

# Hong-Sun Ryou

## List of Publications by Year in descending order

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72  
papers

1,272  
citations

471509

17  
h-index

395702

33  
g-index

72  
all docs

72  
docs citations

72  
times ranked

773  
citing authors

#	ARTICLE	IF	CITATIONS
1	A numerical study on smoke movement in longitudinal ventilation tunnel fires for different aspect ratio. Building and Environment, 2006, 41, 719-725.	6.9	154
2	CFD simulation and assessment of life safety in a subway train fire. Tunnelling and Underground Space Technology, 2009, 24, 447-453.	6.2	126
3	Critical velocity and burning rate in pool fire during longitudinal ventilation. Tunnelling and Underground Space Technology, 2007, 22, 262-271.	6.2	93
4	An Experimental Study of the Effect of the Aspect Ratio on the Critical Velocity in Longitudinal Ventilation Tunnel Fires. Journal of Fire Sciences, 2005, 23, 119-138.	2.0	90
5	Numerical Analysis of Aerodynamic Characteristics of Hyperloop System. Energies, 2019, 12, 518.	3.1	69
6	Modeling of droplet collision-induced breakup process. International Journal of Multiphase Flow, 2005, 31, 723-738.	3.4	68
7	An Experimental Study on the Effect of Slope on the Critical Velocity in Tunnel Fires. Journal of Fire Sciences, 2010, 28, 27-47.	2.0	59
8	Tunnel Fires: Experiments on Critical Velocity and Burning Rate in Pool Fire During Longitudinal Ventilation. Journal of Fire Sciences, 2007, 25, 161-176.	2.0	47
9	Droplet collision processes in an inter-spray impingement system. Journal of Aerosol Science, 2005, 36, 1300-1321.	3.8	43
10	Experimental study on the effect of heat release rate and aspect ratio of tunnel on the plug-holing phenomena in shallow underground tunnels. International Journal of Heat and Mass Transfer, 2017, 113, 1135-1141.	4.8	39
11	Development of a new spray/wall interaction model. International Journal of Multiphase Flow, 2000, 26, 1209-1234.	3.4	30
12	COMPUTATION OF SOLIDIFICATION AND MELTING USING THE PISO ALGORITHM. Numerical Heat Transfer, Part B: Fundamentals, 2004, 46, 179-194.	0.9	25
13	The effect of PSD on life safety in subway station fire. Journal of Mechanical Science and Technology, 2010, 24, 937-942.	1.5	25
14	Fluid-structure interaction analysis on the effects of vessel material properties on blood flow characteristics in stenosed arteries under axial rotation. Korea Australia Rheology Journal, 2011, 23, 7-16.	1.7	20
15	Coupled Turbulent Flow, Heat, and Solute Transport in Continuous Casting Processes with an Electromagnetic Brake. Numerical Heat Transfer; Part A: Applications, 2005, 48, 461-481.	2.1	19
16	Influence of the spectral solar radiation on the air flow and temperature distributions in a passenger compartment. International Journal of Thermal Sciences, 2014, 75, 36-44.	4.9	18
17	Development of a smoke effect model for representing the psychological pressure from the smoke. Safety Science, 2015, 77, 57-65.	4.9	18
18	An experimental and numerical study on thermal performance of a regenerator system with ceramic honeycomb. Journal of Mechanical Science and Technology, 2001, 15, 357-365.	0.4	17

