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	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
2	Transient Characteristic Analysis of Turbine Generator Based on Separated Partial Finite Element Model. IEEE Transactions on Magnetics, 2021, 57, 1-8.	2.1	2
3	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
4	Electromagnetic Field Analysis in the End Region of a Large Rotating Machine with Nonconforming Mesh Connection. , 2020, , .		1
5	A Topology Optimization of Hydroelectric Generator Using Covariance Matrix Adaptation Evolution Strategy. , 2020, , .		4
6	A topology optimization method for electric machines and devices through submodular maximization. Electronics and Communications in Japan, 2019, 102, 3-11.	0.5	3
7	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
8	Fast Finite-Element Analysis of Motors Using Block Model Order Reduction. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	25
9	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
10	Multimaterial Topology Optimization of Electric Machines Based on Normalized Gaussian Network. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	101
11	Topology Optimization of Synchronous Reluctance Motor Using Normalized Gaussian Network. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	48
12	Loss Computation of Soft Magnetic Composite Inductors Based on Interpolated Scalar Magnetic Property. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	19
13	A chaotic vibration energy harvester using magnetic material. Smart Materials and Structures, 2015, 24, 025033.	3.5	19
14	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
15	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
16	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
17	Coupled Analysis of Electromagnetic Vibration Energy Harvester With Nonlinear Oscillation. IEEE Transactions on Magnetics, 2014, 50, 313-316.	2.1	34
18	Topology Optimization Method Based on On–Off Method and Level Set Approach. IEEE Transactions on Magnetics, 2014, 50, 617-620.	2.1	47

#	Article	IF	Citations
19	A Bistable Vibration Energy Harvester with Closed Magnetic Circuit. Journal of Physics: Conference Series, 2014, 557, 012081.	0.4	2
20	Electromagnetic Vibration Energy Harvester: Wideband Generation via Nonlinear Oscillation. Nihon AEM Gakkaishi, 2014, 22, 374-379.	0.1	1
21	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
22	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
23	A New Wideband Electromagnetic Vibration Energy Harvester with Chaotic Oscillation. Journal of Physics: Conference Series, 2013, 476, 012129.	0.4	7
24	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
25	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