Aleksander I Lopato

List of Publications by Year
in descending order

13 papers	**49** citations	1684188 **5** h-index	1720034 **7** g-index
14 all docs	**14** docs citations	**14** times ranked	**19** citing authors

#	Article	IF	Citations
1	Numerical Study of Detonation Wave Propagation in the Variable Cross-Section Channel Using Unstructured Computational Grids. Journal of Combustion, 2018, 2018, 1-8.	1.0	10
2	Toward Second-Order Algorithm for the Pulsating Detonation Wave Modeling in the Shock-Attached Frame. Combustion Science and Technology, 2016, 188, 1844-1856.	2.3	8
3	The Usage of Grid-Characteristic Method for the Simulation of Flows with Detonation Waves. Smart Innovation, Systems and Technologies, 2019, , 281-290.	0.6	8
4	Detailed simulation of the pulsating detonation wave in the shock-attached frame. Computational Mathematics and Mathematical Physics, 2016, 56, 841-853.	0.8	6
5	Mechanisms of detonation initiation in multi-focusing systems. Shock Waves, 2020, 30, 741-753.	1.9	6
6	Two approaches to the mathematical modeling of detonation waves. Mathematical Models and Computer Simulations, 2016, 8, 585-594.	0.5	4
7	Numerical Simulation of Detonation Initiation: The Quest of Grid Resolution. Smart Innovation, Systems and Technologies, 2020, , 79-89.	0.6	4
8	Nonlinear dynamics of pulsating detonation wave with two-stage chemical kinetics in the shock-attached frame. Journal of Inverse and Ill-Posed Problems, 2021, 29, 557-576.	1.0	2
9	Mathematical modeling of detonation initiation and propagation in the complex-shaped domains. Journal of Physics: Conference Series, 2019, 1147, 012039.	0.4	1
10	Mathematical modeling of initiation and propagation of detonation in the areas of complex shapes using fully unstructured grids. AIP Conference Proceedings, 2018, , .	0.4	0
11	Some Aspects on Pulsating Detonation Wave Numerical Simulation Using Detailed Chemical Kinetics Mechanism. Smart Innovation, Systems and Technologies, 2021, , 103-114.	0.6	0
12	Numerical Simulation of Shock-To-Detonation Transition Using One-Stage and Detailed Chemical Kinetics Mechanism. Smart Innovation, Systems and Technologies, 2021, , 79-88.	0.6	0
13	Parallel Computational Algorithm for the Simulation of Flows with Detonation Waves on Fully Unstructured Grids. Communications in Computer and Information Science, 2020, , 198-208.	0.5	0