AnÃ-bal T De Almeida

List of Publications by Year
in descending order

264 papers	8,605 citations	44069 48 h-index	60623 81 g-index
271 all docs	271 docs citations	271 times ranked	7653 citing authors

#	Article	IF	Citations
1	Beyond Induction Motorsâ€"Technology Trends to Move Up Efficiency. IEEE Transactions on Industry Applications, 2014, 50, 2103-2114.	4.9	277
2	An Energy-Stored Quasi-Z-Source Inverter for Application to Photovoltaic Power System. IEEE Transactions on Industrial Electronics, 2013, 60, 4468-4481.	7.9	249
3	Impact of the electricity mix and use profile in the life-cycle assessment of electric vehicles. Renewable and Sustainable Energy Reviews, 2013, 24, 271-287.	16.4	244
4	A sustainability assessment of electric vehicles as a personal mobility system. Energy Conversion and Management, 2012, 61, 19-30.	9.2	238
5	EGaInâ€Assisted Roomâ€Temperature Sintering of Silver Nanoparticles for Stretchable, Inkjetâ€Printed, Thinâ€Film Electronics. Advanced Materials, 2018, 30, e1801852.	21.0	225
6	Characterization of the household electricity consumption in the EU, potential energy savings and specific policy recommendations. Energy and Buildings, 2011, 43, 1884-1894.	6.7	211
7	Energy storage system for self-consumption of photovoltaic energy in residential zero energy buildings. Renewable Energy, 2017, 103, 308-320.	8.9	195
8	The role of demand-side management in the grid integration of wind power. Applied Energy, 2010, 87, 2581-2588.	10.1	187
9	Solid state lighting review â€“ Potential and challenges in Europe. Renewable and Sustainable Energy Reviews, 2014, 34, 30-48.	16.4	179
10	Olfaction-based mobile robot navigation. Thin Solid Films, 2002, 418, 51-58.	1.8	178
11	Particle swarm-based olfactory guided search. Autonomous Robots, 2006, 20, 277-287.	4.8	172
12	Multi-objective optimization of a mixed renewable system with demand-side management. Renewable and Sustainable Energy Reviews, 2010, 14, 1461-1468.	16.4	156
13	Sensor-based demand-controlled ventilation: a review. Energy and Buildings, 1998, 29, 35-45.	6.7	146
14	Standards for Efficiency of Electric Motors. IEEE Industry Applications Magazine, 2011, 17, 12-19.	0.4	139
15	Technical and Economical Considerations on Super High-Efficiency Three-Phase Motors. IEEE Transactions on Industry Applications, 2014, 50, 1274-1285.	4.9	133
16	Technical and Economical Considerations in the Application of Variable-Speed Drives With Electric Motor Systems. IEEE Transactions on Industry Applications, 2005, 41, 188-199.	4.9	121
17	Primary and secondary use of electric mobility batteries from a life cycle perspective. Journal of Power Sources, 2014, 262, 169-177.	7.8	115
18	Robust hand gesture recognition with a double channel surface EMG wearable armband and SVM classifier. Biomedical Signal Processing and Control, 2018, 46, 121-130.	5.7	110

