Eric S Toberer

List of Publications by Year
in descending order

144 papers	22,919 citations	41627 51 h-index	14386 132 g-index
148 all docs	148 docs citations	148 times ranked	16601 citing authors

#	Article	IF	Citations
1	Complex thermoelectric materials. Nature Materials, 2008, 7, 105-114.	13.3	9,012
2	Enhancement of Thermoelectric Efficiency in PbTe by Distortion of the Electronic Density of States. Science, 2008, 321, 554-557.	6.0	3,442
3	Phonon engineering through crystal chemistry. Journal of Materials Chemistry, 2011, 21, 15843.	6.7	719
4	Zintl Chemistry for Designing High Efficiency Thermoelectric Materials. Chemistry of Materials, 2010, 22, 624-634.	3.2	560
5	High Thermoelectric Performance in PbTe Due to Large Nanoscale Ag2Te Precipitates and La Doping. Advanced Functional Materials, 2011, 21, 241-249.	7.8	484
6	New kagome prototype materials: discovery of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>KV</mml:mi><mml:mn>3</mml:mn></mml: , and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CsV</mml:mi><mml:mn>3</mml:mn></m. Physical Review Materials, 2019, 3, .	0.9	398
7	[illegible] xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>n</mml:mi></mml:math>-type<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Ba</mml:mtext></mml:mrow><mml:mn>8</mml:mn></mml:m Physical Review B, 2009, 80, .	1.1	364
8	New frontiers for the materials genome initiative. Npj Computational Materials, 2019, 5, .	3.5	312
9	Giant, unconventional anomalous Hall effect in the metallic frustrated magnet candidate, KV ₃ Sb ₅. Science Advances, 2020, 6, eabb6003.	4.7	295
10	Traversing the Metalâ€Insulator Transition in a Zintl Phase: Rational Enhancement of Thermoelectric Efficiency in Yb₁₄Mn_{1â^'x}Al_xSb₁₁. Advanced Functional Materials, 2008, 18, 2795-2800.	7.8	294
11	Phase Boundary Mapping to Obtain n-type Mg3Sb2-Based Thermoelectrics. Joule, 2018, 2, 141-154.	11.7	274
12	A high temperature apparatus for measurement of the Seebeck coefficient. Review of Scientific Instruments, 2011, 82, 063905.	0.6	255
13	Advances in Thermal Conductivity. Annual Review of Materials Research, 2012, 42, 179-209.	4.3	250
14	Material descriptors for predicting thermoelectric performance. Energy and Environmental Science, 2015, 8, 983-994.	15.6	241
15	Concentrated solar thermoelectric generators. Energy and Environmental Science, 2012, 5, 9055.	15.6	227
16	Measurement of the electrical resistivity and Hall coefficient at high temperatures. Review of Scientific Instruments, 2012, 83, 123902.	0.6	223
17	A practical field guide to thermoelectrics: Fundamentals, synthesis, and characterization. Applied Physics Reviews, 2018, 5, 021303.	5.5	223
18	Mechanochemical synthesis and thermoelectric properties of high quality magnesium silicide. Journal of Materials Chemistry, 2011, 21, 12259.	6.7	204

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19	Ca₃AlSb₃: an inexpensive, non-toxic thermoelectric material for waste heat recovery. Energy and Environmental Science, 2011, 4, 510-518.	15.6	202
20	Electronic structure and transport in thermoelectric compounds AZn2Sb2 (A = Sr, Ca, Yb, Eu). Dalton Transactions, 2010, 39, 1046-1054.	1.6	184
21	Computationally guided discovery of thermoelectric materials. Nature Reviews Materials, 2017, 2, .	23.3	184
22	The Zintl Compound Ca₅Al₂Sb₆ for Lowâ€Cost Thermoelectric Power Generation. Advanced Functional Materials, 2010, 20, 4375-4380.	7.8	180
23	Synthesis, structure, and optoelectronic properties of IIâ€“IVâ€“V₂materials. Journal of Materials Chemistry A, 2017, 5, 11418-11435.	5.2	145
