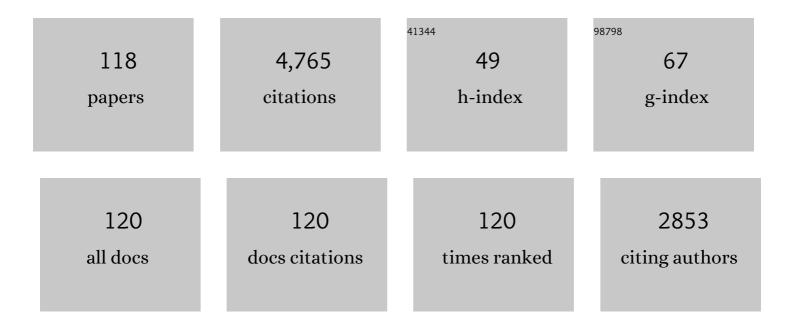
## Yaniv Gelbstein

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	n-type (Zr,Ti)NiSn half Heusler materials via mechanical alloying: Structure, Sb-doping and thermoelectric properties. Journal of Physics and Chemistry of Solids, 2022, 167, 110735.	4.0	9
2	Reduction of Hf via Hf/Zr Substitution in Mechanically Alloyed (Hf,Ti)CoSb Half-Heusler Solid Solutions. Inorganics, 2022, 10, 51.	2.7	4
3	Microstructural effects on the thermoelectric performance of Ge0.962Bi0.038Te1.057. Journal of Alloys and Compounds, 2022, 918, 165663.	5.5	2
4	High thermoelectric performance of p-type half-Heusler (Hf,Ti)Co(Sb,Sn) solid solutions fabricated by mechanical alloying. Journal of Alloys and Compounds, 2021, 858, 158330.	5.5	14
5	Hybrid structural electronics printing by novel dry film stereolithography and laser induced forward transfer. Nano Select, 2021, 2, 979-991.	3.7	6
6	Electronic properties of co-doped nonstoichiometric germanium telluride. Intermetallics, 2021, 131, 107118.	3.9	2
7	The Initial Oxidation of HfNiSn Half-Heusler Alloy by Oxygen and Water Vapor. Materials, 2021, 14, 3942.	2.9	2
8	High entropy alloy on single sub-lattice in MNiSn compound: Stability and thermoelectric properties. Journal of Alloys and Compounds, 2021, 874, 159940.	5.5	5
9	Lattice variation of cubic Y2O3 in three dimensions: Temperature, pressure and crystal size. Journal of Alloys and Compounds, 2021, 885, 161199.	5.5	5
10	Thermoelectric transport properties of (Ti1â^'cAlc)NiSn half-Heusler alloy. Physical Chemistry Chemical Physics, 2020, 22, 1566-1574.	2.8	11
11	Thermal shock resistant solid oxide fuel cell ceramic composite electrolytes. Journal of Alloys and Compounds, 2020, 821, 153490.	5.5	10
12	Enhanced Thermoelectric Properties of n-Type Bi <sub>2</sub> Te <sub>3–<i>x</i></sub> Se <i><sub><i>x</i></sub></i> Alloys following Melt-Spinning. ACS Applied Energy Materials, 2020, 3, 2090-2095.	5.1	26
13	Phase Stability of Nanocrystalline Grains of Rare-Earth Oxides (Sm2O3 and Eu2O3) Confined in Magnesia (MgO) Matrix. Materials, 2020, 13, 2201.	2.9	14
14	Composition conserving defects and their influence on the electronic properties of thermoelectric TiNiSn. Physical Chemistry Chemical Physics, 2020, 22, 8035-8047.	2.8	7
15	Bismuth doping of induction furnace synthesized Mg2Si, Mg2Sn and Mg2Ge thermoelectric compounds. Intermetallics, 2020, 120, 106767.	3.9	9
16	Mechanical properties of proton bombarded SS316L thin foils using the small punch technique. Journal of Nuclear Materials, 2020, 540, 152340.	2.7	0
17	PbO-SiO2 Based Glass Coating of PbI2 Doped PbTe. Metals, 2020, 10, 284.	2.3	1
18	Investigation of the thermoelectric potential for heating, cooling and ventilation in buildings: Characterization options and applications. Renewable Energy, 2019, 131, 229-239.	8.9	57

