

Takehiro Imura

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9179846/publications.pdf>

Version: 2024-02-01

85
papers

2,149
citations

686830

13
h-index

377514

34
g-index

87
all docs

87
docs citations

87
times ranked

1207
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Basic experimental study on helical antennas of wireless power transfer for Electric Vehicles by using magnetic resonant couplings. , 2009, , .		253
3	Development of Wireless In-Wheel Motor Using Magnetic Resonance Coupling. IEEE Transactions on Power Electronics, 2016, 31, 5270-5278.	5.4	142
4	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
5	Real-time coupling coefficient estimation and maximum efficiency control on dynamic wireless power transfer for electric vehicles. , 2015, , .		91
6	Basic study on reduction of reflected power using DC/DC converters in wireless power transfer system via magnetic resonant coupling. , 2011, , .		73
7	Study on open and short end helical antennas with capacitor in series of wireless power transfer using magnetic resonant couplings. , 2009, , .		65
8	Basic study of improving efficiency of wireless power transfer via magnetic resonance coupling based on impedance matching. , 2010, , .		53
9	New characteristics analysis considering transmission distance and load variation in wireless power transfer via magnetic resonant coupling. , 2012, , .		49
10	Unified Theory of Electromagnetic Induction and Magnetic Resonant Coupling. IEEJ Transactions on Industry Applications, 2015, 135, 697-710.	0.1	48
11	Study on maximize efficiency by secondary side control using DC-DC converter in wireless power transfer via magnetic resonant coupling. , 2013, , .		47
12	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
13	Wireless Power Transfer Using Electromagnetic Resonant Coupling. Journal of the Institute of Electrical Engineers of Japan, 2009, 129, 414-417.	0.0	44
14	Dynamic wireless power transfer system for electric vehicles to simplify ground facilities - power control and efficiency maximization on the secondary side. , 2016, , .		42
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Equivalent circuit for repeater antenna for wireless power transfer via magnetic resonant coupling considering signed coupling. , 2011, , .		25
20	Wireless charging power control for HESS through receiver side voltage control. , 2015, , .		25
21	Novel band-pass filter model for multi-receiver wireless power transfer via magnetic resonance coupling and power division. , 2012, , .		24
22	Maximum efficiency control of wireless power transfer via magnetic resonant coupling considering dynamics of DC-DC converter for moving electric vehicles. , 2015, , .		24
23	Basic study of transmitting power control method without signal communication for Wireless In-Wheel Motor via magnetic resonance coupling. , 2015, , .		21
24	Impedance matching and power division algorithm considering cross coupling for wireless power transfer via magnetic resonance. , 2012, , .		18
25	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
26	Optimization using transmitting circuit of multiple receiving antennas for wireless power transfer via magnetic resonance coupling. , 2011, , .		15
27	Envelope model of load voltage on series-series compensated wireless power transfer via magnetic resonance coupling. , 2015, , .		15
28	Charging Infrastructure Design for In-motion WPT Based on Sensorless Vehicle Detection System. , 2019, , .		15
29	Fundamental research of power conversion circuit control for wireless In-Wheel Motor using magnetic resonance coupling. , 2014, , .		14
30	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
31	Stability analysis of constant power load and load voltage control method for Wireless In-Wheel Motor. , 2015, , .		13
32	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
33	Real-time Maximum Efficiency Control in Dynamic Wireless Power Transfer System. IEEJ Transactions on Industry Applications, 2016, 136, 425-432.	0.1	13
34	Study on maximum air-gap and efficiency of Magnetic Resonant Coupling for Wireless Power Transfer using Equivalent Circuit. , 2010, , .		12
35	Feasibility Study on In-motion Wireless Power Transfer System Before Traffic Lights Section. , 2019, , .		11
36	Cross-Coupling Canceling Method for Wireless Power Transfer via Magnetic Resonance Coupling. IEEJ Transactions on Industry Applications, 2014, 134, 564-574.	0.1	11

