

# Byung-Il Kwon

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82

papers

811

citations

16

h-index

24

g-index

93

ext. papers

1,036

ext. citations

2.3

avg, IF

4.94

L-index

#	Paper	IF	Citations
82	Material-Efficient Permanent-Magnet Shape for Torque Pulsation Minimization in SPM Motors for Automotive Applications. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 5779-5787	8.9	61
81	Novel Brushless Wound Rotor Synchronous Machine With Zero-Sequence Third-Harmonic Field Excitation. <i>IEEE Transactions on Magnetics</i> , <b>2016</b> , 52, 1-4	2	55
80	Design and Analysis of a Novel Brushless Wound Rotor Synchronous Machine. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-4	2	50
79	Rotor Pole Design in Spoke-Type Brushless DC Motor by Response Surface Method. <i>IEEE Transactions on Magnetics</i> , <b>2007</b> , 43, 1833-1836	2	50
78	Design and Analysis of a Novel PM-Assisted Synchronous Reluctance Machine With Axially Integrated Magnets by the Finite-Element Method. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-4	2	32
77	Optimal Rotor Shape Design of a Concentrated Flux IPM-Type Motor for Improving Efficiency and Operation Range. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 2205-2208	2	28
76	Optimal Design of a Grid-Connected-to-Rotor Type Doubly Fed Induction Generator for Wind Turbine Systems. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 3124-3127	2	25
75	Dual-stator Interior Permanent Magnet Vernier Machine Having Torque Density and Power Factor Improvement. <i>Electric Power Components and Systems</i> , <b>2014</b> , 42, 1717-1726	1	23
74	Brushless Operation of a Wound-Field Synchronous Machine Using a Novel Winding Scheme. <i>IEEE Transactions on Magnetics</i> , <b>2019</b> , 55, 1-4	2	21
73	PM Assisted, Brushless Wound Rotor Synchronous Machine. <i>Journal of Magnetics</i> , <b>2016</b> , 21, 399-404	1.9	21
72	. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-4	2	19
71	HTS Dual-Stator Spoke-Type Linear Vernier Machine for Leakage Flux Reduction. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-4	2	19
70	. <i>IEEE Transactions on Energy Conversion</i> , <b>2016</b> , 31, 1179-1191	5.4	19
69	Consequent-Pole Hybrid Excitation Brushless Wound Field Synchronous Machine With Fractional Slot Concentrated Winding. <i>IEEE Transactions on Magnetics</i> , <b>2019</b> , 55, 1-5	2	17
68	Design and optimisation of a novel asymmetric rotor structure for a PM-assisted synchronous reluctance machine. <i>IET Electric Power Applications</i> , <b>2019</b> , 13, 573-580	1.8	17
67	Design, Optimization, and Prototyping of a Transverse Flux-Type-Switched Reluctance Generator With an Integrated Rotor. <i>IEEE Transactions on Energy Conversion</i> , <b>2016</b> , 31, 1521-1529	5.4	16
66	A new brushless wound rotor synchronous machine using a special stator winding arrangement. <i>Electrical Engineering</i> , <b>2018</b> , 100, 1797-1804	1.5	16

65	Optimal Design of Wound Field Synchronous Reluctance Machines to Improve Torque by Increasing the Saliency Ratio. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-4	2	15
64	Fault-Tolerant Operation of Wound Field Synchronous Machine Using Coil Switching. <i>IEEE Access</i> , <b>2019</b> , 7, 67130-67138	3.5	15
63	A Novel Two-Phase Permanent Magnet Synchronous Motor Modeling for Torque Ripple Minimization. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 2355-2358	2	15
62	. <i>IEEE Transactions on Magnetics</i> , <b>2018</b> , 54, 1-5	2	14
61	A High Force Density HTS Tubular Vernier Machine. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-5	2	14
60	Optimal Design of a Spoke-type Permanent Magnet Motor with Phase-group Concentrated-coil Windings to Minimize Torque Pulsations. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-4	2	13
59	Optimal Design and Experimental Verification of Wound Rotor Synchronous Machine Using Subharmonic Excitation for Brushless Operation. <i>Energies</i> , <b>2018</b> , 11, 554	3.1	11
58	Brushless wound rotor synchronous machine with third-harmonic field excitation. <i>Electrical Engineering</i> , <b>2020</b> , 102, 259-265	1.5	11
57	A Novel Technique for Two-Phase BLDC Motor to Avoid Demagnetization. <i>IEEE Transactions on Magnetics</i> , <b>2016</b> , 52, 1-4	2	11
56	Consequent-Pole Hybrid Brushless Wound-Rotor Synchronous Machine. <i>IEEE Transactions on Magnetics</i> , <b>2018</b> , 54, 1-5	2	10
55	Design and Optimization of a Novel Wound Field Synchronous Machine for Torque Performance Enhancement. <i>Energies</i> , <b>2018</b> , 11, 2111	3.1	10
54	Analysis of a Novel Transverse Flux Type Permanent Magnet Reluctance Generator. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 809-812	2	10
53	Investigation of Dual-Stator Spoke-Type Vernier Machine for EV Application. <i>IEEE Transactions on Magnetics</i> , <b>2018</b> , 54, 1-5	2	9
52	Brushless wound field synchronous machine with third-harmonic field excitation using a single inverter. <i>Electrical Engineering</i> , <b>2019</b> , 101, 165-173	1.5	8
51	Analysis and Design of a PM-Assisted Wound Rotor Synchronous Machine With Reluctance Torque Enhancement. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 2887-2897	8.9	8
50	Optimal Design and Experimental Test of a SPM Motor With Cost-Effective Magnet Utilization to Suppress Torque Pulsations. <i>IEEE Transactions on Magnetics</i> , <b>2018</b> , 54, 1-5	2	7
49	High-Efficiency Dual Output Stator-PM Machine for the Two-Mode Operation of Washing Machines. <i>IEEE Transactions on Energy Conversion</i> , <b>2018</b> , 33, 2050-2059	5.4	7
48	Maximum torque control for optimal design to reduce cogging torque in spoke type interior permanent magnet synchronous motor <b>2010</b> ,		7

