

Kazuhiro Muramatsu

List of Publications by Year in descending order

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95
papers

1,351
citations

471509

17
h-index

395702

33
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100
all docs

100
docs citations

100
times ranked

3999
citing authors

#	ARTICLE	IF	CITATIONS
1	De novo mutations in the autophagy gene WDR45 cause static encephalopathy of childhood with neurodegeneration in adulthood. <i>Nature Genetics</i> , 2013, 45, 445-449.	21.4	396
2	Biallelic mutations in the 3' exonuclease TOE1 cause pontocerebellar hypoplasia and uncover a role in snRNA processing. <i>Nature Genetics</i> , 2017, 49, 457-464.	21.4	66
3	Low natural killer activity and central nervous system disease as a high-risk prognostic indicator in young patients with hemophagocytic lymphohistiocytosis. <i>Cancer</i> , 2002, 94, 3023-3031.	4.1	50
4	Molecular genetic analysis of 30 families with Joubert syndrome. <i>Clinical Genetics</i> , 2016, 90, 526-535.	2.0	45
5	Design of a Reactor Driven by Inverter Power Supply to Reduce the Noise Considering Electromagnetism and Magnetostriction. <i>IEEE Transactions on Magnetics</i> , 2010, 46, 2179-2182.	2.1	43
6	Noise Reduction of a Three-Phase Reactor by Optimization of Gaps Between Cores Considering Electromagnetism and Magnetostriction. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 2772-2775.	2.1	40
7	Vibration Analysis of a Reactor Driven by an Inverter Power Supply Considering Electromagnetism and Magnetostriction. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 4789-4792.	2.1	35
8	Loss Calculation of Reactor Connected to Inverter Power Supply Taking Account of Eddy Currents in Laminated Steel Core. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 1044-1047.	2.1	31
9	Coupled 2-D and 3-D Eddy Current Analyses for Evaluating Eddy Current Loss of a Permanent Magnet in Surface PM Motors. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 3100-3103.	2.1	31
10	Method for Evaluating the Eddy Current Loss of a Permanent Magnet in a PM Motor Driven by an Inverter Power Supply Using Coupled 2-D and 3-D Finite Element Analyses. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 4574-4577.	2.1	26
11	A Novel Hybrid Saturated Core Fault Current Limiter Topology Considering Permanent Magnet Stability and Performance. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-4.	2.1	26
12	Uncovering genes required for neuronal morphology by morphology-based gene trap screening with a revertible retrovirus vector. <i>FASEB Journal</i> , 2012, 26, 4662-4674.	0.5	22
13	Effects of Stress and Magnetostriction on Loss and Vibration Characteristics of Motor. <i>IEEE Transactions on Magnetics</i> , 2016, 52, 1-4.	2.1	22
14	Neuron-specific recombination by Cre recombinase inserted into the murine tau locus. <i>Biochemical and Biophysical Research Communications</i> , 2008, 370, 419-423.	2.1	20
15	Investigation on Simple Numeric Modeling of Anomalous Eddy Current Loss in Steel Plate Using Modified Conductivity. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 635-638.	2.1	20
16	Glucocorticoids Inhibit MUC5AC Production Induced by Transforming Growth Factor- β in Human Respiratory Cells. <i>Allergy International</i> , 2012, 61, 451-459.	3.3	19
17	A novel concept of fault current limiter based on saturable core in high voltage DC transmission system. <i>AIP Advances</i> , 2018, 8, .	1.3	17
18	Performance Investigation on a Novel High Inductance Changing Ratio MMC-Based Direct Current System Saturated Core FCL. <i>IEEE Transactions on Power Delivery</i> , 2020, 35, 1502-1514.	4.3	17

