

# Yaniv Gelbstein

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

113 papers	3,926 citations	44 h-index	61 g-index
120 ext. papers	4,366 ext. citations	4.1 avg, IF	5.93 L-index

#	Paper	IF	Citations
113	Origin of the high performance in GeTe-based thermoelectric materials upon Bi <sub>2</sub> Te <sub>3</sub> doping. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 11412-9	16.4	259
112	High performance n-type PbTe-based materials for thermoelectric applications. <i>Physica B: Condensed Matter</i> , <b>2005</b> , 363, 196-205	2.8	205
111	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> , <b>2013</b> , 3, 815-820	21.8	172
110	Mechanical properties of PbTe-based thermoelectric semiconductors. <i>Scripta Materialia</i> , <b>2008</b> , 58, 251-254	25.6	111
109	Physical, Mechanical, and Structural Properties of Highly Efficient Nanostructured n- and p-Silicides for Practical Thermoelectric Applications. <i>Journal of Electronic Materials</i> , <b>2014</b> , 43, 1703-1711	1.9	104
108	Phase separation and antisite defects in the thermoelectric TiNiSn half-Heusler alloys. <i>Journal of Solid State Chemistry</i> , <b>2013</b> , 203, 247-254	3.3	104
107	Highly efficient functional GexPb1-xTe based thermoelectric alloys. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 20120-6	3.6	99
106	Hybrid photovoltaic-thermoelectric system for concentrated solar energy conversion: Experimental realization and modeling. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 115104	2.5	93
105	A Comparison Between the Mechanical and Thermoelectric Properties of Three Highly Efficient p-Type GeTe-Rich Compositions: TAGS-80, TAGS-85, and 3% Bi <sub>2</sub> Te <sub>3</sub> -Doped Ge <sub>0.87</sub> Pb <sub>0.13</sub> Te. <i>Journal of Electronic Materials</i> , <b>2013</b> , 42, 1542-1549	1.9	87
104	Functional Graded GermaniumLead Chalcogenide-Based Thermoelectric Module for Renewable Energy Applications. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500272	21.8	85
103	A Comparison Between the Effects of Sb and Bi Doping on the Thermoelectric Properties of the Ti <sub>0.3</sub> Zr <sub>0.35</sub> Hf <sub>0.35</sub> NiSn Half-Heusler Alloy. <i>Journal of Electronic Materials</i> , <b>2014</b> , 43, 1976-1982	1.9	79
102	Thermoelectric power and structural properties in two-phase Sn/SnTe alloys. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 023713	2.5	79
101	An ab initio study of the thermoelectric enhancement potential in nano-grained TiNiSn. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 20023-9	3.6	75
100	Enhancement of the thermoelectric properties of n-type PbTe by Na and Cl co-doping. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 9559-9564	7.1	73
99	Highly textured Bi <sub>2</sub> Te <sub>3</sub> -based materials for thermoelectric energy conversion. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 113707	2.5	73
98	Texture anisotropy of higher manganese silicide following arc-melting and hot-pressing. <i>Intermetallics</i> , <b>2016</b> , 68, 71-77	3.5	72
97	Effective Electronic Mechanisms for Optimizing the Thermoelectric Properties of GeTe-Rich Alloys. <i>Advanced Electronic Materials</i> , <b>2015</b> , 1, 1500228	6.4	71