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19	Hydroprinted Electronics: Ultrathin Stretchable Agâ€“Inâ€“Ga E-Skin for Bioelectronics and Humanâ€“Machine Interaction. ACS Applied Materials & Interfaces, 2018, 10, 38760-38768.	8.0	108
20	OmniClimbers: Omni-directional magnetic wheeled climbing robots for inspection of ferromagnetic structures. Robotics and Autonomous Systems, 2013, 61, 997-1007.	5.1	106
21	Technical and economic assessment of the secondary use of repurposed electric vehicle batteries in the residential sector to support solar energy. Applied Energy, 2016, 181, 120-131.	10.1	106
22	An Equivalent Instantaneous Inductance-Based Technique for Discrimination Between Inrush Current and Internal Faults in Power Transformers. IEEE Transactions on Power Delivery, 2005, 20, 2473-2482.	4.3	105
23	Evaluation of Slot-Embedded Partial Electrostatic Shield for High-Frequency Bearing Current Mitigation in Inverter-Fed Induction Motors. IEEE Transactions on Energy Conversion, 2012, 27, 382-390.	5.2	105
24	Ecoanalysis of Variable-Speed Drives for Flow Regulation in Pumping Systems. IEEE Transactions on Industrial Electronics, 2011, 58, 2117-2125.	7.9	95
25	Energy-efficient motor systems in the industrial and in the services sectors in the European Union: characterisation, potentials, barriers and policies. Energy, 2003, 28, 673-690.	8.8	85
26	Novel Energy Stored Single-Stage Photovoltaic Power System With Constant DC-Link Peak Voltage. IEEE Transactions on Sustainable Energy, 2014, 5, 28-36.	8.8	83
27	Fabrication and characterization of bending and pressure sensors for a soft prosthetic hand. Journal of Micromechanics and Microengineering, 2018, 28, 034001.	2.6	82
28	Multi-objective power generation expansion planning with high penetration of renewables. Renewable and Sustainable Energy Reviews, 2018, 81, 2637-2643.	16.4	82
29	A parameter optimized model of a Proton Exchange Membrane fuel cell including temperature effects. Journal of Power Sources, 2008, 185, 952-960.	7.8	78
30	Soft Bioelectronic Stickers: Selection and Evaluation of Skinâ€Interfacing Electrodes. Advanced Healthcare Materials, 2019, 8, e1900234.	7.6	77
31	Olfactory coordinated area coverage. Autonomous Robots, 2006, 20, 251-260.	4.8	76
32	Design of Transverse Flux Linear Switched Reluctance Motor. IEEE Transactions on Magnetics, 2009, 45, 113-119.	2.1	76
33	Ground source heat pumps as high efficient solutions for building space conditioning and for integration in smart grids. Energy Conversion and Management, 2015, 103, 991-1007.	9.2	76
34	Bi-Phasic Agâ€“Inâ€“Ga-Embedded Elastomer Inks for Digitally Printed, Ultra-Stretchable, Multi-layer Electronics. ACS Applied Materials & Interfaces, 2021, 13, 14552-14561.	8.0	76
35	Reliability and Operation of High-Efficiency Induction Motors. IEEE Transactions on Industry Applications, 2016, 52, 4628-4637.	4.9	72
36	Reliable interfaces for EGaIn multi-layer stretchable circuits and microelectronics. Lab on A Chip, 2019, 19, 897-906.	6.0	72

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37	Multi-robot exploration and fire searching. , 2009, , .		68
38	Energy storage system-based power control for grid-connected wind power farm. International Journal of Electrical Power and Energy Systems, 2013, 44, 115-122.	5.5	68
39	Review of Smart City Assessment Tools. Smart Cities, 2020, 3, 1117-1132.	9.4	68
40	Fully Untethered Battery-free Biomonitoring Electronic Tattoo with Wireless Energy Harvesting. Scientific Reports, 2020, 10, 5539.	3.3	64
41	Market transformation of energy-efficient motor technologies in the EU. Energy Policy, 2003, 31, 563-575.	8.8	62
42	Novel Multiflux Level, Three-Phase, Squirrel-Cage Induction Motor for Efficiency and Power Factor Maximization. IEEE Transactions on Energy Conversion, 2008, 23, 101-109.	5.2	61
43	An Effective Control Technique for Medium-Voltage High-Power Induction Motor Fed by Cascaded Neutral-Point-Clamped Inverter. IEEE Transactions on Industrial Electronics, 2010, 57, 2659-2668.	7.9	61
44	The hybrid OmniClimber robot: Wheel based climbing, arm based plane transition, and switchable magnet adhesion. Mechatronics, 2016, 36, 136-146.	3.3	60
45	Reversible polymer-gel transition for ultra-stretchable chip-integrated circuits through self-soldering and self-coating and self-healing. Nature Communications, 2021, 12, 4666.	12.8	59
46	Technical and economical considerations on super high-efficiency three-phase motors. , 2012, , .		57
47	Comparison of Protection Requirements in IE2-, IE3-, and IE4-Class Motors. IEEE Transactions on Industry Applications, 2016, 52, 3603-3610.	4.9	56
48	Autonomous Selection of Closing Posture of a Robotic Hand Through Embodied Soft Matter Capacitive Sensors. IEEE Sensors Journal, 2017, 17, 5669-5677.	4.7	55
49	Method for In-Field Evaluation of the Stator Winding Connection of Three-Phase Induction Motors to Maximize Efficiency and Power Factor. IEEE Transactions on Energy Conversion, 2006, 21, 370-379.	5.2	52
50	3DCLIMBER: A climbing robot for inspection of 3D human made structures. , 2008, , .		52
51	A new parameter extraction method for accurate modeling of PEM fuel cells. International Journal of Energy Research, 2009, 33, 978-988.	4.5	51
52	Modeling and SVPWM control of quasi-Z-source inverter. , 2011, , .		50
53	Adaptive under-actuated anthropomorphic hand: ISR-SoftHand. , 2014, , .		50
54	Portfolio optimization of renewable energy assets: Hydro, wind, and photovoltaic energy in the regulated market in Brazil. Energy Economics, 2017, 64, 238-250.	12.1	50