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19	Gene Therapy in a Mouse Model of Niemann-Pick Disease Type C1. <i>Human Gene Therapy</i> , 2021, 32, 589-598.	2.7	17
20	Performance and Optimization Study of a Novel Compact Permanent-Magnet-Biased Fault Current Limiter. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-4.	2.1	16
21	Proposal of Maxwell Stress Tensor for Local Force Calculation in Magnetic Body. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-4.	2.1	16
22	Saturated-core fault current limiters for AC power systems: Towards reliable, economical and better performance application. <i>High Voltage</i> , 2020, 5, 416-424.	4.7	15
23	Efficacy and tolerability of levetiracetam for pediatric refractory epilepsy. <i>Brain and Development</i> , 2017, 39, 231-235.	1.1	14
24	Topology and Performance Optimization of a Novel Hybrid Material-Based Direct Current Fault Current Limiter. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-5.	2.1	14
25	Differential Regulation of Eotaxin Expression by Dexamethasone in Normal Human Lung Fibroblasts. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2008, 38, 707-714.	2.9	13
26	The Effect of Laminated Structure on Coupled Magnetic Field and Mechanical Analyses of Iron Core and Its Homogenization Technique. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 1358-1361.	2.1	13
27	Loss Reduction of Reactor With Grain-Oriented Silicon Steel Plates. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 1973-1976.	2.1	13
28	Magnetic Field Analyses of Architectural Components Using Homogenization Technique. <i>IEEE Transactions on Magnetics</i> , 2010, 46, 3313-3316.	2.1	12
29	Modeling of Magnetic Characteristics of Soft Magnetic Composite Using Magnetic Field Analysis. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-4.	2.1	12
30	A Novel Six-Leg Three-Phase Fault Current Limiter. <i>IEEE Transactions on Power Delivery</i> , 2020, 35, 1707-1715.	4.3	12
31	Neurodevelopmental outcome and respiratory management of congenital central hypoventilation syndrome: a retrospective study. <i>BMC Pediatrics</i> , 2020, 20, 342.	1.7	12
32	Design and Construction Method of an Open-Type Magnetically Shielded Room for MRI Composed of Magnetic Square Cylinders. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 4636-4639.	2.1	11
33	Late Delirious Behavior With 2009 H1N1 Influenza: Mild Autoimmune-Mediated Encephalitis?. <i>Pediatrics</i> , 2012, 129, e1068-e1071.	2.1	11
34	<i>NDUFAF3</i> variants that disrupt mitochondrial complex I assembly may associate with cavitating leukoencephalopathy. <i>Clinical Genetics</i> , 2018, 93, 1103-1106.	2.0	11
35	Open-Type Magnetically Shielded Room Combined With Square Cylinders Made of Magnetic and Conductive Materials for MRIs. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 4183-4186.	2.1	10
36	Evaluation of Stray Load Losses in Cores and Secondary Conductors of Induction Motor Using Magnetic Field Analysis. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 1965-1968.	2.1	9