#	ARTICLE	IF	CITATIONS
19	Air tightness measurement with transient methods using sudden expansion from a compressed chamber. <i>Building and Environment</i> , 2011, 46, 1937-1945.	6.9	17
20	Construction of healthy arteries using computed tomography and virtual histology intravascular ultrasound. <i>Journal of Biomechanics</i> , 2012, 45, 1612-1618.	2.1	17
21	Experimental Study on the Fire-Spreading Characteristics and Heat Release Rates of Burning Vehicles Using a Large-Scale Calorimeter. <i>Energies</i> , 2019, 12, 1465.	3.1	17
22	Heat transfer characteristics of a ceramic honeycomb regenerator for an oxy-fuel combustion furnace. <i>Applied Thermal Engineering</i> , 2014, 70, 494-500.	6.0	15
23	A numerical study on the effect of the hydraulic diameter of tunnels on the plug-holing phenomena in shallow underground tunnels. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 2331-2338.	1.5	15
24	Cooling effect of oil cooling method on electric vehicle motors with hairpin winding. <i>Journal of Mechanical Science and Technology</i> , 2021, 35, 407-415.	1.5	12
25	Development and application of a new spray impingement model considering film formation in a diesel engine. <i>Journal of Mechanical Science and Technology</i> , 2001, 15, 951-961.	0.4	11
26	A numerical study on the spray-to-spray impingement system. <i>Journal of Mechanical Science and Technology</i> , 2002, 16, 235-245.	0.4	11
27	Improvement in the applicability of the air tightness measurement using a sudden expansion of compressed air. <i>Building and Environment</i> , 2013, 61, 133-139.	6.9	11
28	Numerical study on the effect of elevator movement on pressure difference between vestibule and living room in high-rise buildings. <i>Building Simulation</i> , 2019, 12, 313-321.	5.6	9
29	Comparison of Spray/Wall Impingement Models with Experimental Data. <i>Journal of Propulsion and Power</i> , 2000, 16, 939-945.	2.2	8
30	Numerical Analysis on the Effect of the Tunnel Slope on the Plug-Holing Phenomena. <i>Energies</i> , 2019, 12, 59.	3.1	8
31	Numerical Study on the Effect of Tunnel Aspect Ratio on Evacuation with Unsteady Heat Release Rate Due to Fire in the Case of Two Vehicles. <i>Energies</i> , 2019, 12, 133.	3.1	8
32	Numerical Study of the Effects of the Jet Fan Speed, Heat Release Rate and Aspect Ratio on Smoke Movement in Tunnel Fires. <i>Energies</i> , 2020, 13, 1206.	3.1	8
33	A study on smoke movement in room fires with various pool fire location. <i>Journal of Mechanical Science and Technology</i> , 2002, 16, 1485-1496.	0.4	7
34	Investigation on the effect of hematocrit on unsteady hemodynamic characteristics in arteriovenous graft using the multiphase blood model. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 2565-2571.	1.5	7
35	A Mathematical Modeling of the Interaction Between Evacuees and Fire Through Radiation. <i>Fire Technology</i> , 2016, 52, 847-864.	3.0	7
36	A Numerical Analysis of the Fire Characteristics after Sprinkler Activation in the Compartment Fire. <i>Energies</i> , 2020, 13, 3099.	3.1	7

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37	Modeling of diesel spray impingement on a flat wall. Journal of Mechanical Science and Technology, 2000, 14, 796-806.	0.4	6
38	A network-based smoke control program with consideration of energy transfer in ultra-high-rise buildings, CAU_ESCAP. Building Simulation, 2013, 6, 173-182.	5.6	6
39	Effects of propane pyrolysis on basic flame structures of non-premixed jet flame. Journal of Mechanical Science and Technology, 2015, 29, 4053-4059.	1.5	6
40	Effects of droplet ratio and void fraction on the attenuation of radiative heat flux in water curtain. Fire Safety Journal, 2016, 80, 46-55.	3.1	6
41	Numerical Study on the Effect of the Pipe Groove Height and Pitch on the Flow Characteristics of Corrugated Pipe. Energies, 2021, 14, 2614.	3.1	6
42	Wave Interference Effect in Thin Film Structures under Pulsed Laser Irradiation. Materials Transactions, 2008, 49, 1880-1888.	1.2	5
43	Study of hemodynamic parameters to predict coronary artery disease using assumed healthy arterial models. Journal of Mechanical Science and Technology, 2015, 29, 1319-1325.	1.5	5
44	Effect of crack size on gas leakage characteristics in a confined space. Journal of Mechanical Science and Technology, 2016, 30, 3411-3419.	1.5	5
45	Development of new evacuation model (BR-radiation model) through an experiment. Journal of Mechanical Science and Technology, 2016, 30, 3379-3391.	1.5	5
46	Modelling of Wall Films Formed by Impinging Diesel Sprays. , 2001, , .		4
47	Fokker-Planck Approach to Laser-Induced Damage in Dielectrics with Subpicosecond Pulses. Nanoscale and Microscale Thermophysical Engineering, 2006, 10, 217-232.	2.6	4
48	Numerical study on bouncing and separation collision between two droplets considering the collision-induced breakup. Journal of Mechanical Science and Technology, 2007, 21, 585-592.	1.5	4
49	NUMERICAL SIMULATION OF SMOKE VENTILATION IN RESCUE STATION AND ESCAPE ROUTE OF RAILROAD TUNNEL IN FIRE INCIDENT. International Journal of Air-Conditioning and Refrigeration, 2012, 20, 1250011.	0.7	4
50	A numerical study on the effect of hematocrit on hemodynamic characteristics in arteriovenous graft. Korea Australia Rheology Journal, 2014, 26, 327-334.	1.7	4
51	Validation of a numerical model for curtain walls with MVHS during free burning. Fire Safety Journal, 2017, 94, 45-53.	3.1	4
52	Modification of Interaction Forces between Smoke and Evacuees. Energies, 2020, 13, 4177.	3.1	4
53	Numerical Study on Blood Flow Characteristics of the Stenosed Blood Vessel with Periodic Acceleration and Rotating Effect. Springer Proceedings in Physics, 2008, , 77-83.	0.2	4
54	Comparison of two-equation model and reynolds stress models with experimental data for the three-dimensional turbulent boundary layer in a 30 degree bend. Journal of Mechanical Science and Technology, 2000, 14, 93-102.	0.4	3

