Nigel Schofield

List of Publications by Year in Descending Order

46 papers	1,351 citations	16 h-index	36 g-index
57 ext. papers	1,763 ext. citations	4.7 avg, IF	4.81 L-index

#	Paper	IF	Citations
46	Single-switch boost-buck DC-DC converter for industrial fuel cell and photovoltaics applications. *International Journal of Hydrogen Energy*, **2021**,	6.7	2
45	EV Charging in Case of Limited Power Resource. *Actuators*, **2021**, 10, 325	2.4	
44	An Induction Machine Design With Parameter Optimization for a 120-kW Electric Vehicle. *IEEE Transactions on Transportation Electrification*, **2020**, 6, 592-601	7.6	7
43	Investigation of transient energy storage sources for support of future electrical power systems. *IET Renewable Power Generation*, **2020**, 14, 1296-1303	2.9	
42	Mitigating Potential-Induced Degradation (PID) Using SiO2 ARC Layer. *Energies*, **2020**, 13, 5139	3.1	6
41	Game-Based Energy Management Method for Hybrid RTG Cranes. *Energies*, **2019**, 12, 3589	3.1	4
40	Phase voltage distortion of IPM and SPM machines with distributed windings in field weakening region. *Journal of Engineering*, **2019**, 2019, 3872-3877	0.7	1
39	Dual three-phase permanent magnet synchronous machine investigation for battery electric vehicle power-trains. *Journal of Engineering*, **2019**, 2019, 3981-3985	0.7	7
38	3D-Printed rapid prototype rigs for surface mounted PM rotor controlled segment magnetisation and assembly **2019**,		1
37	Multi-phase VSI DC-link capacitor considerations. *IET Electric Power Applications*, **2019**, 13, 1804-1811	1.8	10
36	. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 3220-3229	8.9	21
35	. *IEEE Transactions on Industry Applications*, **2017**, 53, 3707-3718	4.3	16
34	Magnetic Interaction and Winding Polarities Investigation in a Double-Rotor Switched Reluctance Machine. *Electric Power Components and Systems*, **2017**, 45, 211-220	1	1
33	Field-Weakening Capability of Interior Permanent-Magnet Machines With Salient Pole Shoe Rotors. *IEEE Transactions on Magnetics*, **2017**, 53, 1-7	2	9
32	Thermal management of electric machines. *IET Electrical Systems in Transportation*, **2017**, 7, 104-116	2.1	39
31	Sizing of Energy System of a Hybrid Lithium Battery RTG Crane. *IEEE Transactions on Power Electronics*, **2017**, 32, 7837-7844	7.2	24
30	. *IEEE Transactions on Industry Applications*, **2016**, 52, 189-198	4.3	9

29	. *IEEE Transactions on Energy Conversion*, **2016**, 31, 1278-1286	5.4	14
28	Comparison of high-speed switched reluctance machines with conventional and toroidal windings **2016**,		2
27	Double-rotor switched reluctance machine design, simulations, and validations. *IET Electrical Systems in Transportation*, **2016**, 6, 117-125	2.1	13
26	Energy Storage System for a Port Crane Hybrid Power-Train. *IEEE Transactions on Transportation Electrification*, **2016**, 2, 480-492	7.6	33
25	An Offshore Wind Generation Scheme With a High-Voltage Hybrid Generator, HVDC Interconnections, and Transmission. *IEEE Transactions on Power Delivery*, **2016**, 31, 867-877	4.3	16
24	. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 4687-4699	6.8	19
23	High-speed switched reluctance machine design with toroidal-windings **2015**,		2
22	. *IEEE Transactions on Energy Conversion*, **2015**, 30, 671-680	5.4	36
21	External-Rotor $6-10$ Switched Reluctance Motor for an Electric Bicycle. *IEEE Transactions on Transportation Electrification*, **2015**, 1, 348-356	7.6	45
20	Multiphase machines for electric vehicle traction **2014**,		9
19	Variable speed brushless hybrid permanent magnet generator for hybrid electric vehicles **2014**,		4
18	Hybrid generator for wind generation systems **2014**,		5
17	Design, Analysis, and Optimization of Ironless Stator Permanent Magnet Machines. *IEEE Transactions on Power Electronics*, **2013**, 28, 2527-2538	7.2	35
16	A modular battery charger for electric vehicles **2013**,		4
15	Power and energy analysis of commercial small wind turbine systems **2010**,		7
14	Novel Switched Reluctance Machine Configuration With Higher Number of Rotor Poles Than Stator Poles: Concept to Implementation. *IEEE Transactions on Industrial Electronics*, **2010**, 57, 649-659	8.9	155
13	The Impact of Transport Electrification on Electrical Networks. *IEEE Transactions on Industrial Electronics*, **2010**, 57, 3917-3926	8.9	189
12	Switched Reluctance Machines with higher rotor poles than stator poles for improved output torque characteristics **2009**,		5

11	Generator Operation of a Switched Reluctance Starter/Generator at Extended Speeds. *IEEE Transactions on Vehicular Technology*, **2009**, 58, 48-56	6.8	57
10	. *IEEE Transactions on Industry Applications*, **2009**, 45, 116-122	4.3	64
9	A novel modular permanent-magnet electric machine design **2009**,		4
8	Ironless machine design and novel digital control for automotive applications **2009**,		2
7	Design and performance evaluation of a novel 6/10 Switched Reluctance Machine **2009**,		3
6	Battery balancing methods: A comprehensive review **2008**,		307
5	Plug-in hybrid electric vehicle developments in the US: Trends, barriers, and economic feasibility **2008**,		69
4	Electrical machines and power electronic drives for wind turbine applications **2008**,		13
3	Feasibility analysis of converting a Chicago Transit Authority (CTA) transit bus to a plug-in hybrid electric vehicle **2008**,		2
2	Observer-Based Tuning of Two-Inertia Servo-Drive Systems With Integrated SAW Torque Transducers. *IEEE Transactions on Industrial Electronics*, **2007**, 54, 1080-1091	8.9	21
1	The parallel combination of a VRLA cell and supercapacitor for use as a hybrid vehicle peak power buffer. *Journal of Power Sources*, **2005**, 147, 288-294	8.9	52