

# Aleksander I Lopato

## List of Publications by Year in descending order

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13  
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1684188

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