Rajendra Singh

List of Publications by Year
in descending order

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	Transformative Role of Power Electronics: In solving climate emergency. IEEE Power Electronics Magazine, 2022, 9, 39-47.	0.7	12
2	Stand-Alone Direct Current Power Network Based on Photovoltaics and Lithium-Ion Batteries for Reverse Osmosis Desalination Plant. Energies, 2021, 14, 2772.	3.1	12
3	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
4	Transformative Role of Silicon Carbide Power Electronics in Providing Low-cost Extremely Fast Charging of Electric Vehicles. , 2021, , .		5
5	Sustainable Intelligent Charging Infrastructure for Electrification of Transportation. Energies, 2021, 14, 5258.	3.1	3
6	A Review of Extremely Fast Charging Stations for Electric Vehicles. Energies, 2021, 14, 7566.	3.1	31
7	Nearly Free Sustainable Electric and Thermal Power for Desalination. , 2020, , .		2
8	Photovoltaics- and Battery-Based Power Network as Sustainable Source of Electric Power. Energies, 2020, 13, 5048.	3.1	11
9	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
10	(Invited) Emerging Role of Silicon Carbide and Gallium Nitride Based Power Electronics in Power and Transportation Sectors. ECS Transactions, 2019, 92, 3-14.	0.5	2
11	Transformative and disruptive role of local direct current power networks in power and transportation sectors. Facta Universitatis - Series Electronics and Energetics, 2019, 32, 387-402.	0.9	8
12	Review of Internet of Things (IoT) in Electric Power and Energy Systems. IEEE Internet of Things Journal, 2018, 5, 847-870.	8.7	460
13	Further Cost Reduction of Battery Manufacturing. Batteries, 2017, 3, 17.	4.5	32
14	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
15	Transformative role of photovoltaics in phasing out alternating current based grid by local DC power networks for sustainable global economic growth. , 2016, , .		2
16	Internet of Things (IoT) sensors for smart home electric energy usage management. , 2016, , .		13
17	Ultra-low cost and solar storm secured local DC electricity to address climate change challenges for all economies. , 2016, , .		6
18	Combined opticalâ€“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

#	Article	IF	Citations
19	Navigating the challenges of Internet of Things (IoT) for power and energy systems. , 2016, , .		18
20	IT-Based Revenue Cycle Management: An Action Research into Relational Coordination. , 2016, , .		1
21	Telestroke: Variations in Intravenous Thrombolysis by Spoke Hospitals. Journal of Stroke and Cerebrovascular Diseases, 2015, 24, 739-744.	1.6	6
22	Role of PV generated DC power in transport sector: Case study of plug-in EV. , 2015, , .		8
23	Technical and economic assessment of perovskite solar cells for large scale manufacturing. Journal of Renewable and Sustainable Energy, 2015, 7, .	2.0	41
24	Emerging role of photovoltaics for sustainably powering underdeveloped, emerging, and developed economies. , 2014, , .		14
25	Evaluation of On-Board Photovoltaic Modules Options for Electric Vehicles. IEEE Journal of Photovoltaics, 2014, 4, 1576-1584.	2.5	54
26	Assimilation of Web-Based Urgent Stroke Evaluation: A Qualitative Study of Two Networks. JMIR Medical Informatics, 2014, 2, e6.	2.6	11
27	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
28	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
29	Deposition and characterization of nanostructured Cu₂O thin-film for potential photovoltaic applications. Journal of Materials Research, 2013, 28, 1740-1746.	2.6	31
30	Semiconductor Manufacturing. , 2013, , 121-132.		2
31	Innovative paths for providing green energy for sustainable global economic growth. Proceedings of SPIE, 2012, , .	0.8	12
32	The Mechanism of Enhanced Diffusion of Phosphorus in Silicon During Rapid Photothermal Processing of Solar Cells. IEEE Transactions on Electron Devices, 2011, 58, 776-781.	3.0	7
33	Sustainable Rural Telehealth Innovation: A Public Health Case Study. Health Services Research, 2010, 45, 985-1004.	2.0	60
34	Identifying and overcoming the challenges of implementing a project management office. European Journal of Information Systems, 2009, 18, 409-427.	9.2	71
35	Why silicon is and will remain the dominant photovoltaic material. Journal of Nanophotonics, 2009, 3, 032503.	1.0	46
36	Role of In-Situ Rapid Isothermal Processing in the Advanced Metallizations. IETE Journal of Research, 1991, 37, 219-223.	2.6	1