Takehiro Imura

List of Publications by Year
in descending order

		686830	377514
85 papers	2,149 citations	13 h-index	34 g-index
87 all docs	87 docs citations	87 times ranked	1207 citing authors

#	Article	IF	Citations
1	Control of Wireless Power Transfer. Journal of the Institute of Electrical Engineers of Japan, 2021, 141, 750-753.	0.0	0
2	Repeating Coil and Multiple Power Supply (Basic). , 2020, , 293-324.		0
3	Transient Control Based on Transmitter Current Envelope Model for In-motion Wireless Power Transfer. IEEJ Transactions on Industry Applications, 2020, 140, 356-363.	0.1	2
4	Open and Short-Circuit-Type Coils. , 2020, , 189-216.		0
5	Basic Circuit for Magnetic Resonance Coupling (Sâ€"S Type). , 2020, , 93-111.		1
6	Comparison Between Electromagnetic Induction and Magnetic Resonance Coupling. , 2020, , 113-174.		0
7	Feedforward Transient Control for In-Motion Wireless Power Transfer Using Envelope Model. , 2019, , .		3
8	Secondary-side-only Phase-shifting Voltage Stabilization Control with a Single Converter for WPT Systems with Constant Power Load. IEEJ Journal of Industry Applications, 2019, 8, 66-74.	0.9	14
9	Feasibility Study on In-motion Wireless Power Transfer System Before Traffic Lights Section. , 2019, , .		11
10	Charging Infrastructure Design for In-motion WPT Based on Sensorless Vehicle Detection System. , 2019, , .		15
11	Efficiency Maximization in Wireless Power Transfer Systems for Resonance Frequency Mismatch. , 2019, , .		3
12	Resistance Reduction of Capacitor-less and Ferrite-less 85kHz Self-resonant Coil for Dynamic Wireless Power Transfer. IEEJ Transactions on Industry Applications, 2019, 139, 734-742.	0.1	0
13	Power Transfer by Electric Coupling between Rotating Bodies with Axis-symmetrical Long Structures. , 2018, , .		0
14	Comparison of Soft-Starting Methods for In-Motion Charging of Electric Vehicles to Suppress Start-up Current Overshoot in Wireless Power Transfer System. , 2018, , .		8
15	Soft-Start Control Method for In-motion Charging of Electric Vehicles Based on Transient Analysis of Wireless Power Transfer System. , 2018, , .		5
16	Basic Study on Arrangement Design of In-Motion Charging Facility on Urban Roads. , 2018, , .		6
17	Driving Test Evaluation of Sensorless Vehicle Detection Method for In-motion Wireless Power Transfer. , 2018, , .		7
18	Secondary-side-only Control for Smooth Voltage Stabilization in Wireless Power Transfer Systems with Constant Power Load. , 2018, , .		1

#	Article	IF	Citations
19	Basic Study of Solar Battery Powered Wireless Power Transfer System with MPPT Mode and DC Bus Stabilization for Lunar Rover. , 2018, , .		1
20	Maximum Efficiency Operation in Wider Output Power Range of Wireless In-Wheel Motor with Wheel-Side Supercapacitor. , 2018, , .		4
21	Scaling Law of Coupling Coefficient and Coil Size in Wireless Power Transfer Design via Magnetic Coupling. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2018, 202, 21-30.	0.2	13
22	Primary-Side Efficiency Control of Wireless Power Transfer Systems Based on Secondary-Side Power Control with Half Active Rectifier. IEEJ Transactions on Industry Applications, 2018, 138, 22-29.	0.1	4
23	Proposal of Classification and Design Strategies for Wireless Power Transfer Based on Specification of Transmitter-Side and Receiver-Side Voltages and Power Requirements. IEEJ Transactions on Industry Applications, 2018, 138, 330-339.	0.1	7
24	Power-Flow Control Method for Wireless In-Wheel Motor with Supercapacitor. IEEJ Transactions on Industry Applications, 2018, 138, 219-226.	0.1	0
25	Unified Theory of Electromagnetic Induction and Magnetic Resonant Coupling. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2017, 199, 58-80.	0.2	7
26	Novel Transmitting Power Control Method without Signal Communication for Wireless Power Transfer via Magnetic Resonance Coupling. Electrical Engineering in Japan (English Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.2	3
27	Research on Maximizing Power Transfer Efficiency of Wireless Inâ€Wheel Motor by Primary and Loadâ€Side Voltage Control. Electrical Engineering in Japan (English Translation of Denki Gakkai) Tj ETQq1 1 0.784314 rgBT /Overlock 1	0.2	1
28	Relation Between Power Transfer and Magnetic Flux in Magnetic Coupling Circuit Using Resonance. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2017, 200, 45-54.	0.2	1
29	Maximum efficiency control of wireless power transfer systems with Half Active Rectifier based on primary current measurement. , 2017, , .		4
30	Applicability study on wireless power transfer in monitoring for geological disposal. Journal of Nuclear Fuel Cycle and Environment, 2017, 24, 45-52.	0.1	0
31	Secondary-side-only Control for High Efficiency and Desired Power with Two Converters in Wireless Power Transfer Systems. IEEJ Journal of Industry Applications, 2017, 6, 473-481.	0.9	28
32	Simultaneous Estimation of Two Parameters Based on Secondary-Side Information for Wireless Power Transfer via Magnetic Resonance Coupling. IEEJ Transactions on Industry Applications, 2017, 137, 104-111.	0.1	3
33	Study on High Efficiency and High Response of Regeneration for Wireless In-wheel Motor. IEEJ Transactions on Industry Applications, 2017, 137, 36-43.	0.1	1
34	Scaling Law of Coupling Coefficient and Coil Size in Wireless Power Transfer Design via Magnetic Coupling. IEEJ Transactions on Industry Applications, 2017, 137, 326-333.	0.1	4
35	Design Method of Multi-Band Coil using High Order Resonance in Wireless Power Transfer. IEEJ Transactions on Industry Applications, 2017, 137, 526-533.	0.1	0
36	Fundamental Research on Control Method for Power Conversion Circuit of Wireless Inâ€Wheel Motor Using Magnetic Resonance Coupling. Electrical Engineering in Japan (English Translation of Denki) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.2	4

