

# Jong-Suk Ro

## List of Publications by Year in descending order

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136  
papers

1,729  
citations

331670

21  
h-index

414414

32  
g-index

136  
all docs

136  
docs citations

136  
times ranked

1168  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comprehensive Review on Structural Topologies, Power Levels, Energy Storage Systems, and Standards for Electric Vehicle Charging Stations and Their Impacts on Grid. IEEE Access, 2021, 9, 128069-128094.	4.2	134
2	Recent Challenges and Methodologies in Smart Grid Demand Side Management: State-of-the-Art Literature Review. Mathematical Problems in Engineering, 2021, 2021, 1-16.	1.1	59
3	Optimal Design of an Interior Permanent Magnet Synchronous Motor by Using a New Surrogate-Assisted Multi-Objective Optimization. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	57
4	A Super Twisting Fractional Order Terminal Sliding Mode Control for DFIG-Based Wind Energy Conversion System. Energies, 2020, 13, 2158.	3.1	50
5	Electromagnetic and Thermal Analysis of a Surface-Mounted Permanent-Magnet Motor with Overhang Structure. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	41
6	Optimal Design of an Axial Flux Permanent Magnet Synchronous Motor for the Electric Bicycle. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	38
7	A 2-D Finite-Element Analysis for a Permanent Magnet Synchronous Motor Taking an Overhang Effect Into Consideration. IEEE Transactions on Magnetics, 2013, 49, 4894-4899.	2.1	35
8	Analysis of temperature rise for piezoelectric transformer using finite-element method. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 1449-1457.	3.0	33
9	Analysis and Design of a Multi-Layered and Multi-Segmented Interior Permanent Magnet Motor by Using an Analytic Method. IEEE Transactions on Magnetics, 2014, 50, 1-8.	2.1	33
10	Integral Super Twisting Sliding Mode Based Sensorless Predictive Torque Control of Induction Motor. IEEE Access, 2020, 8, 186740-186755.	4.2	33
11	Switch Ladder Modified H-Bridge Multilevel Inverter With Novel Pulse Width Modulation Technique. IEEE Access, 2019, 7, 102073-102086.	4.2	31
12	Sensorless fractional order composite sliding mode control design for wind generation system. ISA Transactions, 2021, 111, 275-289.	5.7	29
13	Cogging Torque Minimization of a Dual-Type Axial-Flux Permanent Magnet Motor Using a Novel Optimization Algorithm. IEEE Transactions on Magnetics, 2013, 49, 5106-5111.	2.1	28
14	Characteristic analysis and design of a novel permanent magnetic actuator for a vacuum circuit breaker. IET Electric Power Applications, 2013, 7, 87-96.	1.8	26
15	Electromagnetic and thermal analysis and design of a novel structured surface mounted permanent magnet motor with high power density. IET Electric Power Applications, 2019, 13, 472-478.	1.8	26
16	Design and Analysis of a 4-kW Two-Stack Coreless Axial Flux Permanent Magnet Synchronous Machine for Low-Speed Applications. IEEE Access, 2019, 7, 173848-173854.	4.2	25
17	Identification of material constants for piezoelectric transformers by three-dimensional, finite-element method and a design-sensitivity method. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 965-971.	3.0	24
18	Novel Electromagnetic Actuator Using a Permanent Magnet and an Inter-Locking Mechanism for a Magnetic Switch. IEEE Transactions on Magnetics, 2013, 49, 2229-2232.	2.1	24

