Chang Hyun Sohn

List of Publications by Year
in descending order

35	367	759233	839539
papers	citations	12 h-index	18 g-index

35	35	35	210
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Flow and Heat Transfer Characteristics of Cylindrical Structures with Corner Radius Variation: Tandem, SIDE-BY-SIDE, and Flow-Induced Vibration. Heat Transfer Engineering, 2021, 42, 251-269.	1.9	5
2	Effects of surface laminate type and recycled fiber content on properties of three-layer medium density fiberboard. Wood Material Science and Engineering, 2020, 15, 163-171.	2.3	20
3	A numerical investigation on the performance improvement of axial-flow automotive cooling fan with beads. Journal of Mechanical Science and Technology, 2020, 34, 3317-3323.	1.5	2
4	Effect of convergent duct geometry on the energy extraction performance of tandem oscillating hydrofoils system. Journal of Fluids and Structures, 2020, 95, 102949.	3.4	7
5	Effects of the downstream spatial configuration on the energy extraction performance of tandem/parallel combined oscillating hydrofoils. Journal of Mechanical Science and Technology, 2020, 34, 2035-2046.	1.5	3
6	Systematic investigation of a flapping wing in inclined stroke-plane hovering. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	2
7	Numerical investigation of the aerodynamic performance of dragonfly-like flapping foil in take-off flight. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 5801-5815.	1.3	1
8	Numerical investigation of the aerodynamic benefits of wing-wing interactions in a dragonfly-like flapping wing. Journal of Mechanical Science and Technology, 2019, 33, 2725-2735.	1.5	7
9	Numerical investigation on thrust production and unsteady mechanisms of three-dimensional oscillating wing. Journal of Mechanical Science and Technology, 2019, 33, 5889-5900.	1.5	3
10	CFD analysis of performance change in accordance with inner surface roughness of a double-entry centrifugal pump. Journal of Mechanical Science and Technology, 2018, 32, 697-702.	1.5	11
11	Effect of spacing on a pair of naturally oscillating circular cylinders in tandem arrangements employing IB-LB methods: Crossflow-induced vibrations. International Journal of Mechanical Sciences, 2018, 142-143, 74-85.	6.7	20
12	Effect of water temperature on air-core generation and disappearance during draining. Journal of Mechanical Science and Technology, 2018, 32, 703-708.	1.5	16
13	Aircore mechanism during draining based on influence of pressure difference and drain port diameter. Journal of Mechanical Science and Technology, 2018, 32, 5723-5728.	1.5	2
14	Practical payload assessment of a prototype blade for agricultural unmanned rotorcraft. Journal of Mechanical Science and Technology, 2018, 32, 5659-5669.	1.5	2
15	Effects of advance ratio on elytra-hindwing interaction in forward flying Coleopteran beetle. Journal of Mechanical Science and Technology, 2018, 32, 5703-5710.	1.5	5
16	Influence of rounded corners on flow interference between two tandem cylinders using FVM and IB-LBM. International Journal of Numerical Methods for Heat and Fluid Flow, 2018, 28, 1648-1663.	2.8	19
17	Flow interference of two side-by-side square cylinders using IB-LBM â€“ Effect of corner radius. Results in Physics, 2018, 10, 256-263.	4.1	17
18	Study of aircore phenomenon and influence of water height during liquid draining. Journal of Mechanical Science and Technology, 2017, 31, 3831-3837.	1.5	11

#	Article	IF	Citations
19	Effect of rounded corners on two degree of freedom naturally oscillating square cylinder. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 2355-2374.	2.8	9
20	Aerodynamic performance optimization for the rotor design of a hovering agricultural unmanned helicopter. Journal of Mechanical Science and Technology, 2017, 31, 4221-4226.	1.5	10
21	A parametric analysis of direct laser deposition process using vibration control feeding system. International Journal of Advanced Manufacturing Technology, 2017, 89, 1669-1676.	3.0	4
22	Aerodynamic performance evaluation of basic airfoils for an agricultural unmanned helicopter using wind tunnel test and CFD simulation. Journal of Mechanical Science and Technology, 2017, 31, 5829-5838.	1.5	5
23	Numerical study of 3-D air core phenomenon during liquid draining. Journal of Mechanical Science and Technology, 2015, 29, 4247-4257.	1.5	18
24	A PIV study of the near wake flow features of a square cylinder: influence of corner radius. Journal of Mechanical Science and Technology, 2015, 29, 527-541.	1.5	12
25	Numerical study of flow past a square cylinder with corner curvature at incidence. , 2014, , .		3
26	Numerical analysis of vortex core phenomenon during draining from cylinder tank for various initial swirling speeds and various tank and drain port sizes. Journal of Hydrodynamics, 2013, 25, 183-195.	3.2	24
27	Experimental and numerical study on air cores for cylindrical tank draining. International Communications in Heat and Mass Transfer, 2011, 38, 1044-1049.	5.6	36
28	PIV study of vortexing during draining from square tanks. Journal of Mechanical Science and Technology, 2010, 24, 951-960.	1.5	23
29	Draining from cylindrical tanks with vane-type suppressors â€" A PIV study. Journal of Visualization, 2009, 12, 347-360.	1.8	26
30	Influence of corner radius on the near wake structure of a transversely oscillating square cylinder. Journal of Mechanical Science and Technology, 2009, 23, 2390-2416.	1.5	23
31	Interference excitation of a square section cylinder. Journal of Mechanical Science and Technology, 2008, 22, 599-607.	1.5	9
32	Computational study of the mixed cooling effects on the in-vessel retention of a molten pool in a nuclear reactor. Journal of Mechanical Science and Technology, 2004, 18, 990-1001.	0.4	1
33	Numerical investigation on the heat transfer characteristics of a liquid-metal pool subjected to a partial solidification process. Progress in Nuclear Energy, 2004, 44, 277-304.	2.9	7
34	Investigations of three-dimensional flow characteristics in a liquid ramjet combustor using the PIV method. Journal of Visualization, 2002, 5, 59-65.	1.8	0
35	A numerical study on the heat transfer enhancement behavior of water-microparticles suspension. Journal of Thermal Science, 2002, 11, 128-133.	1.9	4