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19	Aging condition and trapped hydrogen effects on the mechanical behavior of a precipitation hardened martensitic stainless steel. Journal of Alloys and Compounds, 2019, 805, 509-516.	5.5	16
20	Thermoelectric properties of Ti0.3Zr0.35Hf0.35Ni1.005Sn half-Heusler alloy. Journal of Applied Physics, 2019, 126, .	2.5	8
21	PbO–SiO <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. Journal of Materials Research, 2019, 34, 3563-3572.	2.6	7
22	Lattice variations in nanocrystalline Y2O3 confined in magnesia (MgO) matrix. Journal of Alloys and Compounds, 2019, 801, 375-380.	5.5	7
23	Enhanced thermoelectric properties of n-type Ti-doped PbTe. MRS Advances, 2019, 4, 1683-1689.	0.9	1
24	The Initial Stage in Oxidation of ZrNiSn (Half Heusler) Alloy by Oxygen. Materials, 2019, 12, 1509.	2.9	11
25	Al solubility in (Ti <sub>1â^'c</sub> Al <sub>c</sub> )NiSn half-Heusler alloy. Physical Chemistry Chemical Physics, 2019, 21, 7524-7533.	2.8	6
26	Ion-induced n-p inversion of conductivity in TiNiSn compound for thermoelectric applications. Journal of Applied Physics, 2019, 126, 155106.	2.5	3
27	Co-doping effect on the electronic properties of nonstoichiometric tin telluride. MRS Advances, 2019, 4, 1699-1707.	0.9	1
28	Influence of galia (Ga2O3) addition on the phase evolution and grain growth behavior of voided yttria stabilized zirconia (YSZ) powder. Journal of Alloys and Compounds, 2019, 783, 286-291.	5.5	4
29	TiNiSn half-Heusler crystals grown from metallic flux for thermoelectric applications. Journal of Alloys and Compounds, 2019, 781, 1132-1138.	5.5	61
30	Thermoelectric Bi <sub>2</sub> Te <sub>3â^'x</sub> Se <sub>x</sub> alloys for efficient thermal to electrical energy conversion. Physical Chemistry Chemical Physics, 2018, 20, 4092-4099.	2.8	63
31	Estimation of yield and ultimate stress using the small punch test method applied to non-standard specimens: A computational study validated by experiments. International Journal of Mechanical Sciences, 2018, 135, 484-498.	6.7	17
32	Metallurgical and Hydrogen Effects on the Small Punch Tested Mechanical Properties of PH-13-8Mo Stainless Steel. Materials, 2018, 11, 1966.	2.9	8
33	Surface Oxidation of TiNiSn (Half-Heusler) Alloy by Oxygen and Water Vapor. Materials, 2018, 11, 2296.	2.9	16
34	Compatibility between Co-Metallized PbTe Thermoelectric Legs and an Ag–Cu–In Brazing Alloy. Materials, 2018, 11, 99.	2.9	14
35	Peculiarities of doping of nanograined thermoelectric TiNiSn by 3d noble and transition metals. Intermetallics, 2018, 98, 154-160.	3.9	4
36	Physical Metallurgy Inspired Nanoâ€Features for Enhancement of Thermoelectric Conversion Efficiency. Advanced Theory and Simulations, 2018, 1, 1800072.	2.8	6

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37	Thermoelectric and mechanical properties of Ag and Cu doped (GeTe)0.96(Bi2Te3)0.04. MRS Communications, 2018, 8, 1292-1299.	1.8	7
38	Applying the general effective media (GEM) approach for analyzing the thermal conductivity of ZrO2–8YSZ composites. Physical Chemistry Chemical Physics, 2018, 20, 16666-16672.	2.8	4
39	Influence of galia (Ga2O3) addition on the phase transformations and crystal growth behavior of zirconia (ZrO2). Journal of Materials Science, 2018, 53, 12741-12749.	3.7	7
40	Solubility of Ti in thermoelectric PbTe compound. Intermetallics, 2017, 89, 16-21.	3.9	49
41	High temperature thermoelectric properties evolution of Pb1-Sn Te based alloys. Journal of Alloys and Compounds, 2017, 722, 33-38.	5.5	72
42	Sc solubility in p-type half-Heusler (Ti1-Sc )NiSn thermoelectric alloys. Journal of Alloys and Compounds, 2017, 729, 446-452.	5.5	31
43	Evaporation–condensation effects on the thermoelectric performance of PbTe-based couples. Physical Chemistry Chemical Physics, 2017, 19, 19326-19333.	2.8	4
44	The Mechanical Behavior of HAVAR Foils Using the Small Punch Technique. Materials, 2017, 10, 491.	2.9	8
45	Internal Nano Voids in Yttria-Stabilised Zirconia (YSZ) Powder. Materials, 2017, 10, 1440.	2.9	9
46	Microstructure Evolution of Ag-Alloyed PbTe-Based Compounds and Implications for Thermoelectric Performance. Crystals, 2017, 7, 281.	2.2	13
47	High thermoelectric potential of Bi2Te3 alloyed GeTe-rich phases. Journal of Applied Physics, 2016, 120, .	2.5	75
48	Vertical power MOS transistor as a thermoelectric quasi-nanowire device. Journal of Applied Physics, 2016, 120, 244903.	2.5	1
49	High thermoelectric potential of <i>n</i> -type Pb1â^' <i>x</i> Ti <i>x</i> Te alloys. Journal of Applied Physics, 2016, 120, .	2.5	70
50	Doping in controlling the type of conductivity in bulk and nanostructured thermoelectric materials. Journal of Solid State Chemistry, 2016, 240, 91-100.	2.9	8
51	Texture anisotropy of higher manganese silicide following arc-melting and hot-pressing. Intermetallics, 2016, 68, 71-77.	3.9	80
52	Development of Bi2Te2.4Se0.6 alloy for thermoelectric power generation applications. Journal of Alloys and Compounds, 2016, 679, 196-201.	5.5	67
53	Combined electronic and thermodynamic approaches for enhancing the thermoelectric properties of Ti-doped PbTe. Physical Chemistry Chemical Physics, 2016, 18, 32429-32437.	2.8	7
54	Criteria for extending the operation periods of thermoelectric converters based on IV-VI compounds. Journal of Solid State Chemistry, 2016, 241, 79-85.	2.9	65

