# Hong-Sun Ryou

List of Publications by Year
in descending order

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|---|---|---|---|
| 72<br>papers | 1,272<br>citations | 471509<br>17<br>h-index | 395702<br>33<br>g-index |
| 72<br>all docs | 72<br>docs citations | 72<br>times ranked | 773<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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 |
| 2 | Cooling effect of oil cooling method on electric vehicle motors with hairpin winding. Journal of Mechanical Science and Technology, 2021, 35, 407-415. | 1.5 | 12 |
| 3 | Experimental Study on Effect of Tunnel Slope on Heat Release Rate with Heat Feedback Mechanism. Fire Technology, 2021, 57, 2661-2681. | 3.0 | 3 |
| 4 | 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 |
| 5 | Hemodynamic Analysis on the Anastomosis Angle in Arteriovenous Graft Using Multiphase Blood Model. Applied Sciences (Switzerland), 2021, 11, 8160. | 2.5 | 2 |
| 6 | Modification of Interaction Forces between Smoke and Evacuees. Energies, 2020, 13, 4177. | 3.1 | 4 |
| 7 | A numerical study on the effect of sprinkler pressure on ASET in cinema fire. AIP Conference Proceedings, 2020, , . | 0.4 | 0 |
| 8 | Numerical Study of the Effects of the Jet Fan Speed, Heat Release Rate and Aspect Ratio on Smoke Movement in Tunnel Fires. Energies, 2020, 13, 1206. | 3.1 | 8 |
| 9 | A Numerical Analysis of the Fire Characteristics after Sprinkler Activation in the Compartment Fire. Energies, 2020, 13, 3099. | 3.1 | 7 |
| 10 | Numerical Analysis on the Effect of the Tunnel Slope on the Plug-Holing Phenomena. Energies, 2019, 12, 59. | 3.1 | 8 |
| 11 | Experimental Study on the Fire-Spreading Characteristics and Heat Release Rates of Burning Vehicles Using a Large-Scale Calorimeter. Energies, 2019, 12, 1465. | 3.1 | 17 |
| 12 | 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. Energies, 2019, 12, 133. | 3.1 | 8 |
| 13 | Numerical Analysis of Aerodynamic Characteristics of Hyperloop System. Energies, 2019, 12, 518. | 3.1 | 69 |
| 14 | Numerical study on the effect of elevator movement on pressure difference between vestibule and living room in high-rise buildings. Building Simulation, 2019, 12, 313-321. | 5.6 | 9 |
| 15 | 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 |
| 16 | Development and application of a simplified radiative transport equation in water curtain systems. Fire Safety Journal, 2018, 96, 124-133. | 3.1 | 2 |
| 17 | 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 |
| 18 | A numerical study on the effect of the hydraulic diameter of tunnels on the plug-holing phenomena in shallow underground tunnels. Journal of Mechanical Science and Technology, 2017, 31, 2331-2338. | 1.5 | 15 |

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|---|---|---|---|
| 19 | Validation of a numerical model for curtain walls with MVHS during free burning. Fire Safety Journal, 2017, 94, 45-53. | 3.1 | 4 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | Development of new evacuation model (BR-radiation model) through an experiment. Journal of Mechanical Science and Technology, 2016, 30, 3379-3391. | 1.5 | 5 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | A Mathematical Modeling of the Interaction Between Evacuees and Fire Through Radiation. Fire Technology, 2016, 52, 847-864. | 3.0 | 7 |
| 28 | 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 |
| 29 | 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 |
| 30 | Development of a smoke effect model for representing the psychological pressure from the smoke. Safety Science, 2015, 77, 57-65. | 4.9 | 18 |
| 31 | Investigation on the effect of hematocrit on unsteady hemodynamic characteristics in arteriovenous graft using the multiphase blood model. Journal of Mechanical Science and Technology, 2015, 29, 2565-2571. | 1.5 | 7 |
| 32 | 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 |
| 33 | Influence of the spectral solar radiation on the air flow andÂtemperature distributions in a passenger compartment. International Journal of Thermal Sciences, 2014, 75, 36-44. | 4.9 | 18 |
| 34 | Development of CAU_USCOP, a network-based unsteady smoke simulation program for high-rise buildings. Building Simulation, 2014, 7, 503-510. | 5.6 | 1 |
| 35 | 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 |
| 36 | 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 |