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55	3DCLIMBER: Climbing and manipulation over 3D structures. Mechatronics, 2011, 21, 48-62.	3.3	49
56	Wearable and Comfortable e-Textile Headband for Long-Term Acquisition of Forehead EEG Signals. IEEE Sensors Journal, 2020, 20, 15107-15116.	4.7	49
57	Ground source heat pump carbon emissions and primary energy reduction potential for heating in buildings in Europeâ€"results of a case study in Portugal. Renewable and Sustainable Energy Reviews, 2015, 45, 755-768.	16.4	48
58	A review on energy efficiency and demand response with focus on small and medium data centers. Energy Efficiency, 2019, 12, 1399-1428.	2.8	48
59	Comparative analysis of IEEE 112-B and IEC 34-2 efficiency testing standards using stray load losses in low-voltage three-phase, cage induction motors. IEEE Transactions on Industry Applications, 2002, 38, 608-614.	4.9	46
60	Energy-efficient elevators and escalators in Europe: An analysis of energy efficiency potentials and policy measures. Energy and Buildings, 2012, 47, 151-158.	6.7	45
61	Technical and economic impact of residential electricity storage at local and grid level for Portugal. Applied Energy, 2014, 128, 254-264.	10.1	45
62	Simulating pursuit with machine experiments with robots and artificial vision. IEEE Transactions on Automation Science and Engineering, 1998, 14, 1-18.	2.3	44
63	Direct current microgrids based on solar power systems and storage optimization, as a tool for cost-effective rural electrification. Renewable Energy, 2017, 111, 275-283.	8.9	43
64	Policy options to promote energy efficient electric motors and drives in the EU. Renewable and Sustainable Energy Reviews, 2017, 74, 1275-1286.	16.4	43
65	Untethered Disposable Health Monitoring Electronic Patches with an Integrated Ag‹sub›2‹/sub›Oâ€"Zn Battery, a AgInGa Current Collector, and Hydrogel Electrodes. ACS Applied Materials & Interfaces, 2020, 12, 3407-3414.	8.0	43
66	Development of an industrial pipeline inspection robot. Industrial Robot, 2010, 37, 309-322.	2.1	42
67	Sustainability in university campus: options for achieving nearly zero energy goals. International Journal of Sustainability in Higher Education, 2018, 19, 790-816.	3.1	42
68	High Resolution Soft and Stretchable Circuits with PVA/Liquidâ€Metal Mediated Printing. Advanced Materials Technologies, 2020, 5, 2000343.	5.8	42
69	Source Reliability in a Combined Wind-Solar-Hydro System. IEEE Transactions on Power Apparatus and Systems / Technical Operations Committee, 1983, PAS-102, 1515-1520.	0.4	41
70	Integration of renewable energy generation with EV charging strategies to optimize grid load balancing. , 2010, , .		41
71	Impacts of plug-in electric vehicles in the portuguese electrical grid. Transportation Research, Part D: Transport and Environment, 2018, 62, 372-385.	6.8	40
72	Multi-impact evaluation of new medium and large hydropower plants in Portugal centre region. Renewable and Sustainable Energy Reviews, 2005, 9, 149-167.	16.4	38