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19	A Novel Surrogate-Assisted Multi-Objective Optimization Algorithm for an Electromagnetic Machine Design. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	24
20	Characteristic Analysis and Design of a Thomson Coil Actuator Using an Analytic Method and a Numerical Method. IEEE Transactions on Magnetics, 2013, 49, 5749-5755.	2.1	23
21	Control Methods for Standalone and Grid Connected Micro-Hydro Power Plants With Synthetic Inertia Frequency Support: A Comprehensive Review. IEEE Access, 2020, 8, 176313-176329.	4.2	23
22	Robust Passivity Cascade Technique-Based Control Using RBFN Approximators for the Stabilization of a Cart Inverted Pendulum. Mathematics, 2021, 9, 1229.	2.2	23
23	Backstepping Based Super-Twisting Sliding Mode MPPT Control with Differential Flatness Oriented Observer Design for Photovoltaic System. Electronics (Switzerland), 2020, 9, 1543.	3.1	21
24	Magnetic Equivalent Circuit Model Considering Overhang Structure of a Surface-Mounted Permanent-Magnet Motor. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	20
25	Application of quadratic linearization state feedback control with hysteresis reference reformer to improve the dynamic response of interior permanent magnet synchronous motors. ISA Transactions, 2020, 99, 167-190.	5.7	20
26	Performance Improvement of Dual Stator Axial Flux Spoke Type Permanent Magnet Vernier Machine. IEEE Access, 2021, 9, 64179-64188.	4.2	20
27	Characteristics Analysis and Design of a Novel Magnetic Contactor for a 220 V/85 A. IEEE Transactions on Magnetics, 2013, 49, 5498-5506.	2.1	19
28	Semi-Analytical Modeling and Analysis of Halbach Array. Energies, 2020, 13, 1252.	3.1	19
29	A New Small-Scale Self-Excited Wound Rotor Synchronous Motor Topology. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	19
30	Look-up Data Tables-Based Modeling of Switched Reluctance Machine and Experimental Validation of the Static Torque with Statistical Analysis. Journal of Magnetics, 2020, 25, 233-244.	0.4	19
31	Design and characteristic analysis of L1B4 ultrasonic motor considering contact mechanism. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 2054-2064.	3.0	18
32	A Hybrid Algorithm Using Shape and Topology Optimization for the Design of Electric Machines. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	18
33	A Robust Multimodal Optimization Algorithm Based on a Sub-Division Surrogate Model and an Improved Sampling Method. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	18
34	Novel Analytical Method for Overhang Effects in Surface-Mounted Permanent-Magnet Machines. IEEE Access, 2019, 7, 148453-148461.	4.2	18
35	Minimization of Cogging Torque in Axial Field Flux Switching Machine Using Arc Shaped Triangular Magnets. IEEE Access, 2020, 8, 227193-227201.	4.2	18
36	Cogging Torque Optimization of Axial Flux Permanent Magnet Motor. IEEE Transactions on Magnetics, 2013, 49, 2189-2192.	2.1	17

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37	Power Quality Improvement in HVDC MMC With Modified Nearest Level Control in Real-Time HIL Based Setup. IEEE Access, 2020, 8, 221712-221719.	4.2	17
38	Characteristic analysis and design of a B14 rotary ultrasonic motor for a robot arm taking the contact mechanism into consideration. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 715-728.	3.0	16
39	Dual-Inverter-Controlled Brushless Operation of Wound Rotor Synchronous Machines Based on an Open-Winding Pattern. Energies, 2020, 13, 2205.	3.1	16
40	Characteristic analysis of a traveling wave ultrasonic motor using an ellipsoidal static contact model. Smart Materials and Structures, 2009, 18, 115024.	3.5	15
41	Analytical Modeling for Optimal Rotor Shape to Design Highly Efficient Line-Start Permanent Magnet Synchronous Motor. IEEE Access, 2020, 8, 145672-145686.	4.2	15
42	Analysis and Design of a Delta-Type Interior Permanent Magnet Synchronous Generator by Using an Analytic Method. IEEE Access, 2019, 7, 85139-85145.	4.2	14
43	Analytical Sub-Domain Model for Magnetic Field Computation in Segmented Permanent Magnet Switched Flux Consequent Pole Machine. IEEE Access, 2021, 9, 3774-3783.	4.2	14
44	Analysis and Design of an Axial Flux Permanent Magnet Motor for in-Wheel System Using a Novel Analytical Method Combined With a Numerical Method. IEEE Access, 2020, 8, 203994-204011.	4.2	13
45	Analysis and Design Optimization of V-Shaped Permanent Magnet Vernier Motor for Torque Density Improvement. IEEE Access, 2021, 9, 13542-13552.	4.2	13
46	Characteristic Analysis of an Traveling Wave Ultrasonic Motor using a Cylindrical Dynamic Contact Model. Journal of Electrical Engineering and Technology, 2013, 8, 1415-1423.	2.0	13
47	Optimal design of ultrasonic motor using evolution strategy and finite element method. International Journal of Applied Electromagnetics and Mechanics, 2007, 25, 699-704.	0.6	12
48	Analysis of Overhang Effect for a Surface-Mounted Permanent Magnet Machine Using a Lumped Magnetic Circuit Model. IEEE Transactions on Magnetics, 2014, 50, 1-7.	2.1	12
49	Analysis and design of diverse electromagnet type actuators for moulded case circuit breaker. IET Electric Power Applications, 2016, 10, 849-857.	1.8	12
50	Hierarchical Control Implementation for Meshed AC/Multi-Terminal DC Grids With Offshore Windfarms Integration. IEEE Access, 2019, 7, 142233-142245.	4.2	12
51	Analysis and Design of Novel Structured High Torque Density Magnetic-Geared Permanent Magnet Machine. IEEE Access, 2021, 9, 64574-64586.	4.2	12
52	Reduction of Torque Ripples in Multi-Stack Slotless Axial Flux Machine by Using Right Angled Trapezoidal Permanent Magnet. IEEE Access, 2021, 9, 22760-22773.	4.2	12
53	Voltage/Frequency Regulation With Optimal Load Dispatch in Microgrids Using SMC Based Distributed Cooperative Control. IEEE Access, 2022, 10, 64873-64889.	4.2	12
54	Novel Hybrid Radial and Axial Flux Permanent-Magnet Machine Using Integrated Windings for High-Power Density. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	11

