

# Rajendra Singh

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/756611/publications.pdf>

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36  
papers

1,159  
citations

623734

14  
h-index

580821

25  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1332  
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of Internet of Things (IoT) in Electric Power and Energy Systems. IEEE Internet of Things Journal, 2018, 5, 847-870.	8.7	460
2	Identifying and overcoming the challenges of implementing a project management office. European Journal of Information Systems, 2009, 18, 409-427.	9.2	71
3	Sustainable Rural Telehealth Innovation: A Public Health Case Study. Health Services Research, 2010, 45, 985-1004.	2.0	60
4	Making Solar Cells a Reality in Every Home: Opportunities and Challenges for Photovoltaic Device Design. IEEE Journal of the Electron Devices Society, 2013, 1, 129-144.	2.1	59
5	Evaluation of On-Board Photovoltaic Modules Options for Electric Vehicles. IEEE Journal of Photovoltaics, 2014, 4, 1576-1584.	2.5	54
6	Why silicon is and will remain the dominant photovoltaic material. Journal of Nanophotonics, 2009, 3, 032503.	1.0	46
7	Development of an IoT-Driven Building Environment for Prediction of Electric Energy Consumption. IEEE Internet of Things Journal, 2020, 7, 4912-4921.	8.7	44
8	Technical and economic assessment of perovskite solar cells for large scale manufacturing. Journal of Renewable and Sustainable Energy, 2015, 7, .	2.0	41
9	Further Cost Reduction of Battery Manufacturing. Batteries, 2017, 3, 17.	4.5	32
10	Deposition and characterization of nanostructured Cu <sub>2</sub> O thin-film for potential photovoltaic applications. Journal of Materials Research, 2013, 28, 1740-1746.	2.6	31
11	A comprehensive optimized model for on-board solar photovoltaic system for plug-in electric vehicles: energy and economic impacts. International Journal of Energy Research, 2016, 40, 1489-1508.	4.5	31
12	A Review of Extremely Fast Charging Stations for Electric Vehicles. Energies, 2021, 14, 7566.	3.1	31
13	Combined optical-electrical finite-element simulations of thin-film solar cells with homogeneous and nonhomogeneous intrinsic layers. Journal of Photonics for Energy, 2016, 6, 025502.	1.3	21
14	Why and how photovoltaics will provide cheapest electricity in the 21st century. Facta Universitatis - Series Electronics and Energetics, 2014, 27, 275-298.	0.9	19
15	Navigating the challenges of Internet of Things (IoT) for power and energy systems. , 2016, , .		18
16	Emerging role of photovoltaics for sustainably powering underdeveloped, emerging, and developed economies. , 2014, , .		14
17	Internet of Things (IoT) sensors for smart home electric energy usage management. , 2016, , .		13
18	Innovative paths for providing green energy for sustainable global economic growth. Proceedings of SPIE, 2012, , .	0.8	12

#	ARTICLE	IF	CITATIONS
19	Stand-Alone Direct Current Power Network Based on Photovoltaics and Lithium-Ion Batteries for Reverse Osmosis Desalination Plant. <i>Energies</i> , 2021, 14, 2772.	3.1	12
20	Transformative Role of Power Electronics: In solving climate emergency. <i>IEEE Power Electronics Magazine</i> , 2022, 9, 39-47.	0.7	12
21	Photovoltaics- and Battery-Based Power Network as Sustainable Source of Electric Power. <i>Energies</i> , 2020, 13, 5048.	3.1	11
22	Assimilation of Web-Based Urgent Stroke Evaluation: A Qualitative Study of Two Networks. <i>JMIR Medical Informatics</i> , 2014, 2, e6.	2.6	11
23	Role of PV generated DC power in transport sector: Case study of plug-in EV. , 2015, , .		8
24	Transformative and disruptive role of local direct current power networks in power and transportation sectors. <i>Facta Universitatis - Series Electronics and Energetics</i> , 2019, 32, 387-402.	0.9	8
25	The Mechanism of Enhanced Diffusion of Phosphorus in Silicon During Rapid Photothermal Processing of Solar Cells. <i>IEEE Transactions on Electron Devices</i> , 2011, 58, 776-781.	3.0	7
26	Telestroke: Variations in Intravenous Thrombolysis by Spoke Hospitals. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2015, 24, 739-744.	1.6	6
27	Ultra-low cost and solar storm secured local DC electricity to address climate change challenges for all economies. , 2016, , .		6
28	Transformative Role of Silicon Carbide Power Electronics in Providing Low-cost Extremely Fast Charging of Electric Vehicles. , 2021, , .		5
29	Batteries and Free Fuel based Photovoltaics and Complimentary Wind Energy based DC Power Networks as 100% Source of Electric Power around the Globe. , 2021, , .		3
30	Sustainable Intelligent Charging Infrastructure for Electrification of Transportation. <i>Energies</i> , 2021, 14, 5258.	3.1	3
31	Semiconductor Manufacturing. , 2013, , 121-132.		2
32	Transformative role of photovoltaics in phasing out alternating current based grid by local DC power networks for sustainable global economic growth. , 2016, , .		2
33	(Invited) Emerging Role of Silicon Carbide and Gallium Nitride Based Power Electronics in Power and Transportation Sectors. <i>ECS Transactions</i> , 2019, 92, 3-14.	0.5	2
34	Nearly Free Sustainable Electric and Thermal Power for Desalination. , 2020, , .		2
35	Role of In-Situ Rapid Isothermal Processing in the Advanced Metallizations. <i>IETE Journal of Research</i> , 1991, 37, 219-223.	2.6	1
36	IT-Based Revenue Cycle Management: An Action Research into Relational Coordination. , 2016, , .		1