Tae-Woo Lee

List of Publications by Year
in descending order

37 papers	394 citations	840776 11 h-index	794594 19 g-index
37 all docs	37 docs citations	37 times ranked	309 citing authors

#	Article	IF	Citations
1	Measurements of minimum ignition energy by using laser sparks for hydrocarbon fuels in air: propane, dodecane, and jet-A fuel. Combustion and Flame, 2001, 125, 1320-1328.	5.2	83
2	Soot formation characteristics of laminar partially premixed flames. Combustion and Flame, 1998, 115, 437-442.	5.2	37
3	Laser-induced breakdown spectroscopy for in situ diagnostics of combustion parameters including temperature. Combustion and Flame, 2005, 142, 314-316.	5.2	37
4	Effects of variable partial premixing on turbulent jet flame structure. Combustion and Flame, 1997, 109, 536-548.	5.2	34
5	Quadratic formula for determining the drop size in pressure-atomized sprays with and without swirl. Physics of Fluids, 2016, 28, .	4.0	22
6	Liquid Sprays for Heat Transfer Enhancements: A Review. Heat Transfer Engineering, 2016, 37, 1401-1417.	1.9	21
7	Calculation of the Drop Size Distribution and Velocities from the Integral Form of the Conservation Equations. Combustion Science and Technology, 2010, 183, 271-284.	2.3	14
8	Temperature, velocity, and nox/co emission measurements in turbulent flames: effects of partial premixing with central fuel injection. Combustion and Flame, 2000, 121, 378-385.	5.2	13
9	Determination of the Drop Size During Air-Blast Atomization. Journal of Fluids Engineering, Transactions of the ASME, 2019, 141, .	1.5	13
10	Analyses of spray break-up mechanisms using the integral form ofÂtheÂconservation equations. Combustion Theory and Modelling, 2014, 18, 89-100.	1.9	12
11	DETERMINATION OF THE DROP SIZE DURING ATOMIZATION OF LIQUID JETS IN CROSS FLOWS. Atomization and Sprays, 2018, 28, 241-254.	0.8	12
12	LIQUID CORE STRUCTURE OF PRESSURE-ATOMIZED SPRAYS VIA LASER TOMOGRAPHIC IMAGING. Atomization and Sprays, 1996, 6, 111-126.	0.8	11
13	Structure of Lean Turbulent Partially-Premixed Flames Stabilized in a Co-Axial Jet Flame Burner. Combustion Science and Technology, 1997, 127, 231-249.	2.3	10
14	Momentum Effects on the Spray Drop Size, Calculated from the Integral Form of the Conservation Equations. Combustion Science and Technology, 2012, 184, 434-443.	2.3	8
15	Prediction of Leidenfrost Temperature in Spray Cooling for Continuous Casting and Heat Treatment Processes. Metals, 2020, 10, 1551.	2.3	8
16	Lagrangian transport equations and an iterative solution method for turbulent jet flows. Physica D: Nonlinear Phenomena, 2020, 403, 132333.	2.8	8
17	Flame Curvature Statistics in Axisymmetric Turbulent Jet Flames. Combustion Science and Technology, 1995, 108, 31-46.	2.3	6
18	Computational Simulations of Flow and Oxygen/Drug Delivery in a Three-Dimensional Capillary Network. , 2014, 2014, 1-11.		6

#	Article	IF	Citations
19	The Reynolds stress in turbulence from a Lagrangian perspective. Journal of Physics Communications, 2018, 2, 055027.	1.2	6
20	Lognormality in Turbulence Energy Spectra. Entropy, 2020, 22, 669.	2.2	6
21	Scaling of the maximum-entropy turbulence energy spectra. European Journal of Mechanics, B/Fluids, 2021, 87, 128-134.	2.5	5
22	Maximum Entropy Method for Solving the Turbulent Channel Flow Problem. Entropy, 2019, 21, 675.	2.2	4
23	Dissipation scaling and structural order in turbulent channel flows. Physics of Fluids, 2021, 33, 055105.	4.0	3
24	Multi-dimensional simulations of the chemical vapor deposition for thermal barrier coatings using ZrCl4â€“H2â€“CO2â€“Ar gas mixtures. Surface and Coatings Technology, 2006, 201, 1065-1073.	4.8	2
25	Approximate Solution to the Spray Heat Transfer Problem at High Surface Temperatures and Liquid Mass Fluxes. Heat Transfer Engineering, 2019, 40, 1649-1655.	1.9	2
26	Integral Formula for Determination of the Reynolds Stress in Canonical Flow Geometries. Springer Proceedings in Physics, 2017, , 147-152.	0.2	2
27	Computational Protocol for Spray Flow Simulations Including Primary Atomization. Journal of Fluids Engineering, Transactions of the ASME, 2021, 143, .	1.5	2
28	Entropy and Turbulence Structure. Entropy, 2022, 24, 11.	2.2	2
29	Scaling of Vortex-Induced Flame Stretch Profiles. Combustion Science and Technology, 1994, 102, 301-307.	2.3	1
30	Further Applications of the Integral Formula for Determination of the Reynolds Stress in Turbulent Flows. , 2017, , .		1
31	Computational Simulations of Liquid Sprays in Crossflows With an Algorithmic Module for Primary Atomization. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	1.1	1
32	Asymmetrical Order in Wall-Bounded Turbulent Flows. Fluids, 2021, 6, 329.	1.7	1
33	Computational Simulations of Spray Cooling with Air-Assist Injectors. Heat Transfer Engineering, 2023, 44, 823-836.	1.9	1
34	Soot Volume Fraction Measurements in the Soot-forming Regions of Ethylene-AirTurbulent Partially-premixed Flames. Combustion Science and Technology, 1998, 140, 29-49.	2.3	0
35	Orientation-averaged light-extinction characteristics of compound particles including aggregate effects. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2005, 22, 514.	1.5	0
36	Origin of the Turbulence Structure in Wall-Bounded Flows, and Implications toward Computability. Fluids, 2021, 6, 333.	1.7	0

#	ARTICLE	IF	CITATIONS
37	Generalizable Theory of Reynolds Stress. Springer Proceedings in Physics, 2021, , 237-243.	0.2	0