Reed Teyber

List of Publications by Year
in descending order

29 papers	488 citations	623734 14 h-index	677142 22 g-index
29 all docs	29 docs citations	29 times ranked	274 citing authors

#	Article	IF	Citations
1	Mechanical and Thermal Analysis of an HTS Superconducting Magnet for an Achromatic Gantry for Proton Therapy. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	1
2	Status of the Nb$_{3}$Sn Canted-Cosine-Theta Dipole Magnet Program at Lawrence Berkeley National Laboratory. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-7.	1.7	12
3	Predicting the thermal hysteresis behavior for a single-layer MnFeP1â^'xSix active magnetic regenerator. Applied Thermal Engineering, 2021, 183, 116173.	6.0	6
4	Fixed field phase shifters for a multipass recirculating superconducting proton linac. Physical Review Accelerators and Beams, 2021, 24, .	1.6	1
5	Inverse Biotâ€“Savart Optimization for Superconducting Accelerator Magnets. IEEE Transactions on Magnetics, 2021, 57, 1-7.	2.1	3
6	Development and performance of a 2.9 Tesla dipole magnet using high-temperature superconducting CORC^{Â®} wires. Superconductor Science and Technology, 2021, 34, 015012.	3.5	29
7	CORC^{^{circledR}} cable terminations with integrated Hall arrays for quench detection. Superconductor Science and Technology, 2020, 33, 095009.	3.5	10
8	Combined Function Magnetic Measurement System. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.7	0
9	Quench detection using Hall sensors in high-temperature superconducting CORC^{Â®}-based cable-in-conduit-conductors for fusion applications. Superconductor Science and Technology, 2020, 33, 105011.	3.5	22
10	Thermoeconomic cost optimization of superconducting magnets for proton therapy gantries. Superconductor Science and Technology, 2020, 33, 105005.	3.5	4
11	Incorporating device and experimental loss mechanisms in AMR modelling. International Journal of Refrigeration, 2019, 98, 323-333.	3.4	7
12	Thermal-hydraulic evaluation of 3D printed microstructures. Applied Thermal Engineering, 2019, 160, 113990.	6.0	13
13	Superconducting magnet design for magnetic liquefiers using total cost minimization. Cryogenics, 2019, 99, 114-122.	1.7	3
14	Performance investigation of a high-field active magnetic regenerator. Applied Energy, 2019, 236, 426-436.	10.1	28
15	Experimental study of 2-layer regenerators using Mnâ€“Feâ€“Siâ€“P materials. Journal Physics D: Applied Physics, 2018, 51, 105002.	2.8	14
16	Semi-analytic AMR element model. Applied Thermal Engineering, 2018, 128, 1022-1029.	6.0	23
17	Passive force balancing of an active magnetic regenerative liquefier. Journal of Magnetism and Magnetic Materials, 2018, 451, 79-86.	2.3	9
18	Experimental characterization of multilayer active magnetic regenerators using first order materials: Multiple points of equilibrium. Journal of Applied Physics, 2018, 124, .	2.5	11

#	Article	IF	Citations
19	Investigation of bypass fluid flow in an active magnetic regenerative liquefier. Cryogenics, 2018, 93, 34-40.	1.7	16
20	Multiple points of equilibrium for active magnetic regenerators using first order magnetocaloric material. Journal of Applied Physics, 2018, 123, .	2.5	7
21	Topology optimization of reduced rare-earth permanent magnet arrays with finite coercivity. Journal of Applied Physics, 2018, 123, .	2.5	12
22	Material screening metrics and optimal performance of an active magnetic regenerator. Journal of Applied Physics, 2017, 121, .	2.5	26
23	Permanent magnet design for magnetic heat pumps using total cost minimization. Journal of Magnetism and Magnetic Materials, 2017, 442, 87-96.	2.3	33
24	Experimental investigation of MnFeP_{1âˆ’<i>x</i>}As_{<i>x</i>}multilayer active magnetic regenerators. Journal Physics D: Applied Physics, 2017, 50, 315001.	2.8	30
25	A concise approach for building the $s-T$ diagram for Mnâ€“Feâ€“Pâ€“Si hysteretic magnetocaloric material. Journal Physics D: Applied Physics, 2017, 50, 365001.	2.8	14
26	Experimental performance investigation of an active magnetic regenerator subject to different fluid flow waveforms. International Journal of Refrigeration, 2017, 74, 38-46.	3.4	31
27	Magnetic heat pumps: An overview of design principles and challenges. Science and Technology for the Built Environment, 2016, 22, 507-519.	1.7	54
28	Impacts of configuration losses on active magnetic regenerator device performance. Applied Thermal Engineering, 2016, 106, 601-612.	6.0	36
29	Performance evaluation of two-layer active magnetic regenerators with second-order magnetocaloric materials. Applied Thermal Engineering, 2016, 106, 405-414.	6.0	33