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73	Electric motor standards, ecodesign and global market transformation. , 2008, , .		37
74	New technology trends and policy needs in energy efficient motor systems - A major opportunity for energy and carbon savings. Renewable and Sustainable Energy Reviews, 2019, 115, 109384.	16.4	37
75	Multisensor Demining Robot. Autonomous Robots, 2005, 18, 275-291.	4.8	36
76	Quasi-Z-Source inverter based PMSG wind power generation system. , 2011, , .		36
77	Managing the Charging of Electrical Vehicles: Impacts on the Electrical Grid and on the Environment. IEEE Intelligent Transportation Systems Magazine, 2014, 6, 54-65.	3.8	36
78	Induction motor downsizing as a low-cost strategy to save energy. Journal of Cleaner Production, 2012, 24, 117-131.	9.3	35
79	Power Quality Problems and New Solutions. Renewable Energy and Power Quality Journal, 2003, 1, 25-33.	0.2	34
80	Underactuated anthropomorphic hands: Actuation strategies for a better functionality. Robotics and Autonomous Systems, 2015, 74, 267-282.	5.1	33
81	Reducing Energy Costs in Electric-Motor-Driven Systems: Savings Through Output Power Reduction and Energy Regeneration. IEEE Industry Applications Magazine, 2018, 24, 84-97.	0.4	33
82	3R Electronics: Scalable Fabrication of Resilient, Repairable, and Recyclable Softâ€Matter Electronics. Advanced Materials, 2022, 34, .	21.0	33
83	Carbon doped PDMS: conductance stability over time and implications for additive manufacturing of stretchable electronics. Journal of Micromechanics and Microengineering, 2017, 27, 035010.	2.6	32
84	Power flow control for quasi-Z source inverter with battery based PV power generation system. , 2011, , .		31
85	The role of Smart Grids to foster energy efficiency. Energy Efficiency, 2013, 6, 621-639.	2.8	31
86	Learning sensor-based navigation of a real mobile robot in unknown worlds. IEEE Transactions on Systems, Man, and Cybernetics, 1999, 29, 164-178.	5.0	30
87	Stator Winding Connection-Mode Management in Line-Start Permanent Magnet Motors to Improve Their Efficiency and Power Factor. IEEE Transactions on Energy Conversion, 2013, 28, 523-534.	5.2	29
88	Technology assessment: energy-efficient belt transmissions. Energy and Buildings, 1995, 22, 245-253.	6.7	28
89	3D Printed Stretchable Liquid Gallium Battery. Advanced Functional Materials, 2022, 32, .	14.9	28
90	Total costs and benefits of biomass in selected regions of the European Union. Energy, 2000, 25, 1081-1095.	8.8	27

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91	Foot Gesture Recognition Through Dual Channel Wearable EMG System. IEEE Sensors Journal, 2019, 19, 10187-10197.	4.7	26
92	Energy-efficient distribution transformers in Europe: impact of Ecodesign regulation. Energy Efficiency, 2016, 9, 401-424.	2.8	24
93	Comparison of different cooling fan designs for electric motors. , 2017, , .		24
94	Performance analysis and design of parallel kinematic machines using interval analysis. Mechanism and Machine Theory, 2017, 115, 218-236.	4.5	23
95	Nondrying, Sticky Hydrogels for the Next Generation of High-Resolution Conformable Bioelectronics. ACS Applied Electronic Materials, 2020, 2, 3390-3401.	4.3	23
96	Iterative multistep explicit camera calibration. IEEE Transactions on Automation Science and Engineering, 1999, 15, 897-917.	2.3	21
97	Assessment of Laser Range Finders in risky environments. , 2008, , .		21
98	Integration of PEV in Portuguese distribution grid: Analysis of harmonic current emissions in charging points. , 2011, , .		21
99	Reliability and operation of high-efficiency induction motors. , 2015, , .		21
100	Experiments to observe the impact of power quality and voltage-source inverters on the temperature of three-phase cage induction motors using an infra-red camera. , 2009, , .		20
101	Cooperative multi-agent mapping of three-dimensional structures for pipeline inspection applications. International Journal of Robotics Research, 2012, 31, 1489-1503.	8.5	20
102	Soft-matter sensor for proximity, tactile and pressure detection. , 2017, , .		20
103	A Review of Energy Modeling Tools for Energy Efficiency in Smart Cities. Smart Cities, 2021, 4, 1420-1436.	9.4	20
104	Environmental monitoring with mobile robots. , 2005, , .		19
105	Mobile robot olfaction. Autonomous Robots, 2006, 20, 183-184.	4.8	19
106	OmniClimber: An omnidirectional light weight climbing robot with flexibility to adapt to non-flat surfaces. , 2012, , .		19
107	Overview on energy saving opportunities in electric motor driven systems - Part 1: System efficiency improvement. , 2016, , .		19
108	Energy-efficient off-grid systemsâ€"review. Energy Efficiency, 2020, 13, 349-376.	2.8	19

