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	Reactive phosphine combinatorial co-sputtering of cation disordered ZnGeP₂ films. Journal of Materials Chemistry C, 2022, 10, 870-879.	2.7	8
2	Boron Phosphide Films by Reactive Sputtering: Searching for a Pâ€Type Transparent Conductor. Advanced Materials Interfaces, 2022, 9, .	1.9	8
3	Short-Range Order Tunes Optical Properties in Long-Range Disordered ZnSnN₂â€“ZnO Alloy. Chemistry of Materials, 2022, 34, 3910-3919.	3.2	6
4	Study of the Thermoelectric Properties of Bi₂Te₃/Sb₂Te₃ Coreâ€“Shell Heterojunction Nanostructures. ACS Applied Materials & Interfaces, 2022, 14, 24886-24896.	4.0	12
5	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
6	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
7	Native Defect Engineering in CuInTe₂. Chemistry of Materials, 2021, 33, 359-369.	3.2	18
8	Anomalous electronic properties in layered, disordered ZnVSb. Physical Review Materials, 2021, 5, .	0.9	2
9	Computationally Guided Discovery of Axis-Dependent Conduction Polarity in NaSnAs Crystals. Chemistry of Materials, 2021, 33, 946-951.	3.2	13
10	Spray Pyrolysisâ€Aerosol Deposition for the Production of Thick Yttriaâ€Stabilized Zirconia Coatings. Advanced Engineering Materials, 2021, 23, 2100255.	1.6	9
11	Coupled Charge and Radiation Transport Processes in Thermophotovoltaic and Thermoradiative Cells. Physical Review Applied, 2021, 15, .	1.5	16
12	Search and Structural Featurization of Magnetically Frustrated Kagome Lattices. Chemistry of Materials, 2021, 33, 4373-4381.	3.2	17
13	Ternary Nitride Materials: Fundamentals and Emerging Device Applications. Annual Review of Materials Research, 2021, 51, 591-618.	4.3	34
14	Efficacy of the Method of Four Coefficients to Determine Charge-Carrier Scattering. Physical Review Applied, 2021, 16, .	1.5	2
15	Surface conversion of single-crystal Bi2Se3 to Î²-In2Se3. Journal of Crystal Growth, 2021, 573, 126306.	0.7	0
16	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> <mml:mn>2</mml:mn> structure using resonant x-ray diffraction. Physical Review Materials, 2021, 5, .	0.9	3
17	Giant, unconventional anomalous Hall effect in the metallic frustrated magnet candidate, KV ₃ Sb ₅. Science Advances, 2020, 6, eabb6003.	4.7	295
18	Solar Thermoradiative-Photovoltaic Energy Conversion. Cell Reports Physical Science, 2020, 1, 100258.	2.8	18

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19	On the Dopability of Semiconductors and Governing Material Properties. Chemistry of Materials, 2020, 32, 4467-4480.	3.2	34
20	Combinatorial investigation of structural and optical properties of cation-disordered ZnGeN₂. Journal of Materials Chemistry C, 2020, 8, 8736-8746.	2.7	28
21	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
22	Discovery of n-Type Zintl Phases RbAlSb₄, RbGaSb₄, CsAlSb₄, and CsGaSb₄. ACS Applied Energy Materials, 2020, 3, 2182-2191.	2.5	11
23	Guidelines for phase change material selection based on a holistic system model. Solar Energy Materials and Solar Cells, 2020, 208, 110422.	3.0	8
24	Utilizing Site Disorder in the Development of New Energy-Relevant Semiconductors. ACS Energy Letters, 2020, 5, 2027-2041.	8.8	46
25	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
26	Alloyed Thermoelectric PbTeâ€“SnTe Films Formed via Aerosol Deposition. ACS Combinatorial Science, 2019, 21, 753-759.	3.8	8
27	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
28	Carrier density control in Cu2HgGeTe4and discovery of Hg2GeTe4viaphase boundary mapping. Journal of Materials Chemistry A, 2019, 7, 621-631.	5.2	27
29	New frontiers for the materials genome initiative. Npj Computational Materials, 2019, 5, .	3.5	312
30	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
31	Rapid Prediction of Anisotropic Lattice Thermal Conductivity: Application to Layered Materials. Chemistry of Materials, 2019, 31, 2048-2057.	3.2	20
32	Disorder-tunable ZnGeP₂ for epitaxial top cells on Si. , 2019, , .		5
33	Effective n-type doping of Mg3Sb2 with group-3 elements. Journal of Applied Physics, 2019, 125, .	1.1	37
34	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<mathvariant="normal">O</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:mrow></mml:math>. Physical Review Materials, 2019, 3, .	0.9	23
35	New Ragone 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:mrow></mml:math>, 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></mml:mrow></mml:math>. Physical Review Materials, 2019, 3, .	0.9	398
36	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