47	A Sag Compensator That Eliminates the Possibility of Inrush Current While Powering Transformer-Coupled Loads. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2017</b> , 5, 891-900	5.6	6
46	Winding Switching and Turn Switching in Permanent Magnet Vernier Machines for Wide Speed Range Operation and High Efficiency. <i>IEEE Access</i> , <b>2019</b> , 7, 55344-55357	3.5	6
45	Utilization of reluctance torque for improvement of the starting and average torques of a brushless wound field synchronous machine. <i>Electrical Engineering</i> , <b>2021</b> , 103, 2327-2333	1.5	6
44	A Wound-Field Pole-Changing Vernier Machine for Electric Vehicles. <i>IEEE Access</i> , <b>2020</b> , 8, 91865-91875	3.5	5
43	Improved Transverse Flux Type Permanent Magnet Reluctance Generator With Auxiliary Rotor Pole Inserted Permanent Magnet. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 1-4	2	5
42	High Gear Ratio Flux Switching Permanent Magnet Machine for High Torque Performance. <i>IEEE Access</i> , <b>2020</b> , 8, 121630-121636	3.5	5
41	Analysis of a Brushless Wound Rotor Synchronous Machine Employing a Stator Harmonic Winding. <i>IEEE Access</i> , <b>2020</b> , 8, 151392-151402	3.5	5
40	Wide-Speed Range Operation of PM Vernier Machines Using Wye and Wye-Delta Winding Configurations. <i>IEEE Access</i> , <b>2020</b> , 8, 194709-194718	3.5	5
39	Design of Low-Cost BLAC Motors for Integrated Electric Brake Systems. <i>IEEE Access</i> , <b>2019</b> , 7, 184183-184193	3.5	5
38	A Distributed Winding Wound Field Pole-Changing Vernier Machine for Variable Speed Application. <i>IEEE Transactions on Magnetics</i> , <b>2019</b> , 55, 1-6	2	4
37	A pole changing vernier machine with consequent pole rotor. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2019</b> , 59, 931-941	0.4	4
36	Dual-Mode Wound Rotor Synchronous Machine for Variable Speed Applications. <i>IEEE Access</i> , <b>2020</b> , 8, 115812-115822	3.5	4
35	Operation Method of Non-Salient Permanent Magnet Synchronous Machine for Extended Speed Range. <i>IEEE Access</i> , <b>2020</b> , 8, 105922-105935	3.5	4
34	Design and comparative analysis of single and multi-stack axial flux permanent magnet synchronous generator. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2012</b> , 39, 865-874	2.4	4
33	Newly structured micro permanent magnet type stepping motor with claw-poles. <i>IEEE Transactions on Magnetics</i> , <b>2006</b> , 42, 1331-1334	2	4
32	A Novel Starting Method of the SPM-type BLDC Motors without Position Sensor for Reciprocating Compressor. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , <b>2006</b> ,		4
31	2-D modeling and characteristic analysis of a magnetic position sensor. <i>IEEE Transactions on Magnetics</i> , <b>2005</b> , 41, 1828-1831	2	4
30	Optimal design of dual stator spoke type vernier machine considering armature winding placement. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2019</b> , 59, 921-930	0.4	3