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109	Technical and economic considerations on induction motor oversizing. Energy Efficiency, 2016, 9, 1-25.	2.8	18
110	Standards for Super-Premium Efficiency class for electric motors. , 2009, , .		17
111	Design and Modeling of a Standalone DC-Microgrid for Off-Grid Schools in Rural Areas of Developing Countries. Energies, 2020, 13, 6379.	3.1	17
112	Simulating pursuit with machines. Experiments with robots and artificial vision. , 0, , .		16
113	Impact of steady-state voltage supply anomalies on three-phase squirrel-cage induction motors. , 2007, , .		16
114	ENERsip: M2M-based platform to enable energy efficiency within energy-positive neighbourhoods. , 2011, , .		16
115	A low-cost approach for self-calibration of climbing robots. Robotica, 2011, 29, 23-34.	1.9	16
116	Flexirigid, a novel two phase flexible gripper. , 2013, , .		16
117	Warming up a stream reach: design of a hydraulic and heating system. Limnology and Oceanography: Methods, 2013, 11, 410-417.	2.0	16
118	A novel grid-based reconfigurable spatial parallel mechanism with large workspace. Mechanism and Machine Theory, 2017, 115, 149-167.	4.5	16
119	The Role of Electrification in the Decarbonization of the Energy Sector in Portugal. Energies, 2022, 15, 1759.	3.1	16
120	Star- and delta-connected windings tolerance to voltage unbalance in induction motors. , 2014, , .		14
121	Comparison of Different Tapped Windings for Flux Adjustment in Induction Motors. IEEE Transactions on Energy Conversion, 2014, 29, 375-391.	5.2	14
122	White stork risk mitigation in high voltage electric distribution networks. Ecological Engineering, 2016, 91, 212-220.	3.6	14
123	Experimental evaluation of electric clean cooking options for rural areas of developing countries. Sustainable Energy Technologies and Assessments, 2021, 43, 100954.	2.7	14
124	Alternatives to compressor cooling in residences. Energy and Buildings, 1992, 18, 269-286.	6.7	13
125	Automatic Change of the Stator-Winding Connection of Variable-Load Three-Phase Induction Motors to Improve the Efficiency and Power Factor. , 0, , .		13
126	Domestic Service Robots [TC Spotlight]. IEEE Robotics and Automation Magazine, 2011, 18, 18-20.	2.0	13

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127	Beyond induction motors — Technology trends to move up efficiency. , 2013, , .		13
128	Synchronous Reluctance Motor Drive for Electric Vehicles Including Cross-Magnetic Saturation. , 2014, , .		13
129	Substation Interlocking and Sequence Switching Using a Digital Computer. IEEE Transactions on Power Apparatus and Systems / Technical Operations Committee, 1981, PAS-100, 3002-3007.	0.4	12
130	Application of odor sensors in mobile robotics. Lecture Notes in Control and Information Sciences, 1998, , 82-95.	1.0	12
131	Mobile pneumatic robot for demining. , 0, , .		12
132	Evaluation of fuel-switching opportunities in the residential sector. Energy and Buildings, 2004, 36, 195-203.	6.7	12
133	Novel Multi-Flux Level, Three-Phase, Squirrel-Cage Induction Motor for Efficiency and Power Factor Maximization. , 2006, , .		12
134	Slot-embedded partial electrostatic shield for high-frequency bearing current mitigation in inverter-fed induction motors. , 2010, , .		12
135	Single-Phasing Protection of Line-Operated Motors of Different Efficiency Classes. IEEE Transactions on Industry Applications, 2018, 54, 2071-2084.	4.9	12
136	Inefficient cooking systemsÂa challenge for sustainable development: a case of rural areas of Sub-Saharan Africa. Environment, Development and Sustainability, 2021, 23, 14697-14721.	5.0	12
137	A Performance Evaluation of Three-Phase Induction Electric Motors between 1945 and 2020. Energies, 2022, 15, 2002.	3.1	12
138	Advanced monitoring technologies for the evaluation of demand-side management programs. IEEE Transactions on Power Systems, 1994, 9, 1691-1697.	6.5	11
139	Trajectory recovery and 3D mapping from rotation-compensated imagery for an airship. , 2007, , .		11
140	Overview of Retrofitting Options in Induction Motors to Improve Their Efficiency and Reliability. , 2018, , .		11
141	Low-Cost System for Early Detection and Deployment of Countermeasures Against Wild Fires. , 2019, , .		11
142	University Campus Microgrid for Supporting Sustainable Energy Systems Operation. , 2020, , .		11
143	Toward Chemical-Trail Following Robots. , 2008, , .		10
144	Small-hydropower integration in a multi-purpose dam-bridge for sustainable urban mobility. Renewable and Sustainable Energy Reviews, 2011, 15, 5092-5103.	16.4	10

