High Thermoelectric Performance. <i>Advanced Energy Materials</i> , 2013, 3, 815-820.	19.5	202
5	Strong Phonon Scattering by Layer Structured PbSnS <sub>2</sub> in PbTe Based Thermoelectric Materials. <i>Advanced Materials</i> , 2012, 24, 4440-4444.	21.0	130
6	In Situ Nanostructure Generation and Evolution within a Bulk Thermoelectric Material to Reduce Lattice Thermal Conductivity. <i>Nano Letters</i> , 2010, 10, 2825-2831.	9.1	108
7	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
8	Low-Temperature Molten-Salt Production of Silicon Nanowires by the Electrochemical Reduction of CaSiO <sub>3</sub> . <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14453-14457.	13.8	81
9	Twisting phonons in complex crystals with quasi-one-dimensional substructures. <i>Nature Communications</i> , 2015, 6, 6723.	12.8	75
10	Valence-band structure of highly efficient $p$ -type thermoelectric PbTe-PbS alloys. <i>Physical Review B</i> , 2013, 87, .	3.2	74
11	Approaching the Minimum Thermal Conductivity in Rhenium-Substituted Higher Manganese Silicides. <i>Advanced Energy Materials</i> , 2014, 4, 1400452.	19.5	74
12	Low-Temperature Molten-Salt Production of Silicon Nanowires by the Electrochemical Reduction of CaSiO <sub>3</sub> . <i>Angewandte Chemie</i> , 2017, 129, 14645-14649.	2.0	71
13	PbTe/PbSnS <sub>2</sub> thermoelectric composites: low lattice thermal conductivity from large microstructures. <i>Energy and Environmental Science</i> , 2012, 5, 8716.	30.8	54
14	Analysis of Phase Separation in High Performance PbTe/PbS Thermoelectric Materials. <i>Advanced Functional Materials</i> , 2013, 23, 747-757.	14.9	52
15	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
16	Vapor Phase Conversion Synthesis of Higher Manganese Silicide (MnSi <sub>1.75</sub> ) Nanowire Arrays for Thermoelectric Applications. <i>Chemistry of Materials</i> , 2013, 25, 632-638.	6.7	35
17	Facile and scalable synthesis of Ti <sub>5</sub> Si <sub>3</sub> nanoparticles in molten salts for metal-matrix nanocomposites. <i>Chemical Communications</i> , 2014, 50, 1454-1457.	4.1	26
18	Analysis and Implications of Structural Complexity in Low Lattice Thermal Conductivity High Thermoelectric Performance PbTe/PbSnS <sub>2</sub> Composites. <i>Chemistry of Materials</i> , 2016, 28, 3771-3777.	6.7	7

#	ARTICLE	IF	CITATIONS
19	Investigation of Solid-State Immiscibility and Thermoelectric Properties of the System PbTe $\hat{a}$ €“ PbS. Materials Research Society Symposia Proceedings, 2009, 1166, 7.	0.1	2
20	Infrared Studies of the (1-x) PbTe $\hat{a}$ €“ (x) PbSnS <sub>2</sub> System. Materials Research Society Symposia Proceedings, 2011, 1325, 143.	0.1	2
21	Thermoelectric Generators Made with Novel Lead Telluride Based Materials. Materials Research Society Symposia Proceedings, 2009, 1218, 1.	0.1	1
22	Thermoelectric Properties of Composite PbTe $\hat{a}$ €“ PbSnS <sub>2</sub> Materials. Materials Research Society Symposia Proceedings, 2010, 1267, 1.	0.1	1
23	Reduction of the Lattice Thermal Conductivity in Immiscible PbS-PbTe Systems. Materials Research Society Symposia Proceedings, 2010, 1267, 1.	0.1	0