96	Phase morphology effects on the thermoelectric properties of Pb <sub>0.25</sub> Sn <sub>0.25</sub> Ge <sub>0.5</sub> Te. <i>Acta Materialia</i> , <b>2013</b> , 61, 1499-1507	8.4	70
95	Significant lattice thermal conductivity reduction following phase separation of the highly efficient GexPb <sub>1-x</sub> Te thermoelectric alloys. <i>Physica Status Solidi (B): Basic Research</i> , <b>2014</b> , 251, 1431-1437	1.3	70
94	High Thermoelectric Figure of Merit and Nanostructuring in Bulk p-type Gex(SnyPb <sub>1-y</sub> ) <sub>1-x</sub> Te Alloys Following a Spinodal Decomposition Reaction. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 1054-1058	9.6	70
93	Electronic tuning of the transport properties of off-stoichiometric Pb <sub>x</sub> Sn <sub>1-x</sub> Te thermoelectric alloys by Bi <sub>2</sub> Te <sub>3</sub> doping. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 065102	2.5	69
92	High thermoelectric potential of Bi <sub>2</sub> Te <sub>3</sub> alloyed GeTe-rich phases. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 035102	2.5	69
91	Pb <sub>1-x</sub> Sn <sub>x</sub> Te Alloys: Application Considerations. <i>Journal of Electronic Materials</i> , <b>2011</b> , 40, 533-536	1.9	68
90	Thermoelectric properties of spark plasma sintered composites based on TiNiSn half-Heusler alloys. <i>Journal of Materials Research</i> , <b>2011</b> , 26, 1919-1924	2.5	66
89	High temperature thermoelectric properties evolution of Pb <sub>1-x</sub> Sn <sub>x</sub> Te based alloys. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 722, 33-38	5.7	65
88	Morphological effects on the thermoelectric properties of Ti <sub>0.3</sub> Zr <sub>0.35</sub> Hf <sub>0.35</sub> Ni <sub>1-x</sub> Sn <sub>x</sub> alloys following phase separation. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 11653-11659	7.1	65
87	Powder metallurgical processing of functionally graded p-Pb <sub>1-x</sub> Sn <sub>x</sub> Te materials for thermoelectric applications. <i>Physica B: Condensed Matter</i> , <b>2007</b> , 391, 256-265	2.8	64
86	High thermoelectric potential of n-type Pb <sub>1-x</sub> Ti <sub>x</sub> Te alloys. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 055104	2.5	64
85	Thermoelectric Properties of the Quasi-Binary MnSi <sub>1.73</sub> FeSi <sub>2</sub> System. <i>Journal of Electronic Materials</i> , <b>2015</b> , 44, 1637-1643	1.9	63
84	Development of Bi <sub>2</sub> Te <sub>2.4</sub> Se <sub>0.6</sub> alloy for thermoelectric power generation applications. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 679, 196-201	5.7	62
83	Structural Evolution Following Spinodal Decomposition of the Pseudoternary Compound (Pb <sub>0.3</sub> Sn <sub>0.1</sub> Ge <sub>0.6</sub> )Te. <i>Journal of Electronic Materials</i> , <b>2010</b> , 39, 2165-2171	1.9	61
82	Effects of Microstructural Evolution on the Thermoelectric Properties of Spark-Plasma-Sintered Ti <sub>0.3</sub> Zr <sub>0.35</sub> Hf <sub>0.35</sub> NiSn Half-Heusler Compound. <i>Journal of Electronic Materials</i> , <b>2013</b> , 42, 1340-1345	1.9	60
81	Highly Efficient Ge-Rich Ge <sub>x</sub> Pb <sub>1-x</sub> Te Thermoelectric Alloys. <i>Journal of Electronic Materials</i> , <b>2010</b> , 39, 2049-2052	1.9	58
80	Mechanical Alloying and Spark Plasma Sintering of Higher Manganese Silicides for Thermoelectric Applications. <i>Journal of Electronic Materials</i> , <b>2013</b> , 42, 1926-1931	1.9	56
79	Bonding of Bi <sub>2</sub> Te <sub>3</sub> -Based Thermoelectric Legs to Metallic Contacts Using Bi <sub>0.82</sub> Sb <sub>0.18</sub> Alloy. <i>Journal of Electronic Materials</i> , <b>2016</b> , 45, 1296-1300	1.9	55