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145	Magnetic omnidirectional wheels for climbing robots. , 2013, , .		10
146	Comparison of losses in star- and delta-connected induction motors with saturated core. , 2017, , .		10
147	Residential cool storage: peak load reduction alternatives. IEEE Transactions on Power Systems, 1988, 3, 837-843.	6.5	9
148	A distributed system for robotic multi-sensor integration. Industrial Metrology, 1990, 1, 217-229.	0.3	9
149	Examining the potential of natural gas demand-side measures to benefit customers, the distribution utility, and the environment: two case studies from Europe. Energy, 2004, 29, 979-1000.	8.8	9
150	Estimation of primary current in saturated current transformer using flexible neural network. Transactions of the Institute of Measurement and Control, 2006, 28, 81-91.	1.7	9
151	Motor bearings and insulation system condition diagnosis by means of common-mode currents and shaft-ground voltage correlation. , 2008, , .		9
152	In-house monitoring and control network for the Smart Grid of the future. , 2011, , .		9
153	InchwormClimber: A light-weight biped climbing robot with a switchable magnet adhesion unit. , 2015, , .		9
154	Overview on energy saving opportunities in electric motor driven systems - Part 2: Regeneration and output power reduction. , 2016, , .		9
155	Energy savings potential associated with stator winding connection mode change in induction motors. , 2016, , .		9
156	SCALAâ€"A Scalable Rail-based Multirobot System for Large Space Automation: Design and Development. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2208-2217.	5.8	9
157	Multi-Robot Fire Searching in Unknown Environment. Springer Tracts in Advanced Robotics, 2010, , 341-351.	0.4	9
158	Saving electricity in commercial buildings with adjustable-speed drives. IEEE Transactions on Industry Applications, 1988, 24, 439-443.	4.9	8
159	Overcoming problems with harmonics and low power factors. Energy, 1993, 18, 99-106.	8.8	8
160	ThermalSkin: A Distributed Sensor for Anemotaxis Robot Navigation. , 2006, , .		8
161	Minimization of energy storage requirements for a mixed renewable system with demand-side management. , 2009, , .		8
162	3D Surface-Tracking with a robot manipulator. Journal of Intelligent and Robotic Systems: Theory and Applications, 1996, 15, 401-417.	3.4	7

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163	Positional control of pneumatic manipulators for construction tasks. Automation in Construction, 2002, 11, 655-665.	9.8	7
164	Electrical power delivery improvement in Portugal through quality function deployment. , 2007, , .		7
165	Considerations on in-field induction motor load estimation methods. , 2008, , .		7
166	A comparison study on Pneumatic Muscles and electrical motors. , 2009, , .		7
167	Stator winding connection mode management in line-start permanent magnet motors to improve their efficiency and power factor. , 2012, , .		7
168	OmniClimber-II: An omnidirectional climbing robot with high maneuverability and flexibility to adapt to non-flat surfaces. , 2013, , .		7
169	Night operation, analysis, and control of singleâ€phase quasiâ€Zâ€source photovoltaic power system. IET Renewable Power Generation, 2019, 13, 2817-2829.	3.1	7
170	How to decarbonize developing cities by 2050: A case from Tabriz-Iran. Renewable Energy, 2021, 178, 620-638.	8.9	7
171	An assessment of the impact of Brazilian energy efficiency policies for electric motors. Energy Nexus, 2022, 5, 100033.	7.7	7
172	Smart Thermostats for a Campus Microgrid: Demand Control and Improving Air Quality. Energies, 2022, 15, 1359.	3.1	7
173	Tailor-made smart glove for robot teleoperation, using printed stretchable sensors. , 2022, , .		7
174	Use of energy management systems for performance monitoring of industrial load-shaping measures. Energy, 1988, 13, 253-263.	8.8	6
175	Self calibration of step-by-step based climbing robots. , 2009, , .		6
176	Switchable magnets for robotics applications. , 2015, , .		6
177	Low power mode energy demand of household appliancesâ€"SELINA and APP projects. Energy Efficiency, 2017, 10, 1299-1314.	2.8	6
178	3D printed endoskeleton with a soft skin for upper-limb body actuated prosthesis. , 2017, , .		6
179	Laser Writing of Eutectic Galliumâ€"Indium Alloy Grapheneâ€Oxide Electrodes and Semitransparent Conductors. Advanced Materials Technologies, 2022, 7, 2101238.	5.8	6
180	Energy access during and post-COVID-19 pandemic in sub-Saharan countries: the case of Ethiopia. Environment, Development and Sustainability, 2023, 25, 1236-1257.	5.0	6