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37	A Coupled Method for Evaluating Eddy Current Loss of NdFeB Permanent Magnets in a Saturated Core Fault Current Limiter. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	9
38	Performance investigation on DCSFCL considering different magnetic materials. AIP Advances, 2018, 8, .	1.3	9
39	Valine metabolites analysis in ECHS1 deficiency. Molecular Genetics and Metabolism Reports, 2021, 29, 100809.	1.1	9
40	Homogenization Technique of Laminated Core Taking Account of Eddy Currents Under Rotational Flux Without Edge Effect. IEEE Transactions on Magnetics, 2013, 49, 1969-1972.	2.1	8
41	Coupled Magneto-Mechanical Analysis in Isotropic Materials Under Multiaxial Stress. IEEE Transactions on Magnetics, 2014, 50, 285-288.	2.1	8
42	Variant in the neuronal vesicular SNARE VAMP2 (synaptobrevin-2): First report in Japan. Brain and Development, 2020, 42, 529-533.	1.1	8
43	Neuron-specific and inducible recombination by Cre recombinase in the mouse. NeuroReport, 2008, 19, 621-624.	1.2	7
44	Reduction of Artifact of Metallic Implant in Magnetic Resonance Imaging by Coating of Diamagnetic Material. IEEE Transactions on Magnetics, 2009, 45, 4837-4840.	2.1	7
45	Method for Evaluating Shielding Factor of Double Layered Magnetically-Shielded Rooms for Uniform Magnetic Field Using Exciting Coils Placed on One Side. IEEE Transactions on Magnetics, 2010, 46, 2357-2360.	2.1	7
46	Magnetic Field Analysis With Nonconforming Voxel Modeling Using the Nested Geometric Multigrid Method. IEEE Transactions on Magnetics, 2012, 48, 595-598.	2.1	7
47	Rapid progression of a walking disability in a 5-year-old boy with a CLN6 mutation. Brain and Development, 2019, 41, 726-730.	1.1	7
48	A case of congenital fiber-type disproportion syndrome presenting dilated cardiomyopathy with <i>ACTA1</i> mutation. Molecular Genetics & Genomic Medicine, 0, , .	1.2	7
49	Rotigotine suppresses sleep-related muscle activity augmented by injection of dialysis patients' sera in a mouse model of restless legs syndrome. Scientific Reports, 2019, 9, 16344.	3.3	6
50	Simple Numerical Calculation Method of Rotational Iron Loss in Silicon Steel Sheets. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	6
51	A Novel Three-Phase Compact Saturated-Core Fault Current Limiter. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	5
52	Demyelinating neuropathy in a 6-year-old girl with autism spectrum disorder. Pediatrics International, 2017, 59, 951-954.	0.5	5
53	Development and Analysis of Bridge-Type Saturated-Core Fault Current Limiter. IEEE Transactions on Magnetics, 2017, 53, 1-5.	2.1	5
54	Brainstem infarction associated with HHV-6 infection in an infant. Brain and Development, 2018, 40, 242-246.	1.1	5

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55	Flux and Loss Distribution in Iron Cores With Hybrid T-Joint. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	5
56	Numerical modelling of magnetic characteristics of ferrite core taking account of both eddy current and displacement current. Heliyon, 2019, 5, e02229.	3.2	5
57	MELAS syndrome with m.4450 Gâ€”A mutation in mitochondrial tRNAMet gene. Brain and Development, 2019, 41, 465-469.	1.1	5
58	High-amplitude fast activity in EEG: An early diagnostic marker in children with beta-propeller protein-associated neurodegeneration (BPAN). Clinical Neurophysiology, 2020, 131, 2100-2104.	1.5	5
59	Reduction of artifact of metallic implant in magnetic resonance imaging by combining paramagnetic and diamagnetic materials. Journal of Applied Physics, 2010, 107, 09B323.	2.5	4
60	Modeling of Anomalous Eddy Current Losses Due to Movement of Domain Walls in Particles of a Soft Magnetic Composite. IEEE Transactions on Magnetics, 2020, 56, 1-4.	2.1	4
61	Praxisâ€”induced reflex seizures in two Japanese cases with ring chromosome 20 syndrome. Epileptic Disorders, 2020, 22, 214-218.	1.3	4
62	Loss and noise reduction of saturable magnetically controlled reactor by improving structure of magnetic valves. , 2016, , .		3
63	Numerical Modeling of Iron Loss Considering Laminated Structure and Excess Loss. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	3
64	Proposal of Core Structures for Iron Loss and Noise Reduction of Three-Phase Reactor With Anisotropic Iron Core. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	3
65	Betaâ€”propeller proteinâ€”associated neurodegeneration presenting Rettâ€”like features: A case report and literature review. American Journal of Medical Genetics, Part A, 2021, 185, 579-583.	1.2	3
66	Investigation on a modified hybrid compact saturated-core fault current limiter based on permanent magnets. , 2016, , .		2
67	Modeling of Leakage Magnetic Field of Electric Machines Using Blocks With Magnetizations for Design of Magnetically Shielded Room. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	2
68	Fast Nonlinear Magnetic Field Analysis of Inverter-Driven Machines by Applying POD on Linearized Coefficient Matrices. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	2
69	Design of a Three-Phase Reactor Composed of Grain-Oriented Steel Plates for Iron Loss Reduction. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	2
70	Coupled autotransformer and magneticâ€”control softâ€”start method for superâ€”largeâ€”capacity highâ€”voltage motors. High Voltage, 2020, 5, 38-45.	4.7	2
71	Gallbladder cancer with ascites in a child with metachromatic leukodystrophy. Brain and Development, 2021, 43, 140-143.	1.1	2
72	Forced normalization of Lennox-Gastaut syndrome using lacosamide: A case report. Brain and Development, 2021, 43, 963-966.	1.1	2