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55	Finite-Time Fast Dynamic Terminal Sliding Mode Maximum Power Point Tracking Control Paradigm for Permanent Magnet Synchronous Generator-Based Wind Energy Conversion System. Applied Sciences (Switzerland), 2020, 10, 6361.	2.5	11
56	Real-Time Controller Design Test Bench for High-Voltage Direct Current Modular Multilevel Converters. Applied Sciences (Switzerland), 2020, 10, 6004.	2.5	11
57	Experimental Determination of Equivalent Iron Loss Resistance for Prediction of Iron Losses in a Switched Reluctance Machine. IEEE Transactions on Magnetics, 2022, 58, 1-4.	2.1	11
58	Efficient Real-Time Controller Design Test Bench for Power Converter Applications. IEEE Access, 2021, 9, 118880-118892.	4.2	11
59	High-Efficient Brushless Wound Rotor Synchronous Machine Topology Based on Sub-Harmonic Field-Excitation Technique. Energies, 2021, 14, 4427.	3.1	11
60	Minimization of a Cogging Torque for an Interior Permanent Magnet Synchronous Machine using a Novel Hybrid Optimization Algorithm. Journal of Electrical Engineering and Technology, 2014, 9, 859-865.	2.0	11
61	Statistical Energy Information and Analysis of Pakistan Economic Corridor Based on Strengths, Availabilities, and Future Roadmap. IEEE Access, 2020, 8, 169701-169739.	4.2	10
62	Modified Nearest Level Modulation for Full-Bridge Based HVDC MMC in Real-Time Hardware-in-Loop Setup. IEEE Access, 2021, 9, 114998-115005.	4.2	10
63	Simplified Brushless Wound Field Synchronous Machine Topology Based on a Three-Phase Rectifier. IEEE Access, 2021, 9, 8637-8648.	4.2	10
64	Analysis and Design of a Novel Outer Mover Moving Magnet Linear Oscillating Actuator for a Refrigeration System. IEEE Access, 2021, 9, 121240-121252.	4.2	10
65	Analysis and Optimization of Axial Flux Permanent Magnet Machine for Cogging Torque Reduction. Mathematics, 2021, 9, 1738.	2.2	10
66	Optimal Design of a Novel Permanent Magnetic Actuator using Evolutionary Strategy Algorithm and Kriging Meta-model. Journal of Electrical Engineering and Technology, 2014, 9, 471-477.	2.0	10
67	Performance Improvement of Multi-Rotor Axial Flux Vernier Permanent Magnet Machine by Permanent Magnet Shaping. IEEE Access, 2021, 9, 143188-143197.	4.2	10
68	Characteristic analysis and shape optimal design of a ring-type traveling wave ultrasonic motor. EPJ Applied Physics, 2013, 63, 10901.	0.7	9
69	Survey of a contact model and characteristic analysis method for a travelling wave ultrasonic motor. International Journal of Applied Electromagnetics and Mechanics, 2014, 46, 437-453.	0.6	9
70	Characteristic analysis and design of a novel lorentz force driving actuator for a molded case circuit breaker. IET Electric Power Applications, 2015, 9, 1-9.	1.8	9
71	Energy-Efficient Eco-Friendly Zero-Holding-Energy Magnetic Contactor for Industrial and Vehicular Applications. IEEE Transactions on Vehicular Technology, 2020, 69, 5000-5011.	6.3	9
72	Effect of the magnet shape on the performance of coreless axial flux permanent magnet synchronous generator. Electrical Engineering, 2022, 104, 959-968.	2.0	9