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37	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></ Parametrized as a Narrow-Band-Gap Semiconductor for Thermoelectric Performance. Physical Review Applied, 2018, 9, .	1.5	26
38	Growth of amorphous and epitaxial ZnSiP₂â€“Si alloys on Si. Journal of Materials Chemistry C, 2018, 6, 2696-2703.	2.7	18
39	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
40	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
41	Ultralow Thermal Conductivity in Diamond-Like Semiconductors: Selective Scattering of Phonons from Antisite Defects. Chemistry of Materials, 2018, 30, 3395-3409.	3.2	28
42	Phase Boundary Mapping to Obtain n-type Mg3Sb2-Based Thermoelectrics. Joule, 2018, 2, 141-154.	11.7	274
43	Experimental and computational phase boundary mapping of Co₄Sn₆Te₆. Journal of Materials Chemistry A, 2018, 6, 24175-24185.	5.2	26
44	Demonstration of a thermosyphon thermal valve for controlled extraction of stored solar thermal energy. AIP Conference Proceedings, 2018, , .	0.3	3
45	Empirical modeling of dopability in diamond-like semiconductors. Npj Computational Materials, 2018, 4, .	3.5	27
46	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
47	Exciton photoluminescence and benign defect complex formation in zinc tin nitride. Materials Horizons, 2018, 5, 823-830.	6.4	41
48	A practical field guide to thermoelectrics: Fundamentals, synthesis, and characterization. Applied Physics Reviews, 2018, 5, 021303.	5.5	223
49	Investigation of n-type doping strategies for Mg₃Sb₂. Journal of Materials Chemistry A, 2018, 6, 13806-13815.	5.2	80
50	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
51	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
52	Capturing Anharmonicity in a Lattice Thermal Conductivity Model for High-Throughput Predictions. Chemistry of Materials, 2017, 29, 2494-2501.	3.2	88
53	Design of a thermosyphon-based thermal valve for controlled high-temperature heat extraction. Applied Thermal Engineering, 2017, 126, 1141-1147.	3.0	12
54	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

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55	Conduction band position tuning and Ga-doping in (Cd,Zn)S alloy thin films. Materials Chemistry Frontiers, 2017, 1, 1342-1348.	3.2	6
56	Synthesis, structure, and optoelectronic properties of IIâ€“IVâ€“V₂materials. Journal of Materials Chemistry A, 2017, 5, 11418-11435.	5.2	145
57	Effects of Hydrogen on Acceptor Activation in Ternary Nitride Semiconductors. Advanced Electronic Materials, 2017, 3, 1600544.	2.6	56
58	Thermoelectric Performance and Defect Chemistry in n-Type Zintl KGaSb₄. Chemistry of Materials, 2017, 29, 4523-4534.	3.2	59
59	Pressure-induced structural transition in chalcopyrite ZnSiP2. Applied Physics Letters, 2017, 110, 182106.	1.5	17
60	Solubility limits in quaternary SnTe-based alloys. RSC Advances, 2017, 7, 24747-24753.	1.7	14
61	First-principles calculation of intrinsic defect chemistry and self-doping in PbTe. Npj Computational Materials, 2017, 3, .	3.5	62
62	Computationally guided discovery of thermoelectric materials. Nature Reviews Materials, 2017, 2, .	23.3	184
63	Large Area Atomically Flat Surfaces via Exfoliation of Bulk Bi₂Se₃ Single Crystals. Chemistry of Materials, 2017, 29, 8472-8477.	3.2	8
64	SnO as a potential oxide thermoelectric candidate. Journal of Materials Chemistry C, 2017, 5, 8854-8861.	2.7	72
65	Search for new thermoelectric materials with low Lorenz number. Journal of Materials Chemistry A, 2017, 5, 17302-17311.	5.2	60
66	Synthesis, Structure, and Thermoelectric Properties of Î±-Zn₃Sb₂ and Comparison to Î²-Zn₁₃Sb₁₀. Chemistry of Materials, 2017, 29, 5249-5258.	3.2	24
67	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
68	Computational identification of promising thermoelectric materials among known quasi-2D binary compounds. Journal of Materials Chemistry A, 2016, 4, 11110-11116.	5.2	55
69	Chapter 1 Discovery and Design of New Thermoelectric Materials. , 2016, , 1-38.		2
70	A review of defects and disorder in multinary tetrahedrally bonded semiconductors. Semiconductor Science and Technology, 2016, 31, 123004.	1.0	74
71	Energy conversion properties of ZnSiP<inf>2</inf>, a lattice-matched material for silicon-based tandem photovoltaics. , 2016, , .		2
72	Understanding and control of bipolar self-doping in copper nitride. Journal of Applied Physics, 2016, 119, .	1.1	30