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55	Bonding of Bi2Te3-Based Thermoelectric Legs to Metallic Contacts Using Bi0.82Sb0.18 Alloy. Journal of Electronic Materials, 2016, 45, 1296-1300.	2.2	56
56	Hybrid photovoltaic-thermoelectric system for concentrated solar energy conversion: Experimental realization and modeling. Journal of Applied Physics, 2015, 118, .	2.5	121
57	Effective Electronic Mechanisms for Optimizing the Thermoelectric Properties of GeTeâ€Rich Alloys. Advanced Electronic Materials, 2015, 1, 1500228.	5.1	79
58	Investigation of the Effect of MoSe2 on the Thermoelectric Properties of n-Type Bi2Te2.4Se0.6. Journal of Electronic Materials, 2015, 44, 1402-1407.	2.2	12
59	Evaluation of the mechanical properties of SS-316L thin foils by small punch testing and finite element analysis. Materials and Design, 2015, 83, 75-84.	7.0	43
60	Thermoelectric Properties of the Quasi-Binary MnSi1.73–FeSi2 System. Journal of Electronic Materials, 2015, 44, 1637-1643.	2.2	70
61	Functional Graded Germanium–Lead Chalcogenideâ€Based Thermoelectric Module for Renewable Energy Applications. Advanced Energy Materials, 2015, 5, 1500272.	19.5	95
62	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+δ</sub> Sn alloys following phase separation. Journal of Materials Chemistry C, 2015, 3, 11653-11659.	5.5	71
63	The origin of the effect of aging on the thermoelectric power of maraging C250 steel. Journal of Materials Science, 2015, 50, 7698-7704.	3.7	2
64	Enhancement of the thermoelectric properties of n-type PbTe by Na and Cl co-doping. Journal of Materials Chemistry C, 2015, 3, 9559-9564.	5.5	79
65	Electronic tuning of the transport properties of off-stoichiometric Pb <i>x</i> Sn1â^' <i>x</i> Te thermoelectric alloys by Bi2Te3 doning Journal of Applied Physics, 2015, 118 Investigation of the Microstructural and Thermoelectric Properties of the <mml:math websigation of the Microstructural and thermoelectric Properties of the<mml:math< td=""><td>2.5</td><td>75</td></mml:math<></mml:math 	2.5	75
66	xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"> <mml:mrow><mml:msub><mml:mrow><mml:mo stretchy="false"&gt;(<mml:mtext>GeTe</mml:mtext><mml:mo) 0="" 10="" 2<="" 50="" etqq0="" overlock="" rgbt="" td="" tf="" tj=""><td>972<b>Tr</b>d (str</td><td>etaloy="false'</td></mml:mo)></mml:mo </mml:mrow></mml:msub></mml:mrow>	972 <b>Tr</b> d (str	etaloy="false'
67	xmlns:mml="http://www.w3.org/1998/Math/MathML" Sightficant lattice:thermahoonductivity:reduction following phase separation of the highly efficient Ge <sub> <i>x</i> </sub> Pb <sub>1-<i>x</i> </sub> Te thermoelectric alloys. Physica Status Solidi (B): Basic Research, 2014, 251, 1431-1437.	1.5	76
68	A Comparison Between the Effects of Sb and Bi Doping on the Thermoelectric Properties of the Ti0.3Zr0.35Hf0.35NiSn Half-Heusler Alloy. Journal of Electronic Materials, 2014, 43, 1976-1982.	2.2	80
69	An ab initio study of the thermoelectric enhancement potential in nano-grained TiNiSn. Physical Chemistry Chemical Physics, 2014, 16, 20023-20029.	2.8	84
70	Origin of the High Performance in GeTe-Based Thermoelectric Materials upon Bi <sub>2</sub> Te <sub>3</sub> Doping. Journal of the American Chemical Society, 2014, 136, 11412-11419.	13.7	319
71	Highly efficient functional Ge <sub>x</sub> Pb <sub>1â^'x</sub> Te based thermoelectric alloys. Physical Chemistry Chemical Physics, 2014, 16, 20120-20126.	2.8	111
72	Orienting MoS2 flakes into ordered films. Journal of Materials Science, 2014, 49, 7353-7359.	3.7	2