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|---|---|---|---|
| 37 | Heat transfer characteristics of a ceramic honeycomb regenerator for an oxy-fuel combustion furnace. Applied Thermal Engineering, 2014, 70, 494-500. | 6.0 | 15 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | Improvement in the applicability of the air tightness measurement using a sudden expansion of compressed air. Building and Environment, 2013, 61, 133-139. | 6.9 | 11 |
| 43 | 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 |
| 44 | Construction of healthy arteries using computed tomography and virtual histology intravascular ultrasound. Journal of Biomechanics, 2012, 45, 1612-1618. | 2.1 | 17 |
| 45 | 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 |
| 46 | Air tightness measurement with transient methods using sudden expansion from a compressed chamber. Building and Environment, 2011, 46, 1937-1945. | 6.9 | 17 |
| 47 | The effect of PSD on life safety in subway station fire. Journal of Mechanical Science and Technology, 2010, 24, 937-942. | 1.5 | 25 |
| 48 | 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 |
| 49 | CFD simulation and assessment of life safety in a subway train fire. Tunnelling and Underground Space Technology, 2009, 24, 447-453. | 6.2 | 126 |
| 50 | Wave Interference Effect in Thin Film Structures under Pulsed Laser Irradiation. Materials Transactions, 2008, 49, 1880-1888. | 1.2 | 5 |
| 51 | 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 |
| 52 | 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 |
| 53 | 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 |
| 54 | Critical velocity and burning rate in pool fire during longitudinal ventilation. Tunnelling and Underground Space Technology, 2007, 22, 262-271. | 6.2 | 93 |

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|---|---|---|---|
| 55 | 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 |
| 56 | Fokker-Planck Approach to Laser-Induced Damage in Dielectrics with Subpicosecond Pulses. Nanoscale and Microscale Thermophysical Engineering, 2006, 10, 217-232. | 2.6 | 4 |
| 57 | 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 |
| 58 | Modeling of droplet collision-induced breakup process. International Journal of Multiphase Flow, 2005, 31, 723-738. | 3.4 | 68 |
| 59 | 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 |
| 60 | 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 |
| 61 | Droplet collision processes in an inter-spray impingement system. Journal of Aerosol Science, 2005, 36, 1300-1321. | 3.8 | 43 |
| 62 | COMPUTATION OF SOLIDIFICATION AND MELTING USING THE PISO ALGORITHM. Numerical Heat Transfer, Part B: Fundamentals, 2004, 46, 179-194. | 0.9 | 25 |
| 63 | A study on smoke movement in room fires with various pool fire location. Journal of Mechanical Science and Technology, 2002, 16, 1485-1496. | 0.4 | 7 |
| 64 | A numerical study on the spray-to-spray impingement system. Journal of Mechanical Science and Technology, 2002, 16, 235-245. | 0.4 | 11 |
| 65 | Modelling of Wall Films Formed by Impinging Diesel Sprays. , 2001, , . | | 4 |
| 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 and application of a new spray impingement model considering film formation in a diesel engine. Journal of Mechanical Science and Technology, 2001, 15, 951-961. | 0.4 | 11 |
| 68 | 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 |
| 69 | Development of a new spray/wall interaction model. International Journal of Multiphase Flow, 2000, 26, 1209-1234. | 3.4 | 30 |
| 70 | Modeling of diesel spray impingement on a flat wall. Journal of Mechanical Science and Technology, 2000, 14, 796-806. | 0.4 | 6 |
| 71 | 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 |
| 72 | Comparison of Spray/Wall Impingement Models with Experimental Data. Journal of Propulsion and Power, 2000, 16, 939-945. | 2.2 | 8 |