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73	Thermoelectric properties of bromine filled CoSb₃ skutterudite. Journal of Materials Chemistry A, 2016, 4, 8444-8450.	5.2	36
74	Virtual Issue on Thermoelectric Materials. Chemistry of Materials, 2016, 28, 2463-2465.	3.2	4
75	Solar thermoelectric generators: Pushing the efficiency up. Nature Energy, 2016, 1, .	19.8	19
76	Thermoelectricity in transition metal compounds: the role of spin disorder. Physical Chemistry Chemical Physics, 2016, 18, 31777-31786.	1.3	27
77	TE Design Lab: A virtual laboratory for thermoelectric material design. Computational Materials Science, 2016, 112, 368-376.	1.4	98
78	Synthesis, characterization and chemical stability of silicon dichalcogenides, Si(Se S1â^')2. Journal of Crystal Growth, 2016, 452, 151-157.	0.7	13
79	Solar energy conversion properties and defect physics of ZnSiP₂. Energy and Environmental Science, 2016, 9, 1031-1041.	15.6	49
80	Zintl Phases: Recent Developments in Thermoelectrics and Future Outlook. RSC Energy and Environment Series, 2016, , 1-26.	0.2	21
81	Single crystal growth and phase stability of photovoltaic grade ZnSiP2 by flux technique. , 2015, , .		5
82	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</mml:mn></mml:mrow> Physical Review Applied, 2015, 4, .	1.5	73
83	Effects of low temperature annealing on the transport properties of zinc tin nitride. , 2015, , .		4
84	Development of ZnSiP$_{mathbf 2}$ for Si-Based Tandem Solar Cells. IEEE Journal of Photovoltaics, 2015, 5, 17-21.	1.5	19
85	Effect of extended strain fields on point defect phonon scattering in thermoelectric materials. Physical Chemistry Chemical Physics, 2015, 17, 19410-19423.	1.3	55
86	Synthesis and structural properties of type I potassium SiGe alloy clathrates. Materials Letters, 2015, 149, 123-126.	1.3	3
87	Combinatorial insights into doping control and transport properties of zinc tin nitride. Journal of Materials Chemistry C, 2015, 3, 11017-11028.	2.7	128
88	Computational Exploration of the Binary A₁B₁ Chemical Space for Thermoelectric Performance. Chemistry of Materials, 2015, 27, 6213-6221.	3.2	38
89	Material descriptors for predicting thermoelectric performance. Energy and Environmental Science, 2015, 8, 983-994.	15.6	241
90	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

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91	High-Temperature High-Efficiency Solar Thermoelectric Generators. Journal of Electronic Materials, 2014, 43, 2348-2355.	1.0	33
92	Comparison of Cu<inf>2</inf>SnS<inf>3</inf> and CuSbS<inf>2</inf> as potential solar cell absorbers. , 2014, , .		5
93	Synthesis and optical band gaps of alloyed Siâ€“Ge type II clathrates. Journal of Materials Chemistry C, 2014, 2, 3231-3237.	2.7	55
94	Efficient route to phase selective synthesis of type II silicon clathrates with low sodium occupancy. CrystEngComm, 2014, 16, 3940-3949.	1.3	39
95	Control of Doping in Cu₂SnS₃ through Defects and Alloying. Chemistry of Materials, 2014, 26, 4951-4959.	3.2	136
96	Synthesis of Group IV Clathrates for Photovoltaics. IEEE Journal of Photovoltaics, 2013, 3, 1305-1310.	1.5	62
97	Evaluation of photovoltaic materials within the Cu-Sn-S family. Applied Physics Letters, 2013, 103, .	1.5	117
98	Effective thermal conductivity in thermoelectric materials. Journal of Applied Physics, 2013, 113, .	1.1	86
99	Concentrated solar thermoelectric generators. Energy and Environmental Science, 2012, 5, 9055.	15.6	227
100	Measurement of the electrical resistivity and Hall coefficient at high temperatures. Review of Scientific Instruments, 2012, 83, 123902.	0.6	223
101	Improved thermoelectric cooling based on the Thomson effect. Physical Review B, 2012, 86, .	1.1	51
102	Advances in Thermal Conductivity. Annual Review of Materials Research, 2012, 42, 179-209.	4.3	250
103	Phonon engineering through crystal chemistry. Journal of Materials Chemistry, 2011, 21, 15843.	6.7	719
104	A high temperature apparatus for measurement of the Seebeck coefficient. Review of Scientific Instruments, 2011, 82, 063905.	0.6	255
105	Mechanochemical synthesis and thermoelectric properties of high quality magnesium silicide. Journal of Materials Chemistry, 2011, 21, 12259.	6.7	204
106	Ca₃AlSb₃: an inexpensive, non-toxic thermoelectric material for waste heat recovery. Energy and Environmental Science, 2011, 4, 510-518.	15.6	202
107	Predicted Electronic and Thermodynamic Properties of a Newly Discovered Zn₈Sb₇ Phase. Journal of the American Chemical Society, 2011, 133, 11255-11261.	6.6	33
108	Entropic stabilization and retrograde solubility in Zn4Sb3. Physical Review B, 2011, 83, .	1.1	41