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37	Wireless power transfer for electric vehicle at the kilohertz band. IEEJ Transactions on Electrical and Electronic Engineering, 2016, 11, S91.	0.8	8
38	Efficiency and Magnetic Flux in Magnetic Resonant Coupling. Nihon AEM Gakkaishi, 2016, 24, 317-322.	0.0	1
39	Dynamic wireless power transfer system for electric vehicles to simplify ground facilities - power control and efficiency maximization on the secondary side. , 2016, , .		42
40	Design of multi-frequency coil for capacitor-less wireless power transfer using high order self-resonance of open end coil. , 2016, , .		10
41	Development of Wireless In-Wheel Motor Using Magnetic Resonance Coupling. IEEE Transactions on Power Electronics, 2016, 31, 5270-5278.	5.4	142
42	Research on Maximizing Power Transfer Efficiency of Wireless In-wheel Motor by Primary and Load-Side Voltage Control. IEEJ Transactions on Industry Applications, 2016, 136, 118-125.	0.1	4
43	Real-time Maximum Efficiency Control in Dynamic Wireless Power Transfer System. IEEJ Transactions on Industry Applications, 2016, 136, 425-432.	0.1	13
44	Novel Transmitting Power Control Method without Signal Communication for Wireless Power Transfer via Magnetic Resonance Coupling. IEEJ Transactions on Industry Applications, 2016, 136, 222-231.	0.1	6
45	Relation between Power Transfer and Magnetic Flux in Magnetic Coupling Circuit Using Resonance. IEEJ Transactions on Industry Applications, 2016, 136, 811-818.	0.1	0
46	Maximum efficiency control of wireless power transfer via magnetic resonant coupling considering dynamics of DC-DC converter for moving electric vehicles. , 2015, , .		24
47	Coupling Coefficients Estimation of Wireless Power Transfer System via Magnetic Resonance Coupling Using Information From Either Side of the System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 191-200.	3.7	116
48	Real-time coupling coefficient estimation and maximum efficiency control on dynamic wireless power transfer for electric vehicles. , 2015, , .		91
49	Two-transmitter wireless power transfer with LCL circuit for continuous power in dynamic charging. , 2015, , .		9
50	Basic study of transmitting power control method without signal communication for Wireless In-Wheel Motor via magnetic resonance coupling. , 2015, , .		21
51	Envelope model of load voltage on series-series compensated wireless power transfer via magnetic resonance coupling. , 2015, , .		15
52	Stability analysis of constant power load and load voltage control method for Wireless In-Wheel Motor. , 2015, , .		13
53	Experimental verification of wireless in-wheel motor using magnetic resonance coupling. , 2015, , .		4
54	Wireless charging power control for HESS through receiver side voltage control. , 2015, , .		25