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181	The role of energy efficiency and renewable energies to accelerate sustainable energy access â€" a perspective case study of Mozambique. Energy Efficiency, 2022, 15, .	2.8	6
182	Demand-side management opportunities through the use of energy-efficient motor systems. IEEE Transactions on Power Systems, 1990, 5, 852-861.	6.5	5
183	Power Quality Costs estimation in Portuguese industry. , 2011, , .		5
184	Monitoring system for the local distributed generation infrastructures of the smart grid. , 2013, , .		5
185	A new switched reluctance motor with distributed winding. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2014, 33, 2158-2179.	0.9	5
186	Modeling and analysis of LC filter integrated quasiâ€Z source indirect matrix converter. International Journal of Circuit Theory and Applications, 2020, 48, 567-586.	2.0	5
187	Propose of a Benchmark for Pole Climbing Robots. Springer Tracts in Advanced Robotics, 2008, , 215-222.	0.4	5
188	Dual, Three-Level, Quasi-Z-Source, Indirect Matrix Converter for Motors With Open-Ended Windings. IEEE Transactions on Energy Conversion, 2023, 38, 64-74.	5.2	5
189	An example of energy savings in LDCS: Improving electrical equipment in Pakistan. Energy, 1992, 17, 969-982.	8.8	4
190	Advanced monitoring technologies for the evaluation of demand-side management programs. Energy, 1994, 19, 661-678.	8.8	4
191	Actions to promote energy-efficient electric motor repair. International Journal of Energy Technology and Policy, 2003, 1, 302.	0.2	4
192	Multi-Stage Sensor Fusion for Landmine Detection. , 2006, , .		4
193	Detection of Natural Landmarks for Mapping by a Demining Robot. , 2006, , .		4
194	Dynamic Modeling and Simulation of an Optimized Proton Exchange Membrane Fuel Cell System. , 2007, , 171.		4
195	Impact of voltage sags and continuous unbalance on variable-speed drives. , 2010, , .		4
196	Transverse-flux linear switched reluctance motor for semi-magnetic suspending rail vehicle. , 2011, , .		4
197	Autonomous mapping for inspection of 3D structures. , 2011, , .		4
198	An improved MPPT method for quasi-Z-source inverter based grid-connected photovoltaic power system. , 2012, , .		4

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199	Actuation strategies for underactuated anthropomorphic hands. , 2014, , .		4
200	Autonomous System for Wildfire and Forest Fire Early Detection and Control. Inventions, 2020, 5, 41.	2.5	4
201	IEC61800-9 System Standards as a Tool to Boost the Efficiency of Electric Motor Driven Systems Worldwide. Inventions, 2020, 5, 20.	2.5	4
202	Large Scale Integration of Wind Power Generation. Energy Systems, 2010, , 95-119.	0.5	4
203	Voltage Unbalance Impact on Coil-Side Temperature Rise in a Delta-Connected, Dual-Winding Induction Motor. , 2020, , .		4
204	Dynamic hand gesture recognition using a stretchable multi-layer capacitive array, proximity sensing, and a SVM classifier. , 2021, , .		4
205	SCALA: Scalable Modular Rail based Multi-agent Robotic System for Fine Manipulation over Large Workspaces. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 89, 421-438.	3.4	4
206	Source Reliability in a Combined Wind-Solar-Hydro System. IEEE Power Engineering Review, 1983, PER-3, 28-28.	0.1	3
207	Sensor-based 3-D autonomous surface-following control. Mathematics and Computers in Simulation, 1996, 41, 429-444.	4.4	3
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