24	Composition and the thermoelectric performance of Î²-Zn4Sb3. Journal of Materials Chemistry, 2010, 20, 9877.	6.7	139
25	High temperature thermoelectric efficiency in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Ba</mml:mi><mml:mn>8</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Ga</mml:mi><mml:mn>16</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Ge</mml:mi><mml:mn>30</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2008, 77, .	1.1	138
26	Control of Doping in Cu₂SnS₃ through Defects and Alloying. Chemistry of Materials, 2014, 26, 4951-4959.	3.2	136
27	Improved Thermoelectric Performance in Yb₁₄Mn_{1â^'x}Zn_xSb₁₁ by the Reduction of Spin-Disorder Scattering. Chemistry of Materials, 2008, 20, 3412-3419.	3.2	132
28	Combinatorial insights into doping control and transport properties of zinc tin nitride. Journal of Materials Chemistry C, 2015, 3, 11017-11028.	2.7	128
29	Evaluation of photovoltaic materials within the Cu-Sn-S family. Applied Physics Letters, 2013, 103, .	1.5	117
30	High thermoelectric efficiency in lanthanum doped Yb14MnSb11. Applied Physics Letters, 2008, 93, .	1.5	111
31	TE Design Lab: A virtual laboratory for thermoelectric material design. Computational Materials Science, 2016, 112, 368-376.	1.4	98
32	Structure, Heat Capacity, and High-Temperature Thermal Properties of Yb₁₄Mn_{1â^'x}Al_xSb₁₁. Chemistry of Materials, 2009, 21, 1354-1360.	3.2	92
33	Capturing Anharmonicity in a Lattice Thermal Conductivity Model for High-Throughput Predictions. Chemistry of Materials, 2017, 29, 2494-2501.	3.2	88
34	Effective thermal conductivity in thermoelectric materials. Journal of Applied Physics, 2013, 113, .	1.1	86
35	Investigation of n-type doping strategies for Mg₃Sb₂. Journal of Materials Chemistry A, 2018, 6, 13806-13815.	5.2	80
36	Monte Carlo simulations of disorder in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>ZnSn</mml:mi><mml:msub><mml:mi mathvariant="normal">N</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> and the effects on the electronic structure. Physical Review Materials, 2017, 1, .	0.9	79

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37	Macroporous Manganese Oxides with Regenerative Mesopores. Journal of the American Chemical Society, 2006, 128, 1462-1463.	6.6	78
38	A review of defects and disorder in multinary tetrahedrally bonded semiconductors. Semiconductor Science and Technology, 2016, 31, 123004.	1.0	74
39	Effects of Disorder on Carrier Transport in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>Cu</mml:mi></mml:mrow><mml:mrow><mml:mn>2</ Physical Review Applied, 2015, 4, .	1.5	73
40	SnO as a potential oxide thermoelectric candidate. Journal of Materials Chemistry C, 2017, 5, 8854-8861.	2.7	72
41	Thermoelectric properties of p-type LiZnSb: Assessment of ab initio calculations. Journal of Applied Physics, 2009, 105, .	1.1	62
42	Synthesis of Group IV Clathrates for Photovoltaics. IEEE Journal of Photovoltaics, 2013, 3, 1305-1310.	1.5	62
43	First-principles calculation of intrinsic defect chemistry and self-doping in PbTe. Npj Computational Materials, 2017, 3, .	3.5	62
44	Search for new thermoelectric materials with low Lorenz number. Journal of Materials Chemistry A, 2017, 5, 17302-17311.	5.2	60
45	Thermoelectric Performance and Defect Chemistry in n-Type Zintl KGaSb₄. Chemistry of Materials, 2017, 29, 4523-4534.	3.2	59
46	Performance modeling and techno-economic analysis of a modular concentrated solar power tower with latent heat storage. Applied Energy, 2018, 217, 143-152.	5.1	58
47	Effects of Hydrogen on Acceptor Activation in Ternary Nitride Semiconductors. Advanced Electronic Materials, 2017, 3, 1600544.	2.6	56