78	Highly efficient bismuth telluride doped p-type $\text{Pb}_{0.13}\text{Ge}_{0.87}\text{Te}$ for thermoelectric applications. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2007</b> , 1, 232-234	2.5	55
77	Thermoelectric Properties of (Pb,Sn,Ge)Te-Based Alloys. <i>Journal of Electronic Materials</i> , <b>2009</b> , 38, 1478-1482	5.3	53
76	The search for mechanically stable PbTe based thermoelectric materials. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 033702	2.5	52
75	Silicon-Rich Higher Manganese Silicides for Thermoelectric Applications. <i>Journal of Electronic Materials</i> , <b>2012</b> , 41, 1504-1508	1.9	51
74	Criteria for extending the operation periods of thermoelectric converters based on IV-VI compounds. <i>Journal of Solid State Chemistry</i> , <b>2016</b> , 241, 79-85	3.3	50
73	In-doped $\text{Pb}_{0.5}\text{Sn}_{0.5}\text{Te}$ p-type samples prepared by powder metallurgical processing for thermoelectric applications. <i>Physica B: Condensed Matter</i> , <b>2007</b> , 396, 16-21	2.8	50
72	Phase separation and thermoelectric properties of the $\text{Pb}_{0.25}\text{Sn}_{0.25}\text{Ge}_{0.5}\text{Te}$ compound. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 526, 31-38	5.7	49
71	Thermoelectric properties of p-type didymium (DD) based skutterudites $\text{DDy}(\text{Fe}_{1-x}\text{Ni}_x)_4\text{Sb}_{12}$ ( $0.13 \leq x \leq 0.25$ , $0.46 \leq y \leq 0.68$ ). <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 537, 242-249	5.7	47
70	Thermoelectric Properties Evolution of Spark Plasma Sintered $(\text{Ge}_{0.6}\text{Pb}_{0.3}\text{Sn}_{0.1})\text{Te}$ Following a Spinodal Decomposition. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 13126-13131	3.8	46
69	Investigation of the thermoelectric potential for heating, cooling and ventilation in buildings: Characterization options and applications. <i>Renewable Energy</i> , <b>2019</b> , 131, 229-239	8.1	39
68	Evaluation of the mechanical properties of SS-316L thin foils by small punch testing and finite element analysis. <i>Materials and Design</i> , <b>2015</b> , 83, 75-84	8.1	31
67	Thermoelectric BiTeSe alloys for efficient thermal to electrical energy conversion. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 4092-4099	3.6	29
66	TiNiSn half-Heusler crystals grown from metallic flux for thermoelectric applications. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 781, 1132-1138	5.7	28
65	Characterization of AISI 4340 corrosion products using Raman spectroscopy. <i>Corrosion Science</i> , <b>2013</b> , 74, 414-418	6.8	25
64	Nucleation of nanosize particles following the spinodal decomposition in the pseudo-ternary $\text{Ge}_{0.6}\text{Sn}_{0.1}\text{Pb}_{0.3}\text{Te}$ compound. <i>Scripta Materialia</i> , <b>2010</b> , 62, 89-92	5.6	21
63	Submicron Features in Higher Manganese Silicide. <i>Journal of Nanomaterials</i> , <b>2013</b> , 2013, 1-5	3.2	20
62	Sc solubility in p-type half-Heusler $(\text{Ti}_{1-x}\text{Sc}_x)\text{NiSn}$ thermoelectric alloys. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 729, 446-452	5.7	15
61	Solubility of Ti in thermoelectric PbTe compound. <i>Intermetallics</i> , <b>2017</b> , 89, 16-21	3.5	13

60	Estimation of yield and ultimate stress using the small punch test method applied to non-standard specimens: A computational study validated by experiments. <i>International Journal of Mechanical Sciences</i> , <b>2018</b> , 135, 484-498	5.5	13
59	Phase transitions of p-type (Pb,Sn,Ge)Te-based alloys for thermoelectric applications. <i>Journal of Crystal Growth</i> , <b>2009</b> , 311, 4289-4292	1.6	12
58	Investigation of the Effect of MoSe <sub>2</sub> on the Thermoelectric Properties of n-Type Bi <sub>2</sub> Te <sub>2.4</sub> Se <sub>0.6</sub> . <i>Journal of Electronic Materials</i> , <b>2015</b> , 44, 1402-1407	1.9	11
57	Enhanced Thermoelectric Properties of n-Type Bi <sub>2</sub> Te <sub>3-x</sub> Se <sub>x</sub> Alloys following Melt-Spinning. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 2090-2095	6.1	10
56	Microstructure Evolution of Ag-Alloyed PbTe-Based Compounds and Implications for Thermoelectric Performance. <i>Crystals</i> , <b>2017</b> , 7, 281	2.3	9
55	Thermoelectric transport properties of (TiAl)NiSn half-Heusler alloy. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 1566-1574	3.6	9
54	Surface Oxidation of TiNiSn (Half-Heusler) Alloy by Oxygen and Water Vapor. <i>Materials</i> , <b>2018</b> , 11,	3.5	9
53	Aging condition and trapped hydrogen effects on the mechanical behavior of a precipitation hardened martensitic stainless steel. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 805, 509-516	5.7	8
52	Internal Nano Voids in Yttria-Stabilised Zirconia (YSZ) Powder. <i>Materials</i> , <b>2017</b> , 10,	3.5	8
51	Morphological effects on the electronic transport properties of three-phase thermoelectric materials. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 113721	2.5	8
50	Mechanical Properties of Thermoelectric Materials for Practical Applications <b>2018</b> ,		8
49	Combined electronic and thermodynamic approaches for enhancing the thermoelectric properties of Ti-doped PbTe. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 32429-32437	3.6	7
48	Doping in controlling the type of conductivity in bulk and nanostructured thermoelectric materials. <i>Journal of Solid State Chemistry</i> , <b>2016</b> , 240, 91-100	3.3	7
47	Compatibility between Co-Metallized PbTe Thermoelectric Legs and an Ag-Cu-In Brazing Alloy. <i>Materials</i> , <b>2018</b> , 11,	3.5	7
46	Lattice variations in nanocrystalline Y <sub>2</sub> O <sub>3</sub> confined in magnesia (MgO) matrix. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 801, 375-380	5.7	6
45	Al solubility in (TiAl)NiSn half-Heusler alloy. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 7524-7533	3.6	6
44	The Mechanical Behavior of HAVAR Foils Using the Small Punch Technique. <i>Materials</i> , <b>2017</b> , 10,	3.5	6
43	Thermoelectric properties of Ti <sub>0.3</sub> Zr <sub>0.35</sub> Hf <sub>0.35</sub> Ni <sub>1.005</sub> Sn half-Heusler alloy. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 085110	2.5	5