#	ARTICLE	IF	CITATIONS
37	Design of multi-frequency coil for capacitor-less wireless power transfer using high order self-resonance of open end coil. , 2016, , .		10
38	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
39	Two-transmitter wireless power transfer with LCL circuit for continuous power in dynamic charging. , 2015, , .		9
40	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
41	Wireless power transfer for electric vehicle at the kilohertz band. IEEJ Transactions on Electrical and Electronic Engineering, 2016, 11, S91.	0.8	8
42	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
43	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
44	Driving Test Evaluation of Sensorless Vehicle Detection Method for In-motion Wireless Power Transfer. , 2018, , .		7
45	Simultaneous Wireless Power Transfer via Magnetic Resonant Coupling to Multiple Receiving Coils. IEEJ Transactions on Industry Applications, 2014, 134, 625-633.	0.1	7
46	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
47	Basic Study on Arrangement Design of In-Motion Charging Facility on Urban Roads. , 2018, , .		6
48	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
49	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
50	Soft-Start Control Method for In-motion Charging of Electric Vehicles Based on Transient Analysis of Wireless Power Transfer System. , 2018, , .		5
51	Basic experimental study on effect of bentonite to efficiency of wireless power transfer using magnetic resonance coupling method. , 2011, , .		4
52	Electric vehicle automatic stop using wireless power transfer antennas. , 2011, , .		4
53	Experimental verification of wireless in-wheel motor using magnetic resonance coupling. , 2015, , .		4
54	Fundamental Research on Control Method for Power Conversion Circuit of Wireless In-Wheel Motor Using Magnetic Resonance Coupling. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2017, 199, 58-80.	0.1	4

#	ARTICLE	IF	CITATIONS
55	Maximum efficiency control of wireless power transfer systems with Half Active Rectifier based on primary current measurement. , 2017, , .		4
56	Maximum Efficiency Operation in Wider Output Power Range of Wireless In-Wheel Motor with Wheel-Side Supercapacitor. , 2018, , .		4
57	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
58	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
59	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
60	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		4
61	Feedforward Transient Control for In-Motion Wireless Power Transfer Using Envelope Model. , 2019, , .		3
62	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
63	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
64	Efficiency Maximization in Wireless Power Transfer Systems for Resonance Frequency Mismatch. , 2019, , .		3
65	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
66	Efficiency and Magnetic Flux in Magnetic Resonant Coupling. Nihon AEM Gakkaishi, 2016, 24, 317-322.	0.0	1
67	Research on Maximizing Power Transfer Efficiency of Wireless In-Wheel Motor by Primary and Load-Side Voltage Control. Electrical Engineering in Japan (English Translation of Denki Gakkai) Tj ETQq1 1 0.784314 rgBT /Overlock		1
68	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
69	Secondary-side-only Control for Smooth Voltage Stabilization in Wireless Power Transfer Systems with Constant Power Load. , 2018, , .		1
70	Basic Study of Solar Battery Powered Wireless Power Transfer System with MPPT Mode and DC Bus Stabilization for Lunar Rover. , 2018, , .		1
71	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
72	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

#	ARTICLE	IF	CITATIONS
73	Basic Circuit for Magnetic Resonance Coupling (S-Type). , 2020, , 93-111.		1
74	Future Transportation Society Realized by Wireless Power Transfer and Electric Vehicle. IEICE Communications Society Magazine, 2013, 7, 19-24.	0.0	0
75	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
76	Power Transfer by Electric Coupling between Rotating Bodies with Axis-symmetrical Long Structures. , 2018, , .		0
77	Journal of Japan Institute of Electronics Packaging, 2010, 13, 422-424.		0
78	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
79	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
80	Power-Flow Control Method for Wireless In-Wheel Motor with Supercapacitor. IEEJ Transactions on Industry Applications, 2018, 138, 219-226.	0.1	0
81	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
82	Repeating Coil and Multiple Power Supply (Basic). , 2020, , 293-324.		0
83	Open and Short-Circuit-Type Coils. , 2020, , 189-216.		0
84	Comparison Between Electromagnetic Induction and Magnetic Resonance Coupling. , 2020, , 113-174.		0
85	Control of Wireless Power Transfer. Journal of the Institute of Electrical Engineers of Japan, 2021, 141, 750-753.	0.0	0