

# Wolf-Dieter Steinmann

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2235312/publications.pdf>

Version: 2024-02-01

18  
papers

1,022  
citations

759190

12  
h-index

996954

15  
g-index

19  
all docs

19  
docs citations

19  
times ranked

703  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal energy storage for direct steam generation. Solar Energy, 2011, 85, 627-633.	6.1	227
2	Latent heat storage above 120°C for applications in the industrial process heat sector and solar power generation. International Journal of Energy Research, 2008, 32, 264-271.	4.5	163
3	Thermo-mechanical concepts for bulk energy storage. Renewable and Sustainable Energy Reviews, 2017, 75, 205-219.	16.4	104
4	Progress and prospects of thermo-mechanical energy storage—a critical review. Progress in Energy, 2021, 3, 022001.	10.9	91
5	Pumped thermal energy storage (PTES) as smart sector-coupling technology for heat and electricity. Energy, 2019, 183, 185-190.	8.8	83
6	Solid Media Thermal Storage Development and Analysis of Modular Storage Operation Concepts for Parabolic Trough Power Plants. Journal of Solar Energy Engineering, Transactions of the ASME, 2008, 130, .	1.8	70
7	Detailed numerical investigation of a pumped thermal energy storage with low temperature heat integration. Energy, 2018, 145, 665-676.	8.8	68
8	Thermodynamic Analysis of High-Temperature Carnot Battery Concepts. Energy Technology, 2020, 8, 1900895.	3.8	63
9	Development of PCM Storage for Process Heat and Power Generation. Journal of Solar Energy Engineering, Transactions of the ASME, 2009, 131, .	1.8	48
10	Latent Heat Storage Systems for Solar Thermal Power Plants and Process Heat Applications. Journal of Solar Energy Engineering, Transactions of the ASME, 2010, 132, .	1.8	35
11	Experimental demonstration of an active latent heat storage concept. Applied Energy, 2016, 168, 661-671.	10.1	35
12	Introduction of the PCM Flux Concept for Latent Heat Storage. Energy Procedia, 2014, 57, 643-652.	1.8	20
13	The CellFlux Storage Concept for Increased Flexibility in Sensible Heat Storage. Energy Procedia, 2015, 73, 244-253.	1.8	7
14	The CellFlux Storage Concept for Cost Reduction in Parabolic Trough Solar Thermal Power Plants. Energy Procedia, 2014, 46, 142-151.	1.8	6
15	Proof-of-concept and advancement of the CellFlux concept. AIP Conference Proceedings, 2016, , .	0.4	1
16	Dynamic Concept at German Aerospace Center. , 2018, , 93-108.		1
17	PTES for Combined Heat and Power. , 2021, , .		0
18	Introduction to Thermo-Mechanical Energy Storage. , 2021, , .		0