Ihab A Sraj

List of Publications by Year
in descending order

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		759233	752698
20	530	12	20
papers	citations	h-index	g-index

20	20	20	526
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A coupled finite volume solver for the solution of incompressible flows on unstructured grids. Journal of Computational Physics, 2009, 228, 180-201.	3.8	111
2	Global sensitivity analysis in an ocean general circulation model: a sparse spectral projection approach. Computational Geosciences, 2012, 16, 757-778.	2.4	58
3	Cell deformation cytometry using diode-bar optical stretchers. Journal of Biomedical Optics, 2010, 15, 1.	2.6	52
4	Uncertainty quantification and inference of Manningâ€™s friction coefficients using DART buoy data during the TÅhoku tsunami. Ocean Modelling, 2014, 83, 82-97.	2.4	42
5	A Coupled Incompressible Flow Solver on Structured Grids. Numerical Heat Transfer, Part B: Fundamentals, 2007, 52, 353-371.	0.9	39
6	A priori testing of sparse adaptive polynomial chaos expansions using an ocean general circulation model database. Computational Geosciences, 2013, 17, 899-911.	2.4	35
7	Bayesian Inference of Drag Parameters Using AXBT Data from Typhoon Fanapi. Monthly Weather Review, 2013, 141, 2347-2367.	1.4	28
8	Dynamic ray tracing for modeling optical cell manipulation. Optics Express, 2010, 18, 16702.	3.4	27
9	Coordinate transformation and Polynomial Chaos for the Bayesian inference of a Gaussian process with parametrized prior covariance function. Computer Methods in Applied Mechanics and Engineering, 2016, 298, 205-228.	6.6	26
10	Numerical simulation of shock initiation of Ni/Al multilayered composites. Journal of Applied Physics, 2014, 115, .	2.5	17
11	Multi-scale simulation of L-selectinâ€“PSGL-1-dependent homotypic leukocyte binding and rupture. Biomechanics and Modeling in Mechanobiology, 2010, 9, 613-627.	2.8	16
12	Drag Parameter Estimation Using Gradients and Hessian from a Polynomial Chaos Model Surrogate. Monthly Weather Review, 2014, 142, 933-941.	1.4	16
13	Self-Propagating Reactive Fronts in Compacts of Multilayered Particles. Journal of Nanomaterials, 2013, 2013, 1-11.	2.7	13
14	Erythrocyte deformation in high-throughput optical stretchers. Physical Review E, 2012, 85, 041923.	2.1	11
15	Polynomial Chaosâ€“Based Bayesian Inference of K-Profile Parameterization in a General Circulation Model of the Tropical Pacific. Monthly Weather Review, 2016, 144, 4621-4640.	1.4	11
16	Linear diode laser bar optical stretchers for cell deformation. Biomedical Optics Express, 2010, 1, 482.	2.9	10
17	Assessing an ensemble Kalman filter inference of Manningâ€™s n coefficient of an idealized tidal inlet against a polynomial chaos-based MCMC. Ocean Dynamics, 2017, 67, 1067-1094.	2.2	9
18	Quantifying uncertainties in fault slip distribution during the TÅhoku tsunami using polynomial chaos. Ocean Dynamics, 2017, 67, 1535-1551.	2.2	7

#	Article	IF	Citations
19	Numerical model for the deformation of nucleated cells by optical stretchers. Journal of Optics (United Kingdom), 2015, 17, 075403.	2.2	1
20	A Numerical Study of the Influence of Cellular Adhesion on Prestress in Atomic Force Microscopy Measurements. Journal of Advanced Microscopy Research, 2011, 6, 89-96.	0.3	1