

# Nishant Narayan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3129945/publications.pdf>

Version: 2024-02-01

17  
papers

424  
citations

933447

10  
h-index

1372567

10  
g-index

18  
all docs

18  
docs citations

18  
times ranked

498  
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrating a photovoltaic storage system in one device: A critical review. Progress in Photovoltaics: Research and Applications, 2019, 27, 346-370.	8.1	81
2	Estimating battery lifetimes in Solar Home System design using a practical modelling methodology. Applied Energy, 2018, 228, 1629-1639.	10.1	69
3	Harvesting Roadway Solar Energyâ€™ Performance of the Installed Infrastructure Integrated PV Bike Path. IEEE Journal of Photovoltaics, 2018, 8, 1066-1073.	2.5	50
4	Exploring the boundaries of Solar Home Systems (SHS) for off-grid electrification: Optimal SHS sizing for the multi-tier framework for household electricity access. Applied Energy, 2019, 240, 907-917.	10.1	40
5	Stochastic load profile construction for the multi-tier framework for household electricity access using off-grid DC appliances. Energy Efficiency, 2020, 13, 197-215.	2.8	35
6	Selecting a suitable battery technology for the photovoltaic battery integrated module. Journal of Power Sources, 2019, 438, 227011.	7.8	33
7	Constructing Accurate Equivalent Electrical Circuit Models of Lithium Iron Phosphate and Leadâ€™Acid Battery Cells for Solar Home System Applications. Energies, 2018, 11, 2305.	3.1	24
8	Quantifying the Benefits of a Solar Home System-Based DC Microgrid for Rural Electrification. Energies, 2019, 12, 938.	3.1	20
9	The Long Road to Universal Electrification: A Critical Look at Present Pathways and Challenges. Energies, 2020, 13, 508.	3.1	12
10	Energy Management System for the Photovoltaic Battery Integrated Module. Energies, 2018, 11, 3371.	3.1	11
11	PV-battery integrated module as a solution for off-grid applications in the developing world. , 2018, , .		11
12	Understanding the present and the future electricity needs: Consequences for design of future Solar Home Systems for off-grid rural electrification. , 2017, , .		10
13	Developing for developing nations: Exploring an affordable solar home system design. , 2016, , .		8
14	A simple methodology for estimating battery lifetimes in Solar Home System design. , 2017, , .		7
15	Comparison of PV-battery architectures for residential applications. , 2016, , .		6
16	A modeling methodology to evaluate the impact of temperature on Solar Home Systems for rural electrification. , 2018, , .		5
17	Testing a PV-battery Integrated Module Prototype. , 2018, , .		2