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73	Physical, Mechanical, and Structural Properties of Highly Efficient Nanostructured n- and p-Silicides for Practical Thermoelectric Applications. Journal of Electronic Materials, 2014, 43, 1703-1711.	2.2	119
74	Effects of Microstructural Evolution on the Thermoelectric Properties of Spark-Plasma-Sintered Ti0.3Zr0.35Hf0.35NiSn Half-Heusler Compound. Journal of Electronic Materials, 2013, 42, 1340-1345.	2.2	62
75	A Comparison Between the Mechanical and Thermoelectric Properties of Three Highly Efficient p-Type GeTe-Rich Compositions: TAGS-80, TAGS-85, and 3% Bi2Te3-Doped Ge0.87Pb0.13Te. Journal of Electronic Materials, 2013, 42, 1542-1549.	2.2	104
76	Mechanical Alloying and Spark Plasma Sintering of Higher Manganese Silicides for Thermoelectric Applications. Journal of Electronic Materials, 2013, 42, 1926-1931.	2.2	60
77	Phase morphology effects on the thermoelectric properties of Pb0.25Sn0.25Ge0.5Te. Acta Materialia, 2013, 61, 1499-1507.	7.9	74
78	Phase separation and antisite defects in the thermoelectric TiNiSn half-Heusler alloys. Journal of Solid State Chemistry, 2013, 203, 247-254.	2.9	113
79	Controlling Metallurgical Phase Separation Reactions of the Ge <sub>0.87</sub> Pb <sub>0.13</sub> Te Alloy for High Thermoelectric Performance. Advanced Energy Materials, 2013, 3, 815-820.	19.5	202
80	Characterization of AISI 4340 corrosion products using Raman spectroscopy. Corrosion Science, 2013, 74, 414-418.	6.6	32
81	Submicron Features in Higher Manganese Silicide. Journal of Nanomaterials, 2013, 2013, 1-5.	2.7	53
82	Morphological effects on the electronic transport properties of three-phase thermoelectric materials. Journal of Applied Physics, 2012, 112, .	2.5	9
83	Phase separation and thermoelectric properties of the Pb0.25Sn0.25Ge0.5Te compound. Journal of Alloys and Compounds, 2012, 526, 31-38.	5.5	53
84	Thermoelectric properties of p-type didymium (DD) based skutterudites DDy(Fe1â^'xNix)4Sb12 (0.13⩽xâ©ϟ	∕20,25,) Tj⊺	ETQq0 0 0 rg
85	Silicon-Rich Higher Manganese Silicides for Thermoelectric Applications. Journal of Electronic Materials, 2012, 41, 1504-1508.	2.2	57
86	Pb1â^'x Sn x Te Alloys: Application Considerations. Journal of Electronic Materials, 2011, 40, 533-536.	2.2	76
87	Thermoelectric properties of spark plasma sintered composites based on TiNiSn half-Heusler alloys. Journal of Materials Research, 2011, 26, 1919-1924.	2.6	71
88	Structural Evolution Following Spinodal Decomposition of the Pseudoternary Compound (Pb0.3Sn0.1Ge0.6)Te. Journal of Electronic Materials, 2010, 39, 2165-2171.	2.2	61
89	Highly Efficient Ge-Rich Ge x Pb1â^'x Te Thermoelectric Alloys. Journal of Electronic Materials, 2010, 39, 2049-2052.	2.2	64

Nucleation of nanosize particles following the spinodal decomposition in the pseudo-ternary Ge0.6Sn0.1Pb0.3Te compound. Scripta Materialia, 2010, 62, 89-92.