42	PbOBiO <sub>2</sub> -based glass doped with B <sub>2</sub> O <sub>3</sub> and Na <sub>2</sub> O for coating of thermoelectric materials. <i>Journal of Materials Research</i> , <b>2019</b> , 34, 3563-3572	2.5	5
41	The Initial Stage in Oxidation of ZrNiSn (Half Heusler) Alloy by Oxygen. <i>Materials</i> , <b>2019</b> , 12,	3.5	5
40	Bismuth doping of induction furnace synthesized Mg <sub>2</sub> Si, Mg <sub>2</sub> Sn and Mg <sub>2</sub> Ge thermoelectric compounds. <i>Intermetallics</i> , <b>2020</b> , 120, 106767	3.5	5
39	Thermoelectric and mechanical properties of Ag and Cu doped (GeTe) <sub>0.96</sub> (Bi <sub>2</sub> Te <sub>3</sub> ) <sub>0.04</sub> . <i>MRS Communications</i> , <b>2018</b> , 8, 1292-1299	2.7	5
38	Investigation of the Microstructural and Thermoelectric Properties of the (GeTe) <sub>0.95</sub> (Bi <sub>2</sub> Te <sub>3</sub> ) <sub>0.05</sub> Composition for Thermoelectric Power Generation Applications. <i>Journal of Nanomaterials</i> , <b>2014</b> , 2014, 1-7	3.2	5
37	Rhombohedral-cubic phase transition characterization of (Pb,Ge)Te using high-temperature XRD. <i>Powder Diffraction</i> , <b>2008</b> , 23, 137-140	1.8	5
36	High thermoelectric performance of p-type half-Heusler (Hf,Ti)Co(Sb,Sn) solid solutions fabricated by mechanical alloying. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 858, 158330	5.7	5
35	Phase Stability of Nanocrystalline Grains of Rare-Earth Oxides (SmO and EuO) Confined in Magnesia (MgO) Matrix. <i>Materials</i> , <b>2020</b> , 13,	3.5	4
34	Composition conserving defects and their influence on the electronic properties of thermoelectric TiNiSn. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 8035-8047	3.6	4
33	Influence of galia (Ga <sub>2</sub> O <sub>3</sub> ) addition on the phase transformations and crystal growth behavior of zirconia (ZrO <sub>2</sub> ). <i>Journal of Materials Science</i> , <b>2018</b> , 53, 12741-12749	4.3	4
32	Design, synthesis and characterization of graded n-type PbTe		4
31	Synthesis of n-type PbTe by powder metallurgy		4
30	Thermal shock resistant solid oxide fuel cell ceramic composite electrolytes. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 821, 153490	5.7	4
29	Influence of galia (Ga <sub>2</sub> O <sub>3</sub> ) addition on the phase evolution and grain growth behavior of voided yttria stabilized zirconia (YSZ) powder. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 783, 286-291	5.7	4
28	Metallurgical and Hydrogen Effects on the Small Punch Tested Mechanical Properties of PH-13-8Mo Stainless Steel. <i>Materials</i> , <b>2018</b> , 11,	3.5	4
27	Peculiarities of doping of nanograined thermoelectric TiNiSn by 3d noble and transition metals. <i>Intermetallics</i> , <b>2018</b> , 98, 154-160	3.5	4
26	High entropy alloy on single sub-lattice in MNiSn compound: Stability and thermoelectric properties. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 874, 159940	5.7	4
25	Physical Metallurgy Inspired Nano-Features for Enhancement of Thermoelectric Conversion Efficiency. <i>Advanced Theory and Simulations</i> , <b>2018</b> , 1, 1800072	3.5	3