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73	Analysis of a nanopositioning actuator using numerical and analytic methods. Smart Materials and Structures, 2008, 17, 025025.	3.5	8
74	Analysis and design of separated permanent magnet actuator for 225AF molded case circuit breaker. , 2014, , .		8
75	Novel Non-Linear Transient Path Energy Method for the Analytical Analysis of the Non-Periodic and Non-Linear Dynamics of Electrical Machines in the Time Domain. IEEE Access, 2019, 7, 37833-37854.	4.2	8
76	A Single-Phase Line-Interactive UPS System for Transformer-Coupled Loading Conditions. IEEE Access, 2020, 8, 23143-23153.	4.2	8
77	Characteristic analysis and design of a small size Rotary Ultrasonic Motor using the Cutting Method. International Journal of Applied Electromagnetics and Mechanics, 2008, 28, 469-500.	0.6	7
78	A Design Methodology for Toroid-Type SMES Using Analytical and Finite-Element Method. IEEE Transactions on Applied Superconductivity, 2013, 23, 4900404-4900404.	1.7	7
79	A New Multimodal Optimization Algorithm for the Design of In-Wheel Motors. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	7
80	A Strategy-Selecting Hybrid Optimization Algorithm to Overcome the Problems of the No Free Lunch Theorem. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	7
81	Analysis and Design of a High-Performance Traction Motor for Heavy-Duty Vehicles. Energies, 2020, 13, 3150.	3.1	7
82	Operation and Challenges of Multi-Infeed LCCâ€“HVDC System: Commutation Failure, AC/DC Power Flow, and Voltage Stability. Applied Sciences (Switzerland), 2021, 11, 8637.	2.5	7
83	Analysis of a Surface-Mounted Permanent-Magnet Machine with Overhang Structure by Using a Novel Equivalent Magnetic Circuit Model. Journal of Electrical Engineering and Technology, 2014, 9, 1960-1966.	2.0	7
84	Analysis and Design of Novel High Speed Permanent Magnet Machine Considering Magnet Eddy Current Loss. IEEE Access, 2020, 8, 135675-135685.	4.2	6
85	Analysis of Nonlinear Dynamics of Permanent Magnet Magnetic Contactor via Novel Computationally Efficient Analytical Method Considering Stray and Leakage Fluxes. IEEE Access, 2020, 8, 57273-57282.	4.2	6
86	Symmetric and Asymmetric Configuration of Parallel-Switched d-Type Multilevel Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 7867-7879.	5.4	6
87	Brushless <sc>fieldâ€“excitation</sc> method for <sc>woundâ€“rotor</sc> synchronous machines. International Transactions on Electrical Energy Systems, 2021, 31, e12961.	1.9	6
88	Novel Single Inverter-Controlled Brushless Wound Field Synchronous Machine Topology. Mathematics, 2021, 9, 1739.	2.2	6
89	Adaptive Data Length Method for GPS Signal Acquisition in Weak to Strong Fading Conditions. Electronics (Switzerland), 2021, 10, 1735.	3.1	6
90	Brushless Field Excitation Scheme for Wound Field Synchronous Machines. Applied Sciences (Switzerland), 2020, 10, 5866.	2.5	5