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73	Recurrent pneumonia in three patients with MECP2 duplication syndrome with aspiration as the possible cause. <i>Brain and Development</i> , 2022, 44, 486-491.	1.1	2
74	Effect of magnetic-valve distribution on reactance of magnetic controlled reactor. , 2016, , .		1
75	A coupled method for evaluating eddy current loss of NdFeB permanent magnets in a saturated core fault current limiter. , 2016, , .		1
76	Optimal gear capacity design of 380V/30kVar superconducting controllable reactor based on ANSYS-immune algorithm. , 2016, , .		1
77	Transient characteristics analysis of a 380V/30kVar superconducting controlled reactor. , 2016, , .		1
78	Sudden unexpected death caused by infantile acute lymphoblastic leukaemia. <i>Oxford Medical Case Reports</i> , 2021, 2021, omab073.	0.4	1
79	The effect of laminated structure on coupled magnetic field and mechanical analyses of iron core and its homogenization technique. , 2010, , .		0
80	Effectiveness of nonconforming mesh in magnetic field analysis with voxel modelling. , 2010, , .		0
81	Investigation on power and loss densities of scaled-down laminated cores. , 2015, , .		0
82	A novel topology of hybrid saturated core fault current limiter considering permanent magnets stability performance. , 2016, , .		0
83	Simple L and T shaped butt joints composed of anisotropic and isotropic block cores in three-phase reactor. , 2016, , .		0
84	Comparison of hysteresis modeling methods using play model and free energy model. , 2016, , .		0
85	Numerical Modeling of Excess Loss in SiFe Sheet Considering Pinning Effect. <i>IEEE Transactions on Applied Superconductivity</i> , 2016, 26, 1-4.	1.7	0
86	Modeling of leakage magnetic field of electric machines using blocks with magnetizations for design of magnetically shielded room. , 2016, , .		0
87	Micromagnetics simulation of ferromagnetic materials using large cells. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2017, 55, 15-21.	0.6	0
88	Age at onset and response to antiepileptic drugs in patients with various subtypes of idiopathic generalized epilepsy - preliminary investigation for the prevention of epilepsy. <i>Epilepsy and Seizure</i> , 2018, 10, 95-106.	0.2	0
89	Iron Loss Reduction of Three-phase Reactor Considering Anisotropic Magnetic Characteristics. , 2018, , .		0
90	A fact-finding survey of the recommendation on sedation during physiological examinations such as electroencephalogram in Japan. <i>Brain and Development</i> , 2021, 43, 208-213.	1.1	0

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91	First anaphylaxis case from a deodorant spray including lysozyme chloride. <i>Pediatrics International</i> , 2021, 63, 469-470.	0.5	0
92	Diffuse Cortical Dysplasia in the Donor of Twin-to-Twin Transfusion Syndrome Following Fetoscopic Laser Photocoagulation: A Case Report. <i>Journal of Fetal Medicine</i> , 2021, 8, 151.	0.1	0
93	Retrospective Study of the Efficacy and Side Effects of Lacosamide in Pediatrics. <i>Journal of the Japan Epilepsy Society</i> , 2020, 37, 810-818.	0.2	0
94	Modeling of Magnetic Anisotropy Due to Compression Molding of Soft Magnetic Composite for Inductance Calculation. <i>IEEE Transactions on Magnetics</i> , 2022, 58, 1-5.	2.1	0
95	An Adolescent Patient with Sick Sinus Syndrome Complicated by Hypothyroidism Carrying an<i>SCN5A</i> Variant. <i>International Heart Journal</i> , 2022, 63, 627-632.	1.0	0