24	Applying the general effective media (GEM) approach for analyzing the thermal conductivity of ZrO-8YSZ composites. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 16666-16672	3.6	3
23	Evaporation-condensation effects on the thermoelectric performance of PbTe-based couples. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 19326-19333	3.6	3
22	Preparation and Thermoelectric Properties of N-type PbTe Doped with In and PbI <sub>2</sub> <b>2006</b> ,		3
21	Hybrid structural electronics printing by novel dry film stereolithography and laser induced forward transfer. <i>Nano Select</i> , <b>2021</b> , 2, 979-991	3.1	3
20	Orienting MoS <sub>2</sub> flakes into ordered films. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 7353-7359	4.3	2
19	Ion-induced n-p inversion of conductivity in TiNiSn compound for thermoelectric applications. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 155106	2.5	2
18	n-type (Zr,Ti)NiSn half Heusler materials via mechanical alloying: Structure, Sb-doping and thermoelectric properties. <i>Journal of Physics and Chemistry of Solids</i> , <b>2022</b> , 110735	3.9	2
17	The origin of the effect of aging on the thermoelectric power of maraging C250 steel. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 7698-7704	4.3	1
16	Simulation of Morphological Effects on Thermoelectric Power, Thermal and Electrical Conductivity in Multi-Phase Thermoelectric Materials <b>2016</b> ,		1
15	PbO-SiO <sub>2</sub> Based Glass Coating of PbI <sub>2</sub> Doped PbTe. <i>Metals</i> , <b>2020</b> , 10, 284	2.3	1
14	APPLYING TEP MEASUREMENTS TO ASSESS THE AGING STAGE OF MARAGING 250 STEEL. <i>AIP Conference Proceedings</i> , <b>2008</b> ,	0	1
13	Development of p-Pb <sub>1-x</sub> Sn <sub>x</sub> Te Functionally Graded Materials <b>2006</b> ,		1
12	Improved power factor of Bi <sub>0.4</sub> Sb <sub>1.6</sub> Te <sub>3</sub> - based samples prepared by cold pressing and sintering <b>2006</b> ,		1
11	Optimization of thermoelectric efficiency in graded materials		1
10	Electronic properties of co-doped nonstoichiometric germanium telluride. <i>Intermetallics</i> , <b>2021</b> , 131, 107118	3.5	1
9	Vertical power MOS transistor as a thermoelectric quasi-nanowire device. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 244903	2.5	1
8	Co-doping effect on the electronic properties of nonstoichiometric tin telluride. <i>MRS Advances</i> , <b>2019</b> , 4, 1699-1707	0.7	1
7	Lattice variation of cubic Y <sub>2</sub> O <sub>3</sub> in three dimensions: Temperature, pressure and crystal size. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 885, 161199	5.7	1

6	Enhanced thermoelectric properties of n-type Ti-doped PbTe. <i>MRS Advances</i> , <b>2019</b> , 4, 1683-1689	0.7	o
5	Reduction of Hf via Hf/Zr Substitution in Mechanically Alloyed (Hf,Ti)CoSb Half-Heusler Solid Solutions. <i>Inorganics</i> , <b>2022</b> , 10, 51	2.9	o
4	Utilizing Phase Separation Reactions for Enhancement of the Thermoelectric Efficiency in IV-VI Alloys. <i>Advanced Micro &amp; Nanosystems</i> , <b>2017</b> , 1-13		
3	Mechanical properties of proton bombarded SS316L thin foils using the small punch technique. <i>Journal of Nuclear Materials</i> , <b>2020</b> , 540, 152340	3.3	
2	Highly Efficient Segmented p-type Thermoelectric Leg. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , <b>2013</b> , 59-65	0.2	
1	Microstructural effects on the thermoelectric performance of Ge <sub>0.962</sub> Bi <sub>0.038</sub> Te <sub>1.057</sub> . <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 918, 165663	5.7	