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91	Cost-Effective Single-Inverter-Controlled Brushless Technique for Wound Rotor Synchronous Machines. IEEE Access, 2020, 8, 204804-204815.	4.2	5
92	Reconfigurable Power Quality Analyzer Applied to Hardware-in-Loop Test Bench. Energies, 2021, 14, 5134.	3.1	5
93	Analysis of an eddy current brake for an actuator of a high-voltage direct current circuit breaker. IET Electric Power Applications, 2019, 13, 1387-1391.	1.8	5
94	Design and analysis method for a DC magnetic contactor with a permanent magnet. , 2014, , .		4
95	A Novel Social Insect Optimization Algorithm for the Optimal Design of an Interior Permanent Magnet Synchronous Machine. IEEE Transactions on Magnetics, 2018, 54, 1-6.	2.1	4
96	Optimal design of a cascaded rectangular-type and circle-type multilevel inverters with a new switching technique. IET Power Electronics, 2020, 13, 2831-2846.	2.1	4
97	Analysis and Optimal Design of a Novel Actuator System for a Camera Module. IEEE Access, 2021, 9, 3441-3450.	4.2	4
98	Islanding Detection Strategy for Wind Farm Based on Performance Analysis of Passive Indices Having Negligible NDZ. Applied Sciences (Switzerland), 2021, 11, 9989.	2.5	4
99	Reduction of Cogging Torque in AFPM Machine Using Elliptical-Trapezoidal-Shaped Permanent Magnet. Applied Computational Electromagnetics Society Journal, 2021, 36, 1090-1098.	0.4	4
100	Analysis and Design of a Thomson Coil Actuator System for an HVDC Circuit Breaker. IEEE Access, 2022, 10, 58354-58359.	4.2	4
101	Investigation of sinusoidal shaped rotor to reduce torque ripple in axial flux permanent magnet machine. International Journal of Ambient Energy, 2022, 43, 8113-8122.	2.5	4
102	Eddy current loss analysis in the rotor of surface-mounted permanent magnet brushless machine with retainer. International Journal of Applied Electromagnetics and Mechanics, 2014, 44, 41-50.	0.6	3
103	Coupled electromagnetic-thermal analysis of a surface-mounted permanent-magnet motor with overhang structure. , 2016, , .		3
104	Analytical prediction of cogging torque for interior permanent magnet synchronous motors. International Journal of Applied Electromagnetics and Mechanics, 2017, 55, 625-635.	0.6	3
105	Next Generation Autofocus and Optical Image Stabilization System for Camera Modules Using Magnetic Shape Memory Actuators. IEEE Access, 2020, 8, 160177-160187.	4.2	3
106	Multifunctional Grid-Connected Voltage Source Inverter to Drive Induction Motor Operating With High-Inertia Load. IEEE Access, 2020, 8, 196765-196774.	4.2	3
107	Analysis and Design of Separated Permanent-Magnet Actuator for 225AF Molded Case Circuit Breaker. Journal of International Conference on Electrical Machines and Systems, 2014, 3, 487-490.	0.3	3
108	A Novel Structure of Magnetic-Geared Permanent Magnet Machine Based on Halbach Array. , 2022, , .		3