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91	High Thermoelectric Figure of Merit and Nanostructuring in Bulk <i>p</i> -type Ge <sub><i>x</i></sub> (Sn <sub><i>y</i></sub> Pb <sub>1â^'<i>y</i></sub> ) <sub>1â^'<i>x</i></sub> Te Alloys Following a Spinodal Decomposition Reaction. Chemistry of Materials, 2010, 22, 1054-1058.	6.7	75
92	Thermoelectric Properties Evolution of Spark Plasma Sintered (Ge <sub>0.6</sub> Pb <sub>0.3</sub> Sn <sub>0.1</sub> )Te Following a Spinodal Decomposition. Journal of Physical Chemistry C, 2010, 114, 13126-13131.	3.1	59
93	APPLYING TEP MEASUREMENTS TO ASSESS THE RESPONSE OF HASTELLOY TO LONG TIME AGING. , 2009, , .		0
94	Thermoelectric power and structural properties in two-phase Sn/SnTe alloys. Journal of Applied Physics, 2009, 105, .	2.5	90
95	Thermoelectric Properties of (Pb,Sn,Ge)Te-Based Alloys. Journal of Electronic Materials, 2009, 38, 1478-1482.	2.2	54
96	Phase transitions of p-type (Pb,Sn,Ge)Te-based alloys for thermoelectric applications. Journal of Crystal Growth, 2009, 311, 4289-4292.	1.5	14
97	Mechanical properties of PbTe-based thermoelectric semiconductors. Scripta Materialia, 2008, 58, 251-254.	5.2	137
98	The search for mechanically stable PbTe based thermoelectric materials. Journal of Applied Physics, 2008, 104, .	2.5	65
99	KINETIC STUDY OF AGING IN A URANIUM-TITANIUM EUTECTOID ALLOY USING THERMOELECTRIC POWER MEASUREMENT. AIP Conference Proceedings, 2008, , .	0.4	0
100	APPLYING TEP MEASUREMENTS TO ASSESS THE AGING STAGE OF MARAGING 250 STEEL. AIP Conference Proceedings, 2008, , .	0.4	3
101	Rhombohedral-cubic phase transition characterization of (Pb,Ge)Te using high-temperature XRD. Powder Diffraction, 2008, 23, 137-140.	0.2	6
102	Functionally Graded Bi <inf>2</inf> Te <inf>3</inf> based material for above ambient temperature application. , 2007, , .		0
103	Powder metallurgical processing of functionally graded p-Pb1â^'xSnxTe materials for thermoelectric applications. Physica B: Condensed Matter, 2007, 391, 256-265.	2.7	71
104	In-doped Pb0.5Sn0.5Te p-type samples prepared by powder metallurgical processing for thermoelectric applications. Physica B: Condensed Matter, 2007, 396, 16-21.	2.7	51
105	Highly efficient bismuth telluride doped pâ€ŧype Pb <sub>0.13</sub> Ge <sub>0.87</sub> Te for thermoelectric applications. Physica Status Solidi - Rapid Research Letters, 2007, 1, 232-234.	2.4	57
106	Highly textured Bi2Te3-based materials for thermoelectric energy conversion. Journal of Applied Physics, 2007, 101, 113707.	2.5	89
107	Preparation and Thermoelectric Properties of N-type PbTe Doped with In and PbI2. , 2006, , .		3

108 Thermoelectric Properties of p-type In-doped Pb1-xSnxTe. , 2006, , .

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109	Development of p-Pb1-xSnxTe Functionally Graded Materials. , 2006, , .		1
110	Improved power factor of Bi0.4Sb1.6Te3 - based samples prepared by cold pressing and sintering. , 2006, ,		2
111	High performance n-type PbTe-based materials for thermoelectric applications. Physica B: Condensed Matter, 2005, 363, 196-205.	2.7	231
112	Synthesis of n-type PbTe by powder metallurgy. , 0, , .		6
113	Design, synthesis and characterization of graded n-type PbTe. , 0, , .		4
114	Transport properties of PbI/sub 2/-doped PbTe. , 0, , .		0
115	Optimization of thermoelectric efficiency in graded materials. , 0, , .		2
116	Simulation of Morphological Effects on Thermoelectric Power, Thermal and Electrical Conductivity in Multiâ€Phase Thermoelectric Materials. , 0, , .		2
117	Mechanical Properties of Thermoelectric Materials for Practical Applications. , 0, , .		15
118	Bismuth Telluride Solubility Limit and Dopant Effects on the Electronic Properties of Lead Telluride. , 0, , .		0