48	Synthesis and optical band gaps of alloyed Siâ€“Ge type II clathrates. Journal of Materials Chemistry C, 2014, 2, 3231-3237.	2.7	55
49	Effect of extended strain fields on point defect phonon scattering in thermoelectric materials. Physical Chemistry Chemical Physics, 2015, 17, 19410-19423.	1.3	55
50	Computational identification of promising thermoelectric materials among known quasi-2D binary compounds. Journal of Materials Chemistry A, 2016, 4, 11110-11116.	5.2	55
51	Potential for high thermoelectric performance in n-type Zintl compounds: a case study of Ba doped KAlSb₄. Journal of Materials Chemistry A, 2017, 5, 4036-4046.	5.2	55
52	Template-free routes to porous inorganic materials. Chemical Communications, 2006, , 3159.	2.2	51
53	Improved thermoelectric cooling based on the Thomson effect. Physical Review B, 2012, 86, .	1.1	51
54	Improved carrier concentration control in Zn-doped Ca5Al2Sb6. Journal of Applied Physics, 2011, 110, .	1.1	50

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55	Solar energy conversion properties and defect physics of ZnSiP₂. Energy and Environmental Science, 2016, 9, 1031-1041.	15.6	49
56	Utilizing Site Disorder in the Development of New Energy-Relevant Semiconductors. ACS Energy Letters, 2020, 5, 2027-2041.	8.8	46
57	High Seebeck Coefficient and Unusually Low Thermal Conductivity Near Ambient Temperatures in Layered Compound Yb_{2â€“x}Eu_xCdSb₂. Chemistry of Materials, 2018, 30, 484-493.	3.2	45
58	Template-Free Routes to Macroporous Monoliths of Nickel and Iron Oxides:Â Toward Porous Metals and Conformally Coated Pore Walls. Chemistry of Materials, 2005, 17, 2142-2147.	3.2	44
59	Entropic stabilization and retrograde solubility in Zn4Sb3. Physical Review B, 2011, 83, .	1.1	41
60	Exciton photoluminescence and benign defect complex formation in zinc tin nitride. Materials Horizons, 2018, 5, 823-830.	6.4	41
61	Macroporous Monoliths of Functional Perovskite Materials through Assisted Metathesis. Chemistry of Materials, 2004, 16, 2194-2200.	3.2	40
62	Efficient route to phase selective synthesis of type II silicon clathrates with low sodium occupancy. CrystEngComm, 2014, 16, 3940-3949.	1.3	39
63	Computational Exploration of the Binary A₁B₁ Chemical Space for Thermoelectric Performance. Chemistry of Materials, 2015, 27, 6213-6221.	3.2	38
64	High-Temperature Transport Properties of the Zintl Phases Yb₁₁GaSb₉ and Yb₁₁InSb₉. Chemistry of Materials, 2010, 22, 935-941.	3.2	37
65	Effective n-type doping of Mg3Sb2 with group-3 elements. Journal of Applied Physics, 2019, 125, .	1.1	37
66	High-resolution nanostructural investigation of Zn4Sb3 alloys. Scripta Materialia, 2010, 63, 784-787.	2.6	36
67	Thermoelectric properties of bromine filled CoSb₃ skutterudite. Journal of Materials Chemistry A, 2016, 4, 8444-8450.	5.2	36
68	On the Dopability of Semiconductors and Governing Material Properties. Chemistry of Materials, 2020, 32, 4467-4480.	3.2	34
69	Ternary Nitride Materials: Fundamentals and Emerging Device Applications. Annual Review of Materials Research, 2021, 51, 591-618.	4.3	34
70	Predicted Electronic and Thermodynamic Properties of a Newly Discovered Zn₈Sb₇ Phase. Journal of the American Chemical Society, 2011, 133, 11255-11261.	6.6	33
71	High-Temperature High-Efficiency Solar Thermoelectric Generators. Journal of Electronic Materials, 2014, 43, 2348-2355.	1.0	33
72	Transport properties of the layered Zintl compound SrZnSb2. Journal of Applied Physics, 2009, 106, .	1.1	32

