

# Electrocaloric materials for future solid-state refrigerat

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Orientation and phase transition dependence of the electrocaloric effect in $0.71\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3-0.29\text{PbTiO}_3$ single crystal. Applied Physics Letters, 2012, 101, 062907.	1.5	51
2	LARGE ELECTROCALORIC EFFECT IN RELAXOR FERROELECTRICS. Journal of Advanced Dielectrics, 2012, 02, 1230011.	1.5	33
3	Direct measurements of the electrocaloric effect in lead-free $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ - $\text{SrTiO}_3$ ceramics sintered in air. , 2012, , .		0
4	Electrocaloric temperature change constrained by the dielectric strength. Materials Chemistry and Physics, 2012, 136, 277-280.	2.0	48
5	Direct and indirect electrocaloric measurements on $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3-30\text{PbTiO}_3$ single crystals. Journal of Applied Physics, 2012, 111, .	1.1	165
6	Advanced materials for solid-state refrigeration. Journal of Materials Chemistry A, 2013, 1, 4925.	5.2	320
7	The coexistence of the negative and positive electrocaloric effect in ferroelectric thin films for solid-state refrigeration. Europhysics Letters, 2013, 102, 47004.	0.7	46
8	Direct characterization of the electrocaloric effects in thin films supported on substrates. Applied Physics Letters, 2013, 103, .	1.5	18
9	Cation Order-Disorder Transition in Fe-Doped $6\text{H-BaTiO}_3$ for Dilute Room-Temperature Ferromagnetism. Chemistry of Materials, 2013, 25, 3544-3550.	3.2	23
10	Direct measurement of the electrocaloric effect in poly(vinylidene fluoride)-trifluoroethylene (PVDF-TrFE) thin films. Applied Physics Letters, 2013, 103, .	1.5	21
11	Pyroelectric and Electrocaloric Properties of PZT- and BT-Based Ceramics. Ferroelectrics, 2013, 450, 84-92.	0.3	10
12	An electrocaloric device demonstrator for solid-state cooling. Europhysics Letters, 2013, 103, 47011.	0.7	15
13	The Electrocaloric Effect in Lead-Free $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ - $\text{SrTiO}_3$ Ceramics. Ferroelectrics, 2013, 446, 39-45.	0.3	18
14	Requirements to $(\text{Ba,Ca})(\text{Zr,Ti})\text{O}_3$ electrocaloric materials. , 2013, , .		2
15	Giant electrocaloric effects in ferroelectric nanostructures with vortex domain structures. RSC Advances, 2013, 3, 7928.	1.7	25
16	Enhanced Electrocaloric Effects in Spark Plasma-Sintered $\text{Ba}_{0.65}\text{Sr}_{0.35}\text{TiO}_3$ Ceramics at Room Temperature. Journal of the American Ceramic Society, 2013, 96, 1021-1023.	1.5	10
17	Electrocaloric and pyroelectric properties of PZT and PMN-PNN-PZT thin films. Ceramics International, 2013, 39, S497-S500.	2.3	8
18	Multiphysics modeling of a micro-scale Stirling refrigeration system. International Journal of Thermal Sciences, 2013, 74, 44-52.	2.6	9

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20	Coupled caloric effects in multiferroics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 567-571.	0.9	30
21	Temperatureâ€electric field hysteresis loop of electrocaloric effect in ferroelectricityâ€Direct measurement and analysis of electrocaloric effect. I. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	32
22	Electrocaloric effect on graphenes. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	34
23	Modeling of polar nanoregions dynamics on the dielectric response of relaxors. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	12
24	Elastocaloric modeling of natural rubber. <i>Applied Thermal Engineering</i> , 2013, 57, 33-38.	3.0	58
25	Lead-free (Ba,Ca)(Zr,Ti)O <sub>3</sub> Based Electrocaloric Devices: Challenges and Perspectives. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1581, 1.	0.1	3
26	Effect of surface tension on electrocaloric effects in the ferroelectric nanomaterial with vortex domain structures. <i>Journal of Applied Physics</i> , 2013, 114, 044301.	1.1	14
27	Investigations on electrocaloric properties of ferroelectric Pb(Mg <sub>0.067</sub> Nb <sub>0.133</sub> Zr <sub>0.8</sub> )O <sub>3</sub> . <i>Applied Physics Letters</i> , 2013, 102, .	1.5	36
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31	Giant electrocaloric effect in asymmetric ferroelectric tunnel junctions at room temperature. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	17
32	Electrocaloric characterization of a poly(vinylidene fluoride-trifluoroethylene) copolymer. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	27
33	Enhanced electrocaloric and pyroelectric response from ferroelectric multilayers. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	40
34	Effect of Ce doping on the electrocaloric effect of Sr <sub>x</sub> Ba <sub>1-x</sub> Nb <sub>2</sub> O <sub>6</sub> single crystals. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	26
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38	Electrocaloric Effect in Relaxor Ferroelectric-Based Materials. <i>Engineering Materials</i> , 2014, , 47-89.	0.3	3

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40	Anisotropy of the Electrocaloric Effect in Lead-Free Relaxor Ferroelectrics. <i>Advanced Energy Materials</i> , 2014, 4, 1301688.	10.2	63
41	Design and modeling of a fluid-based micro-scale electrocaloric refrigeration system. <i>International Journal of Heat and Mass Transfer</i> , 2014, 72, 559-564.	2.5	68
42	Step-like features on caloric effects of graphenes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 918-921.	0.9	13
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51	Reactively sputtered PMN-PT thin films for electrocaloric applications. , 2014, , .		3
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54	Enhanced room temperature electrocaloric effect in barium titanate thin films with diffuse phase transition. <i>RSC Advances</i> , 2014, 4, 21826.	1.7	21
55	Modeling of efficient solid-state cooler on layered multiferroics. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014, 61, 1357-1363.	1.7	18
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63	Electrocaloric effect in core-shell ferroelectric ceramics: Theoretical approach and practical conclusions. <i>Applied Physics Letters</i> , 2015, 107, 172902.	1.5	2
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156	Large room temperature electrocaloric strength in bulk ferroelectric ceramics: an optimum solution. <i>Phase Transitions</i> , 2016, 89, 1019-1028.	0.6	9
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