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55	Fundamental Research on Control Method for Power Conversion Circuit of Wireless In-Wheel Motor using Magnetic Resonance Coupling. IEEJ Transactions on Industry Applications, 2015, 135, 182-191.	0.1	9
56	Unified Theory of Electromagnetic Induction and Magnetic Resonant Coupling. IEEJ Transactions on Industry Applications, 2015, 135, 697-710.	0.1	48
57	Current and Future of Wireless Power Transfer via Magnetic Resonant Coupling. Journal of the Institute of Electrical Engineers of Japan, 2015, 135, 620-622.	0.0	1
58	Independent Control of Maximum Transmission Efficiency by the Transmitter Side and Power by the Receiver Side for Wireless Power Transfer. IEEJ Transactions on Industry Applications, 2015, 135, 847-854.	0.1	6
59	Fundamental research of power conversion circuit control for wireless In-Wheel Motor using magnetic resonance coupling. , 2014, , .		14
60	Simultaneous Wireless Power Transfer via Magnetic Resonant Coupling to Multiple Receiving Coils. IEEJ Transactions on Industry Applications, 2014, 134, 625-633.	0.1	7
61	Cross-Coupling Canceling Method for Wireless Power Transfer via Magnetic Resonance Coupling. IEEJ Transactions on Industry Applications, 2014, 134, 564-574.	0.1	11
62	Study on maximize efficiency by secondary side control using DC-DC converter in wireless power transfer via magnetic resonant coupling. , 2013, , .		47
63	Future Transportation Society Realized by Wireless Power Transfer and Electric Vehicle. IEICE Communications Society Magazine, 2013, 7, 19-24.	0.0	0
64	A Partially Driven Array Antenna Backed by a Reflector with a Reduction in the Number of Driven Elements by Up to 67%. IEICE Transactions on Communications, 2013, E96.B, 2883-2890.	0.4	3
65	New characteristics analysis considering transmission distance and load variation in wireless power transfer via magnetic resonant coupling. , 2012, , .		49
66	Novel band-pass filter model for multi-receiver wireless power transfer via magnetic resonance coupling and power division. , 2012, , .		24
67	Impedance matching and power division algorithm considering cross coupling for wireless power transfer via magnetic resonance. , 2012, , .		18
68	Optimization using transmitting circuit of multiple receiving antennas for wireless power transfer via magnetic resonance coupling. , 2011, , .		15
69	Basic experimental study on effect of bentonite to efficiency of wireless power transfer using magnetic resonance coupling method. , 2011, , .		4
70	Basic study on reduction of reflected power using DC/DC converters in wireless power transfer system via magnetic resonant coupling. , 2011, , .		73
71	Maximizing Air Gap and Efficiency of Magnetic Resonant Coupling for Wireless Power Transfer Using Equivalent Circuit and Neumann Formula. IEEE Transactions on Industrial Electronics, 2011, 58, 4746-4752.	5.2	493
72	Electric vehicle automatic stop using wireless power transfer antennas. , 2011, , .		4

#	ARTICLE	IF	CITATIONS
73	Equivalent circuit for repeater antenna for wireless power transfer via magnetic resonant coupling considering signed coupling. , 2011, , .		25
74	Equivalent Circuits of Repeater Antennas for Wireless Power Transfer via Magnetic Resonant Coupling. IEEJ Transactions on Industry Applications, 2011, 131, 1373-1382.	0.1	10
75	Wireless Power Transfer System via Magnetic Resonant Coupling at Fixed Resonance Frequency-Power Transfer System Based on Impedance Matching-. World Electric Vehicle Journal, 2010, 4, 744-753.	1.6	31
76	Basic study of improving efficiency of wireless power transfer via magnetic resonance coupling based on impedance matching. , 2010, , .		53
77	Study on maximum air-gap and efficiency of Magnetic Resonant Coupling for Wireless Power Transfer using Equivalent Circuit. , 2010, , .		12
78	Determination of Limits on Air Gap and Efficiency for Wireless Power Transfer via Magnetic Resonant Coupling by Using Equivalent Circuit. IEEJ Transactions on Industry Applications, 2010, 130, 1169-1174.	0.1	18
79	Wireless Power Transfer during Displacement Using Electromagnetic Coupling in Resonance -Magnetic-versus Electric-Type Antennas-. IEEJ Transactions on Industry Applications, 2010, 130, 76-83.	0.1	35
80	Study of Magnetic and Electric Coupling for Contactless Power Transfer Using Equivalent Circuits -Wireless Power Transfer via Electromagnetic Coupling at Resonance-. IEEJ Transactions on Industry Applications, 2010, 130, 84-92.	0.1	45
81	ãƒ¯ã‚¤ãƒ¤ãƒ¬ã‚¹çµ¦é›»æŠ€è¡“ï¼žé›»ç£ç•Œå…±é³´ã®åŸºç¤Žã¨æ¦‚è¦ï¼ž. Journal of Japan Institute of Electronics Packaging, 2010, 13, 422-42	0.0	1
82	Wireless Power Transfer Using Electromagnetic Resonant Coupling. Journal of the Institute of Electrical Engineers of Japan, 2009, 129, 414-417.	0.0	44
83	Flexibility of Contactless Power Transfer using Magnetic Resonance Coupling to Air Gap and Misalignment for EV. World Electric Vehicle Journal, 2009, 3, 332-341.	1.6	26
84	Basic experimental study on helical antennas of wireless power transfer for Electric Vehicles by using magnetic resonant couplings. , 2009, , .		253
85	Study on open and short end helical antennas with capacitor in series of wireless power transfer using magnetic resonant couplings. , 2009, , .		65