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73	Optical band study of thermoelectric Zintl-phase<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SrZn</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>YbZn</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2010, 81, .	1.1	32
74	Experimental demonstration of a dispatchable latent heat storage system with aluminum-silicon as a phase change material. Applied Energy, 2018, 230, 1218-1229.	5.1	32
75	Hierarchically Porous Rutile Titania:â€‰ Harnessing Spontaneous Compositional Change in Mixed-Metal Oxides. Chemistry of Materials, 2006, 18, 6345-6351.	3.2	31
76	Crystal structure, characterization and thermoelectric properties of the type-I clathrate Ba8â^'ySryAl14Si32 (0.6â‰yâ‰1.3) prepared by aluminum flux. Journal of Solid State Chemistry, 2011, 184, 1176-1185.	1.4	30
77	Understanding and control of bipolar self-doping in copper nitride. Journal of Applied Physics, 2016, 119, .	1.1	30
78	A simple chemical guide for finding novel n-type dopable Zintl pnictide thermoelectric materials. Journal of Materials Chemistry A, 2019, 7, 19385-19395.	5.2	29
79	Ultralow Thermal Conductivity in Diamond-Like Semiconductors: Selective Scattering of Phonons from Antisite Defects. Chemistry of Materials, 2018, 30, 3395-3409.	3.2	28
80	Towards the high-throughput synthesis of bulk materials: thermoelectric PbTeâ€“PbSeâ€“SnTeâ€“SnSe alloys. Molecular Systems Design and Engineering, 2019, 4, 407-420.	1.7	28
81	Combinatorial investigation of structural and optical properties of cation-disordered ZnGeN₂. Journal of Materials Chemistry C, 2020, 8, 8736-8746.	2.7	28
82	Topochemical Formation of Mesoporous MnO Crystals. Chemistry of Materials, 2006, 18, 1047-1052.	3.2	27
83	Spontaneously formed porous and composite materials. Journal of Materials Chemistry, 2010, 20, 1413-1422.	6.7	27
84	Thermoelectricity in transition metal compounds: the role of spin disorder. Physical Chemistry Chemical Physics, 2016, 18, 31777-31786.	1.3	27
85	Empirical modeling of dopability in diamond-like semiconductors. Npj Computational Materials, 2018, 4, .	3.5	27
86	Carrier density control in Cu2HgGeTe4and discovery of Hg2GeTe4viaphase boundary mapping. Journal of Materials Chemistry A, 2019, 7, 621-631.	5.2	27
87	Polycrystalline <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>ZrTe</mml:mi></mml:mrow><mml:mrow><mml:mn>5</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Parametrized as a Narrow-Band-Gap Semiconductor for Thermoelectric Performance. Physical Review Applied, 2018, 9, .	1.5	26
88	Experimental and computational phase boundary mapping of Co₄Sn₆Te₆. Journal of Materials Chemistry A, 2018, 6, 24175-24185.	5.2	26
89	Nanostructuring in Î²â€Zn₄Sb₃ with variable starting Zn compositions. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 1652-1657.	0.8	25
90	Band Edge Positions and Their Impact on the Simulated Device Performance of ZnSnN2-Based Solar Cells. IEEE Journal of Photovoltaics, 2018, 8, 110-117.	1.5	25

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91	Synthesis, Structure, and Thermoelectric Properties of Î±-Zn₃Sb₂ and Comparison to Î²-Zn₁₃Sb₁₀. Chemistry of Materials, 2017, 29, 5249-5258.	3.2	24
92	Response to â€œComment on â€˜Effective thermal conductivity in thermoelectric materialsâ€™â€•[J. Appl. Phys. 113, 204904 (2013)]. Journal of Applied Physics, 2014, 115, .	1.1	23
93	Blue-green emission from epitaxial yet cation-disordered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>ZnGeN</mml:mi><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:mo>:</mml:mo><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:mrow></mml:math>. Physical Review Materials, 2019, 3, .	0.9	23
