David Guirguis

List of Publications by Year
in descending order

11 papers	252 citations	1478505 6 h-index	1720034 7 g-index
12 all docs	12 docs citations	12 times ranked	243 citing authors

#	Article	IF	Citations
1	Toward efficient optimization of wind farm layouts: Utilizing exact gradient information. Applied Energy, 2016, 179, 110-123.	10.1	69
2	Multi-objective topology optimization of multi-component continuum structures via a Kriging-interpolated level set approach. Structural and Multidisciplinary Optimization, 2015, 51, 733-748.	3.5	45
3	Gradient-based multidisciplinary design of wind farms with continuous-variable formulations. Applied Energy, 2017, 197, 279-291.	10.1	35
4	A derivative-free level-set method for topology optimization. Finite Elements in Analysis and Design, 2016, 120, 41-56.	3.2	28
5	High-resolution non-gradient topology optimization. Journal of Computational Physics, 2018, 372, 107-125.	3.8	22
6	Evolutionary Black-Box Topology Optimization: Challenges and Promises. IEEE Transactions on Evolutionary Computation, 2020, 24, 613-633.	10.0	20
7	Thermal and electrical co-design of a modular high-density single-phase inverter using wide-bandgap devices. , 2016, , .		9
8	An evolutionary multi-objective topology optimization framework for welded structures. , 2016, , .		8
9	Image Matching Assessment of Attainable Topology via Kriging-Interpolated Level-Sets. , 2014, , .		6
10	Thermal Management Within Multi-Disciplinary System Design of a Rubikâ€™s-Cube-sized 2kW Power Inverter. , 2018, , .		4
11	Efficient Wind Turbine Micrositing in Large-Scale Wind Farms. , 2016, , .		3