Takahiro Sato

List of Publications by Year
in descending order

25 papers	358 citations	933447 10 h-index	839539 18 g-index
25 all docs	25 docs citations	25 times ranked	230 citing authors

#	Article	IF	Citations
1	Multimaterial Topology Optimization of Electric Machines Based on Normalized Gaussian Network. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	101
2	Topology Optimization of Synchronous Reluctance Motor Using Normalized Gaussian Network. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	48
3	Topology Optimization Method Based on On–Off Method and Level Set Approach. IEEE Transactions on Magnetics, 2014, 50, 617-620.	2.1	47
4	Coupled Analysis of Electromagnetic Vibration Energy Harvester With Nonlinear Oscillation. IEEE Transactions on Magnetics, 2014, 50, 313-316.	2.1	34
5	Fast Finite-Element Analysis of Motors Using Block Model Order Reduction. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	25
6	Loss Computation of Soft Magnetic Composite Inductors Based on Interpolated Scalar Magnetic Property. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	19
7	A chaotic vibration energy harvester using magnetic material. Smart Materials and Structures, 2015, 24, 025033.	3.5	19
8	A Data-Driven Automatic Design Method for Electric Machines Based on Reinforcement Learning and Evolutionary Optimization. IEEE Access, 2021, 9, 71284-71294.	4.2	13
9	Shape Optimization of Rotor in Interior Permanent Magnet Motor Based on Topology OptimizationMethod Using Normalized Gaussian Network. IEEJ Transactions on Industry Applications, 2015, 135, 291-298.	0.2	13
10	A modified immune algorithm with spatial filtering for multiobjective topology optimisation of electromagnetic devices. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2014, 33, 821-833.	0.9	12
11	A New Wideband Electromagnetic Vibration Energy Harvester with Chaotic Oscillation. Journal of Physics: Conference Series, 2013, 476, 012129.	0.4	7
12	Model order reduction for moving objects: fast simulation of vibration energy harvesters. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2015, 34, 1623-1636.	0.9	5
13	A Topology Optimization of Hydroelectric Generator Using Covariance Matrix Adaptation Evolution Strategy. , 2020, , .		4
14	A topology optimization method for electric machines and devices through submodular maximization. Electronics and Communications in Japan, 2019, 102, 3-11.	0.5	3
15	A Bistable Vibration Energy Harvester with Closed Magnetic Circuit. Journal of Physics: Conference Series, 2014, 557, 012081.	0.4	2
16	Transient Characteristic Analysis of Turbine Generator Based on Separated Partial Finite Element Model. IEEE Transactions on Magnetics, 2021, 57, 1-8.	2.1	2
17	Accuracy evaluation of three-dimensional FE analysis based on nonconforming voxel element. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2013, 33, 181-190.	0.9	1
18	Stochastic topology optimization based on level-set method. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2014, 33, 1904-1919.	0.9	1

#	Article	IF	Citations
19	Electromagnetic Vibration Energy Harvester: Wideband Generation via Nonlinear Oscillation. Nihon AEM Gakkaishi, 2014, 22, 374-379.	0.1	1
20	Electromagnetic Field Analysis in the End Region of a Large Rotating Machine with Nonconforming Mesh Connection. , 2020, , .		1
21	Three dimensional optimization using voxel-based finite element method with homogenization. International Journal of Applied Electromagnetics and Mechanics, 2012, 39, 761-768.	0.6	0
22	Electromagnetic Field Analysis of the End Region of a Large Rotating Machine using Nonconforming Mesh Connection. IEEJ Journal of Industry Applications, 2021, , .	1.1	0
23	708 Analysis Using Nonconforming Voxel Finite Element Method and Its Applications. The Proceedings of the Computational Mechanics Conference, 2012, 2012.25, 328-329.	0.0	0
24	Coupled Analysis of Vibration Energy Harvester With Chaotic Oscillation Using Model Reduction. The Proceedings of the Computational Mechanics Conference, 2014, 2014.27, 110-111.	0.0	0
25	A Topology Optimization Method for Electric Machines and Devices through Submodular Maximization. IEEJ Transactions on Fundamentals and Materials, 2019, 139, 181-187.	0.2	0