94	Ionic vs. van der Waals layered materials: identification and comparison of elastic anisotropy. Journal of Materials Chemistry A, 2018, 6, 15828-15838.	5.2	22
95	Zintl Phases: Recent Developments in Thermoelectrics and Future Outlook. RSC Energy and Environment Series, 2016, , 1-26.	0.2	21
96	Rapid Prediction of Anisotropic Lattice Thermal Conductivity: Application to Layered Materials. Chemistry of Materials, 2019, 31, 2048-2057.	3.2	20
97	Development of ZnSiP$_{mathbf 2}$ for Si-Based Tandem Solar Cells. IEEE Journal of Photovoltaics, 2015, 5, 17-21.	1.5	19
98	Solar thermoelectric generators: Pushing the efficiency up. Nature Energy, 2016, 1, .	19.8	19
99	Growth of amorphous and epitaxial ZnSiP₂â€“Si alloys on Si. Journal of Materials Chemistry C, 2018, 6, 2696-2703.	2.7	18
100	Solar Thermoradiative-Photovoltaic Energy Conversion. Cell Reports Physical Science, 2020, 1, 100258.	2.8	18
101	Native Defect Engineering in CuInTe₂. Chemistry of Materials, 2021, 33, 359-369.	3.2	18
102	Pressure-induced structural transition in chalcopyrite ZnSiP2. Applied Physics Letters, 2017, 110, 182106.	1.5	17
103	Search and Structural Featurization of Magnetically Frustrated Kagome Lattices. Chemistry of Materials, 2021, 33, 4373-4381.	3.2	17
104	Coupled Charge and Radiation Transport Processes in Thermophotovoltaic and Thermoradiative Cells. Physical Review Applied, 2021, 15, .	1.5	16
105	Solubility limits in quaternary SnTe-based alloys. RSC Advances, 2017, 7, 24747-24753.	1.7	14
106	Prototype latent heat storage system with aluminum-silicon as a phase change material and a Stirling engine for electricity generation. Energy Conversion and Management, 2019, 199, 111992.	4.4	14
107	Synthesis, characterization and chemical stability of silicon dichalcogenides, Si(Se S1âˆ')2. Journal of Crystal Growth, 2016, 452, 151-157.	0.7	13
108	Using resonant energy X-ray diffraction to extract chemical order parameters in ternary semiconductors. Journal of Materials Chemistry C, 2020, 8, 4350-4356.	2.7	13

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109	Computationally Guided Discovery of Axis-Dependent Conduction Polarity in NaSnAs Crystals. Chemistry of Materials, 2021, 33, 946-951.	3.2	13
110	Engineering the Next Generation of Solid State Proton Conductors: Synthesis and Properties of Ba_{3â^'x}K_xH_x(PO₄)₂. Chemistry of Materials, 2010, 22, 1186-1194.	3.2	12
111	Design of a thermosyphon-based thermal valve for controlled high-temperature heat extraction. Applied Thermal Engineering, 2017, 126, 1141-1147.	3.0	12
112	Study of the Thermoelectric Properties of Bi₂Te₃/Sb₂Te₃ Coreâ€“Shell Heterojunction Nanostructures. ACS Applied Materials & Interfaces, 2022, 14, 24886-24896.	4.0	12
113	Discovery of n-Type Zintl Phases RbAlSb₄, RbGaSb₄, CsAlSb₄, and CsGaSb₄. ACS Applied Energy Materials, 2020, 3, 2182-2191.	2.5	11
114	Symmetry breaking in Ge_{1â^'x}Mn_xTe and the impact on thermoelectric transport. Journal of Materials Chemistry A, 2022, 10, 16468-16477.	5.2	11
115	Epitaxial Manganese Oxide Thin Films with Connected Porosity:â€‰Topotactic Induction of Crystallographic Pore Alignment. Chemistry of Materials, 2007, 19, 4833-4838.	3.2	10
116	Thermal Stability and Phase Purity in Polycrystalline Ba8Ga x Ge46â^'x. Journal of Electronic Materials, 2009, 38, 1423-1426.	1.0	9
117	Spray Pyrolysisâ€Aerosol Deposition for the Production of Thick Yttriaâ€Stabilized Zirconia Coatings. Advanced Engineering Materials, 2021, 23, 2100255.	1.6	9
118	Large Area Atomically Flat Surfaces via Exfoliation of Bulk Bi₂Se₃ Single Crystals. Chemistry of Materials, 2017, 29, 8472-8477.	3.2	8
