

Jae Gang Kim

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7443259/publications.pdf>

Version: 2024-02-01

33
papers

526
citations

687363

13
h-index

642732

23
g-index

33
all docs

33
docs citations

33
times ranked

162
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of Fay and Riddell formula under hypersonic flight conditions. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2023, 33, 14-41.	2.8	3
2	Low-frequency shock train oscillation control in a constant area duct. <i>Physics of Fluids</i> , 2022, 34, .	4.0	15
3	Determination of surface catalysis on copper oxide in a shock tube using thermochemical nonequilibrium CFD analysis. <i>Acta Astronautica</i> , 2022, 193, 75-89.	3.2	7
4	Influence of catalytic wall on the effective radius of a blunt body geometry in a nonequilibrium hypersonic flow. <i>Case Studies in Thermal Engineering</i> , 2022, 35, 102085.	5.7	4
5	CO ₂ number density measurement in a shock tube with preheated carbon surface. <i>Physics of Fluids</i> , 2022, 34, 067105.	4.0	1
6	Numerical and Experimental Study of the Effects of Surface Temperature and Oxygen Mass Flux on the Ablation of Carbon-Carbon Composites. <i>Applied Composite Materials</i> , 2021, 28, 529-557.	2.5	7
7	Modification of chemical-kinetic parameters for 11-air species in re-entry flows. <i>International Journal of Heat and Mass Transfer</i> , 2021, 169, 120950.	4.8	27
8	Prediction of shock standoff distance with modified rotational relaxation time of air mixture. <i>Physics of Fluids</i> , 2021, 33, .	4.0	8
9	Stagnation-point heating and ablation analysis of orbital re-entry experiment. <i>Physics of Fluids</i> , 2021, 33, .	4.0	10
10	Analysis of wall partial pressure-dependence on oxygen surface catalytic recombination with shock-heated flow. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101600.	5.7	7
11	Thermochemical nonequilibrium modeling of oxygen in hypersonic air flows. <i>International Journal of Heat and Mass Transfer</i> , 2020, 148, 119059.	4.8	30
12	Thermochemical nonequilibrium flow analysis in low enthalpy shock-tunnel facility. <i>PLoS ONE</i> , 2020, 15, e0240300.	2.5	9
13	Analysis of nitrogen recombination activity on silicon dioxide with stagnation heat-transfer. <i>Acta Astronautica</i> , 2020, 177, 386-397.	3.2	15
14	Stagnation-point heating of Fire II with a non-Boltzmann radiation model. <i>International Journal of Heat and Mass Transfer</i> , 2020, 153, 119566.	4.8	12
15	Thermochemical nonequilibrium flow analysis in low enthalpy shock-tunnel facility. , 2020, 15, e0240300.		0
16	Thermochemical nonequilibrium flow analysis in low enthalpy shock-tunnel facility. , 2020, 15, e0240300.		0
17	Thermochemical nonequilibrium flow analysis in low enthalpy shock-tunnel facility. , 2020, 15, e0240300.		0
18	Thermochemical nonequilibrium flow analysis in low enthalpy shock-tunnel facility. , 2020, 15, e0240300.		0

#	ARTICLE	IF	CITATIONS
19	Thermochemical nonequilibrium flow analysis in low enthalpy shock-tunnel facility. , 2020, 15, e0240300.		0
20	Thermochemical nonequilibrium flow analysis in low enthalpy shock-tunnel facility. , 2020, 15, e0240300.		0
21	Effects of component geometries and inflow conditions on ejector operational mode. Journal of Mechanical Science and Technology, 2019, 33, 5003-5008.	1.5	6
22	Electronic-state-resolved analysis of high-enthalpy air plasma flows. Physical Review E, 2019, 100, 033203.	2.1	18
23	Evaluation System for Ablative Material in a High-Temperature Torch. International Journal of Aeronautical and Space Sciences, 2019, 20, 620-635.	2.0	18
24	Temperature determination in a shock tube using hydroxyl radical A-X band emission. Physics of Fluids, 2019, 31, 026109.	4.0	11
25	Thermochemical nonequilibrium parameter modification of oxygen for a two-temperature model. Physics of Fluids, 2018, 30, .	4.0	31
26	Rovibrational Nonequilibrium of Nitrogen Behind a Strong Normal Shock Wave. International Journal of Aeronautical and Space Sciences, 2017, 18, 28-37.	2.0	3
27	Expansion of the equilibrium constants for the temperature range of 300K to 20,000K. International Journal of Aeronautical and Space Sciences, 2016, 17, 455-466.	2.0	14
28	Master Equation Analysis of Post Normal Shock Waves of Nitrogen. Journal of Thermophysics and Heat Transfer, 2015, 29, 241-252.	1.6	20
29	Thermochemical nonequilibrium analysis of O ₂ +Ar based on state-resolved kinetics. Chemical Physics, 2015, 446, 76-85.	1.9	17
30	Rovibrational Energy Transitions and Coupled Chemical Reaction Modeling of H+H ₂ and He+H ₂ in DSMC. International Journal of Aeronautical and Space Sciences, 2015, 16, 347-359.	2.0	0
31	State-resolved master equation analysis of thermochemical nonequilibrium of nitrogen. Chemical Physics, 2013, 415, 237-246.	1.9	150
32	Master Equation Study and Nonequilibrium Chemical Reactions for Hydrogen Molecule. Journal of Thermophysics and Heat Transfer, 2010, 24, 281-290.	1.6	27
33	Master Equation Study and Nonequilibrium Chemical Reactions for H + H ₂ and He + H ₂ . Journal of Thermophysics and Heat Transfer, 2009, 23, 443-453.	1.6	56