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109	Analysis of ultrasonic linear motor by using finite element method and equivalent circuit. , 0, , .		2
110	Analysis of a nano positioning actuator using a numerical method combined with a analytic method. International Journal of Applied Electromagnetics and Mechanics, 2008, 28, 379-394.	0.6	2
111	Dynamic analysis and design of an armature for an inter-locking system of a magnetic contactor. , 2013, , .		2
112	Correction to "Magnetic Equivalent Circuit Model Considering Overhang Structure of a Surface-Mounted Permanent-Magnet Motor" [Mar 15 Art. ID 8201004]. IEEE Transactions on Magnetics, 2016, 52, 1-1.	2.1	2
113	Design of Vernier Motor with Modular Winding Using Rotor Pole Pair Determination Method. , 2018, , .		2
114	Analytical modeling-based optimal design of multilayered and multisegmented interior permanent magnet synchronous motor. International Transactions on Electrical Energy Systems, 2021, 31, e12876.	1.9	2
115	High-Harmonic Injection-Based Brushless Wound Field Synchronous Machine Topology. Mathematics, 2021, 9, 1721.	2.2	2
116	Investigation of Electromagnetic Field Coupling with Twisted Conducting Line by Expanded Chain Matrix. Journal of Electrical Engineering and Technology, 2013, 8, 364-370.	2.0	2
117	Third Hankel Determinant for a Subclass of Univalent Functions Associated with Lemniscate of Bernoulli. Fractal and Fractional, 2022, 6, 48.	3.3	2
118	Inclusion Relations for Dini Functions Involving Certain Conic Domains. Fractal and Fractional, 2022, 6, 118.	3.3	2
119	Generalization of $k$ -Uniformly Starlike and Convex Functions Using $q$ -Difference Operator. Fractal and Fractional, 2022, 6, 216.	3.3	2
120	Novel Passive Islanding Detection Technique by Monitoring Reverse Power at PCC. International Transactions on Electrical Energy Systems, 2022, 2022, 1-10.	1.9	2
121	Analysis of a Permanent Magnet Machine for a High Power Density Taking Losses Into Consideration. IEEE Transactions on Magnetics, 2013, 49, 1765-1768.	2.1	1
122	Analysis and design of a coreless permanent-magnet machine considering the winding shape by using a lumped equivalent magnetic circuit model. EPJ Applied Physics, 2014, 66, 20902.	0.7	1
123	Design of an AC Magnetic Contactor with a Permanent Magnet. , 2018, , .		1
124	Flux Path Design of Synchronous Reluctance Motor to Analyze Torque Characteristic and Operating Region. , 2018, , .		1
125	Influence of a Rotor Eddy Current on Performance of a Vernier Permanent-Magnet Machine. , 2018, , .		1
126	Characteristic analysis and design of novel high-frequency shell-type coaxial transformer. IET Electric Power Applications, 2019, 13, 2027-2034.	1.8	1



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127	Novel Piezoelectric Emergency Opening Sub-System to Improve the Safety and Reliability of Zero-Holding-Energy Permanent Magnet Magnetic Contactors. IEEE Access, 2020, 8, 136176-136185.	4.2	1
128	An Optimal Design Strategy for a Thomson Coil Actuator. Journal of Electrical Engineering and Technology, 2017, 12, 182-188.	2.0	1
129	Novel Hybrid Consequent-Pole Brushless Wound Rotor Synchronous Machine for Improving Torque Characteristics. IEEE Access, 2022, 10, 35953-35964.	4.2	1
130	Brushless Wound Rotor Synchronous Machine Based on a Consequent-Pole Rotor Structure with Better Torque Attributes. International Transactions on Electrical Energy Systems, 2022, 2022, 1-12.	1.9	1
131	Inversion of piezoelectric material coefficients by using finite element method with Asymptotic Waveform Evaluation. , 0, , .		0
132	Analysis and modeling of magnetic characteristics in surface-mounted permanent-magnet machines with rotor overhang. , 2013, , .		0
133	Ratio Error Reduction of a Current Transformer Using Multiple Winding Technique. Journal of Electrical Engineering and Technology, 2019, 14, 645-651.	2.0	0
134	Correction to: Investigation of Electromagnetic Field Coupling with Twisted Conducting Line by Expanded Chain Matrix. Journal of Electrical Engineering and Technology, 2021, 16, 1193-1193.	2.0	0
135	Subclasses of Uniform Univalent Functions Associated with Srivastava and Attiya Operator. Symmetry, 2021, 13, 1536.	2.2	0
136	Analysis and Modeling of Magnetic Characteristics in Surface-Mounted Permanent-Magnet Machines with Rotor Overhang. Journal of International Conference on Electrical Machines and Systems, 2013, 2, 399-404.	0.3	0