119	Alloyed Thermoelectric PbTeâ€“SnTe Films Formed via Aerosol Deposition. ACS Combinatorial Science, 2019, 21, 753-759.	3.8	8
120	Guidelines for phase change material selection based on a holistic system model. Solar Energy Materials and Solar Cells, 2020, 208, 110422.	3.0	8
121	Reactive phosphine combinatorial co-sputtering of cation disordered ZnGeP₂ films. Journal of Materials Chemistry C, 2022, 10, 870-879.	2.7	8
122	Boron Phosphide Films by Reactive Sputtering: Searching for a Pâ€Type Transparent Conductor. Advanced Materials Interfaces, 2022, 9, .	1.9	8
123	Reliability and heat transfer performance of a miniature high-temperature thermosyphon-based thermal valve. International Journal of Heat and Mass Transfer, 2018, 125, 1079-1086.	2.5	7
124	Conduction band position tuning and Ga-doping in (Cd,Zn)S alloy thin films. Materials Chemistry Frontiers, 2017, 1, 1342-1348.	3.2	6
125	Short-Range Order Tunes Optical Properties in Long-Range Disordered ZnSnN₂â€“ZnO Alloy. Chemistry of Materials, 2022, 34, 3910-3919.	3.2	6
126	Comparison of Cu<inf>2</inf>SnS<inf>3</inf> and CuSbS<inf>2</inf> as potential solar cell absorbers. , 2014, , .		5

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127	Single crystal growth and phase stability of photovoltaic grade ZnSiP2 by flux technique. , 2015, , .		5
128	Disorder-tunable ZnGeP₂ for epitaxial top cells on Si. , 2019, , .		5
129	Effects of low temperature annealing on the transport properties of zinc tin nitride. , 2015, , .		4
130	Virtual Issue on Thermoelectric Materials. Chemistry of Materials, 2016, 28, 2463-2465.	3.2	4
131	Controlling thermoelectric transport via native defects in the diamond-like semiconductors Cu2HgGeTe4 and Hg2GeTe4. Journal of Materials Chemistry A, 0, , .	5.2	4
132	Synthesis and structural properties of type I potassium SiGe alloy clathrates. Materials Letters, 2015, 149, 123-126.	1.3	3
133	Demonstration of a thermosyphon thermal valve for controlled extraction of stored solar thermal energy. AIP Conference Proceedings, 2018, , .	0.3	3
134	Understanding Cu incorporation in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mrow> structure using resonant x-ray diffraction. Physical Review Materials, 2021, 5, .	0.9	3 <mml:mn>2</mml
135	Complex thermoelectric materials. , 2009, , 50-59.		2
136	Chapter 1 Discovery and Design of New Thermoelectric Materials. , 2016, , 1-38.		2
137	Energy conversion properties of ZnSiP<inf>2</inf>, a lattice-matched material for silicon-based tandem photovoltaics. , 2016, , .		2
138	Anomalous electronic properties in layered, disordered ZnVSb. Physical Review Materials, 2021, 5, .	0.9	2
139	Efficacy of the Method of Four Coefficients to Determine Charge-Carrier Scattering. Physical Review Applied, 2021, 16, .	1.5	2
140	Structural defects in compounds <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Zn</mml:mi><mml:mi>X</mml:mi><mml:mi>Sb</mml:mi> <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mo>(</mml:mo><mml:mi>X</mml:mi><mml:mo>=</mml:mo><mml:mi>C : Origin of disorder and its relationship with electronic pro. Physical Review Materials, 2022, 6, .	0.9	2
141	Spontaneous Formation of Macroporous Monoliths of Mesoporous Manganese Oxide Crystals.. ChemInform, 2005, 36, no.	0.1	0
142	Spontaneous Transformations in the Solid State: Towards Porous and Biphasic Materials. Materials Research Society Symposia Proceedings, 2006, 988, 1.	0.1	0
143	Surface conversion of single-crystal Bi2Se3 to Î²-In2Se3. Journal of Crystal Growth, 2021, 573, 126306.	0.7	0
144	Studio at CSM: Physics, Biology, and Beyond. , 0, , .		0