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55	A numerical study of the effect of catheter angle on the blood flow characteristics in a graft during hemodialysis. Korea Australia Rheology Journal, 2013, 25, 19-27.	1.7	3
56	A study on the unsteady flow characteristics in a vestibule for an injection and pressurization smoke-control system. Fire Safety Journal, 2014, 70, 112-120.	3.1	3
57	Investigation of the Thermal Characteristics of a Circular Fusible-Type Sprinkler Using the Energy Transport Equation. Fire Technology, 2016, 52, 1409-1425.	3.0	3
58	The effect of damper leakage and fire size on the performance of smoke control system in high-rise building. Journal of Mechanical Science and Technology, 2017, 31, 4029-4034.	1.5	3
59	Experimental Study on Effect of Tunnel Slope on Heat Release Rate with Heat Feedback Mechanism. Fire Technology, 2021, 57, 2661-2681.	3.0	3
60	Optical Characteristics and Nanoscale Energy Transport in Thin Film Structures Irradiated by Nanosecond-to-Femtosecond Lasers. Materials Transactions, 2008, 49, 2521-2527.	1.2	2
61	A Modified Fire Effect Model on Evacuation by Considering the Psychological Anxiety Caused by the Fire. Transportation Research Procedia, 2014, 2, 801-806.	1.5	2
62	Numerical study on the effect of separate cannulation method on hemodynamics in an arteriovenous graft. Journal of Mechanical Science and Technology, 2016, 30, 963-970.	1.5	2
63	Development and application of a simplified radiative transport equation in water curtain systems. Fire Safety Journal, 2018, 96, 124-133.	3.1	2
64	Hemodynamic Analysis on the Anastomosis Angle in Arteriovenous Graft Using Multiphase Blood Model. Applied Sciences (Switzerland), 2021, 11, 8160.	2.5	2
65	A Study of Effect of the Radiative Heat Flux on the Evacuation of Agents. Fire Science and Engineering, 2014, 28, 31-36.	0.4	2
66	A Numerical Investigation on the Development of an Embedded Streamwise Vortex in a Turbulent Boundary Layer With Spanwise Pressure Gradient. Journal of Fluids Engineering, Transactions of the ASME, 2001, 123, 551-558.	1.5	1
67	Development of CAU_USCOP, a network-based unsteady smoke simulation program for high-rise buildings. Building Simulation, 2014, 7, 503-510.	5.6	1
68	Development of an oxy-fuel combustor with fuel preheating for regenerator system. Journal of Mechanical Science and Technology, 2015, 29, 4555-4559.	1.5	1
69	The influence of fire size on breakage time for double glazed curtain wall system in enclosure fire. Journal of Mechanical Science and Technology, 2018, 32, 977-983.	1.5	1
70	Numerical study to evaluate the effect of a surface-based sensor on arterial tonometry. Computer Methods in Biomechanics and Biomedical Engineering, 2018, 21, 845-851.	1.6	1
71	A numerical study on the effect of sprinkler pressure on ASET in cinema fire. AIP Conference Proceedings, 2020, , .	0.4	0
72	Predicting the Fire Source Location by Using the Pipe Hole Network in Aspirating Smoke Detection System. Applied Sciences (Switzerland), 2022, 12, 2801.	2.5	0