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109	Nanostructuring in Î²â€Zn₄Sb₃ with variable starting Zn compositions. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 1652-1657.	0.8	25
110	High Thermoelectric Performance in PbTe Due to Large Nanoscale Ag2Te Precipitates and La Doping. Advanced Functional Materials, 2011, 21, 241-249.	7.8	484
111	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
112	Improved carrier concentration control in Zn-doped Ca5Al2Sb6. Journal of Applied Physics, 2011, 110, .	1.1	50
113	High-resolution nanostructural investigation of Zn4Sb3 alloys. Scripta Materialia, 2010, 63, 784-787.	2.6	36
114	The Zintl Compound Ca₅Al₂Sb₆ for Lowâ€Cost Thermoelectric Power Generation. Advanced Functional Materials, 2010, 20, 4375-4380.	7.8	180
115	Valence 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:ms 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:m Physical Review B, 2010, 81, .	1.1	32
116	Zintl Chemistry for Designing High Efficiency Thermoelectric Materials. Chemistry of Materials, 2010, 22, 624-634.	3.2	560
117	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
118	High-Temperature Transport Properties of the Zintl Phases Yb₁₁GaSb₉ and Yb₁₁InSb₉. Chemistry of Materials, 2010, 22, 935-941.	3.2	37
119	Composition and the thermoelectric performance of Î²-Zn4Sb3. Journal of Materials Chemistry, 2010, 20, 9877.	6.7	139
120	Electronic structure and transport in thermoelectric compounds AZn2Sb2 (A = Sr, Ca, Yb, Eu). Dalton Transactions, 2010, 39, 1046-1054.	1.6	184
121	Spontaneously formed porous and composite materials. Journal of Materials Chemistry, 2010, 20, 1413-1422.	6.7	27
122	Transport properties of the layered Zintl compound SrZnSb2. Journal of Applied Physics, 2009, 106, .	1.1	32
123	Characterization and analysis of thermoelectric transport in<mml:math 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:mu Physical Review B, 2009, 80, .	1.1	364
124	Complex thermoelectric materials. , 2009, , 50-59.		2
125	Thermal Stability and Phase Purity in Polycrystalline Ba8Ga x Ge46â^'x. Journal of Electronic Materials, 2009, 38, 1423-1426.	1.0	9
126	Structure, Heat Capacity, and High-Temperature Thermal Properties of Yb₁₄Mn_{1â^'x}Al_xSb₁₁. Chemistry of Materials, 2009, 21, 1354-1360.	3.2	92

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127	Thermoelectric properties of p-type LiZnSb: Assessment of ab initio calculations. Journal of Applied Physics, 2009, 105, .	1.1	62
128	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
129	Enhancement of Thermoelectric Efficiency in PbTe by Distortion of the Electronic Density of States. Science, 2008, 321, 554-557.	6.0	3,442
130	Complex thermoelectric materials. Nature Materials, 2008, 7, 105-114.	13.3	9,012
131	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
132	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
133	High thermoelectric efficiency in lanthanum doped Yb14MnSb11. Applied Physics Letters, 2008, 93, .	1.5	111
134	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
135	Template-free routes to porous inorganic materials. Chemical Communications, 2006, , 3159.	2.2	51
136	Hierarchically Porous Rutile Titania:â€‰ Harnessing Spontaneous Compositional Change in Mixed-Metal Oxides. Chemistry of Materials, 2006, 18, 6345-6351.	3.2	31
137	Macroporous Manganese Oxides with Regenerative Mesopores. Journal of the American Chemical Society, 2006, 128, 1462-1463.	6.6	78
138	Topochemical Formation of Mesoporous MnO Crystals. Chemistry of Materials, 2006, 18, 1047-1052.	3.2	27
139	Spontaneous Transformations in the Solid State: Towards Porous and Biphasic Materials. Materials Research Society Symposia Proceedings, 2006, 988, 1.	0.1	0
140	Spontaneous Formation of Macroporous Monoliths of Mesoporous Manganese Oxide Crystals.. ChemInform, 2005, 36, no.	0.1	0
141	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
142	Macroporous Monoliths of Functional Perovskite Materials through Assisted Metathesis. Chemistry of Materials, 2004, 16, 2194-2200.	3.2	40
143	Studio at CSM: Physics, Biology, and Beyond. , 0, , .		0
144	Controlling thermoelectric transport via native defects in the diamond-like semiconductors Cu2HgGeTe4 and Hg2GeTe4. Journal of Materials Chemistry A, 0, , .	5.2	4