

# Timothy Brown

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Atomic Hourglass and Thermometer Based on Diffusion of a Mobile Dopant in VO <sub>2</sub> . Journal of the American Chemical Society, 2020, 142, 15513-15526.	13.7	23
2	Physics-based compact modeling of electro-thermal memristors: Negative differential resistance, local activity, and non-local dynamical bifurcations. Applied Physics Reviews, 2022, 9, .	11.3	19
3	Impact of cycle-hysteresis interactions on the performance of giant magnetocaloric effect refrigerants. Materials Research Express, 2016, 3, 074001.	1.6	13
4	Microstructure dependent filament forming kinetics in HfO <sub>2</sub> programmable metallization cells. Nanotechnology, 2016, 27, 425709.	2.6	9
5	Effects of hysteresis and Brayton cycle constraints on magnetocaloric refrigerant performance. Journal of Applied Physics, 2018, 123, .	2.5	8
6	A Preisach-Based Nonequilibrium Methodology for Simulating Performance of Hysteretic Magnetic Refrigeration Cycles. Jom, 2015, 67, 2123-2132.	1.9	6
7	Dynamic re-equilibration controlled multi-step transformations in (Mn,â€%Fe) <sub>2</sub> (P,â€%Si) alloys. Journal Physics D: Applied Physics, 2020, 53, 205303.	2.8	1