29	Analytical Design of a Hybrid-Excited Wound Field Synchronous Machine for the Improvement of Torque Characteristics. <i>IEEE Access</i> , <b>2020</b> , 8, 87414-87421	3.5	3
28	. <i>IEEE Access</i> , <b>2019</b> , 7, 87141-87149	3.5	3
27	. <i>IEEE Access</i> , <b>2020</b> , 8, 169470-169485	3.5	3
26	Design of a Rotary-Linear Motor With Unipolar SPM and Voice Coil Structure. <i>IEEE Access</i> , <b>2020</b> , 8, 150293-150300	3.5	3
25	Two Phase Dual-Stator Axial-Flux PM BLDC Motor With Ironless Rotor Using Only-Pull Drive Technique. <i>IEEE Access</i> , <b>2019</b> , 7, 82144-82153	3.5	2
24	. <i>IEEE Transactions on Magnetics</i> , <b>2018</b> , 54, 1-6	2	2
23	A Magnetic Pole Modulation Method on Surface Permanent Magnet Machines for High Performances With Different Magnetization. <i>IEEE Access</i> , <b>2019</b> , 7, 79839-79849	3.5	2
22	A rotor design of a BLDC motor used for reciprocating compressor considering demagnetization. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2010</b> , 33, 689-695	0.4	2
21	Analytical analysis of the magnetic field and no-load voltage for the double sided axial flux permanent magnet synchronous generator <b>2010</b> ,		2
20	Optimal design of novel concentrated flux IPM type brushless DC motor. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2012</b> , 39, 957-963	0.4	2
19	The analysis of bearing current using common mode equivalent circuit parameters by FEM <b>2005</b> ,		2
18	Space-vector PWM Techniques for a Two-Phase Permanent Magnet Synchronous Motor Considering a Reduction in Switching Losses. <i>Journal of Electrical Engineering and Technology</i> , <b>2015</b> , 10, 905-915	1.4	2
17	Sensitivity Comparison of Open-Circuit Airgap Flux Between Surface-Mounted Permanent Magnet and Spoke-Type Permanent Magnet Machines Considering Manufacturing Tolerances. <i>IEEE Access</i> , <b>2019</b> , 7, 165908-165918	3.5	2
16	Torque ripple reduction in brushless wound rotor synchronous machine by two-phase excitation winding. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2019</b> , 59, 765-773	0.4	2
15	Design of V-Type Consequent-Pole IPM Machine for PM Cost Reduction With Analytical Method. <i>IEEE Access</i> , <b>2021</b> , 1-1	3.5	2
14	Dynamic Characteristic Analysis of Small Sized PM Type Stepping Motor with H Shape Stator Yoke		1
13	Wye-delta winding configuration for brushless operation of a wound field synchronous machine. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2020</b> , 64, 1165-1172	0.4	1
12	Design and analysis of a high-performance dual-rotor PM synchronous reluctance machine with toroidal windings. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2019</b> , 59, 855-864	0.4	1

11	Improvement of the Constant-Power Speed Range of Surface-Permanent Magnet Machine Using Winding Switching. <i>IEEE Access</i> , <b>2021</b> , 9, 32298-32309	3.5	1
10	Design and Analysis of a High-Performance Outer Rotor Brushless DC Motor Using Loading Distribution Method for Range Hood Applications <b>2018</b> ,		1
9	Dual-mode Brushless Wound Rotor Synchronous Machine for High Starting Torque. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	1
8	Design of a Novel Low-Cost Consequent-Pole Permanent Magnet Synchronous Machine. <i>IEEE Access</i> , <b>2020</b> , 8, 194251-194259	3.5	0
7	A Rotary-Linear SPM Voice Coil Motor With PM Flux Bridges for Output Performance Improvement. <i>IEEE Access</i> , <b>2021</b> , 1-1	3.5	0
6	Torque Enhancement Principle of Stator PM Vernier Machine by Consequent Pole Structure. <i>Energies</i> , <b>2022</b> , 15, 2993	3.1	0
5	Design and Performance Evaluation of a Modular Linear Induction Machine for Rotating Electronic Billboard. <i>IEEE Access</i> , <b>2019</b> , 7, 127393-127401	3.5	
4	A three-phase off-line UPS system for transformer coupled loads. <i>IEICE Electronics Express</i> , <b>2017</b> , 14, 20170815-20170815	0.5	
3	Design and analysis of a PM-assisted brushless WRSM for improving torque characteristics. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2020</b> , 64, 1127-1134	0.4	
2	Saliency enhancement and torque ripple reduction of wound field synchronous machine by injecting optimum harmonic in rotor shape. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2020</b> , 64, 447-455	0.4	
1	Design and analysis of a novel variable flux spoke-type motor for washing machines. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2020</b> , 64, 91-101	0.4	