Oh Joon Kwon

List of Publications by Year
in descending order

82 papers	1,015 citations	430874 18 h-index	501196 28 g-index
83 all docs	83 docs citations	83 times ranked	551 citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical Study of Effects of Fuselage and Facility Wall on PSP Rotor Performance in Hover. International Journal of Aeronautical and Space Sciences, 2022, 23, 19-30.	2.0	4
2	Improved high-order high-resolution energy stable weighted essentially non-oscillatory plus scheme for shock/vortex problems. AIP Advances, 2022, 12, 045106.	1.3	1
3	Numerical simulation of HVAB rotor in hover using a mixed-mesh flow solver. Journal of Mechanical Science and Technology, 2022, 36, 2969-2979.	1.5	0
4	Numerical Study about Aerodynamic Interaction for Coaxial Rotor Blades. International Journal of Aeronautical and Space Sciences, 2021, 22, 277-286.	2.0	9
5	Temperature measurement of carbon dioxide using emission spectroscopy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 260, 107463.	2.3	5
6	Numerical Study of HVAB Rotor Using a Mixed Mesh Flow Solver. , 2021, , .		7
7	Numerical simulation of transitional flows using a blended IDDES and correlation-based transition model. Computers and Fluids, 2021, 222, 104916.	2.5	3
8	Numerical investigation of effect of crossflow transition on rotor blade performance in hover. Aerospace Science and Technology, 2021, 114, 106733.	4.8	3
9	Numerical Study About Buffet Characteristics and Attenuation of Vertical Tail at High Angles of Attack. International Journal of Aeronautical and Space Sciences, 2020, 21, 315-328.	2.0	1
10	Performance improvement of horizontal axis wind turbines by aerodynamic shape optimization including aeroealstic deformation. Renewable Energy, 2020, 147, 2128-2140.	8.9	26
11	Master Equation Analysis and Rotational Relaxation Time for N_2-N_2. , 2020, , .		0
12	Numerical Study of Isolated and Full Configuration PSP Rotor Using a Mixed Mesh Flow Solver. , 2020, , .		3
13	Stagnation-point heating of Fire II with a non-Boltzmann radiation model. International Journal of Heat and Mass Transfer, 2020, 153, 119566.	4.8	12
14	Effect of Platform Motion on Aerodynamic Performance and Aeroelastic Behavior of Floating Offshore Wind Turbine Blades. Energies, 2019, 12, 2519.	3.1	5
15	Electronic-state-resolved analysis of high-enthalpy air plasma flows. Physical Review E, 2019, 100, 033203.	2.1	18
16	Prediction of Stagnation-Point Radiative Heating for FIRE II. , 2019, , 957-966.		0
17	Temperature determination in a shock tube using hydroxyl radical A-X band emission. Physics of Fluids, 2019, 31, 026109.	4.0	11
18	Numerical Simulation of Horizontal Axis Wind Turbines with Vortex Generators. International Journal of Aeronautical and Space Sciences, 2019, 20, 325-334.	2.0	13

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19	Assessment of S-76 rotor hover performance in ground effect using an unstructured mixed mesh method. Aerospace Science and Technology, 2019, 84, 223-236.	4.8	23
20	Aeroelastic Study for HART II Rotor Using Unstructured Mixed Meshes. International Journal of Aeronautical and Space Sciences, 2019, 20, 1-15.	2.0	7
21	Numerical Study of PSP Rotor Blades using a γ-Re$_{\theta t}$ - CF^+ Turbulent Transition Model. , 2019, , .		0
22	Investigation of Aeroelastic Characteristics for Backward Swept Blade of HAWT by Using a Coupled CFD/CSD Method. New & Renewable Energy, 2019, 15, 27-35.	0.4	1
23	A narrow-band k-distribution model with single mixture gas assumption for radiative flows. Infrared Physics and Technology, 2018, 91, 27-36.	2.9	7
24	Modeling of incomplete combustion in a scramjet engine. Aerospace Science and Technology, 2018, 78, 397-402.	4.8	10
25	Numerical simulation of heat transfer flows by a direct solution of generalized kinetic models. Computers and Fluids, 2018, 164, 114-118.	2.5	0
26	Prediction of Surfical Pressure Loading for an Underwater Projectile Using CFD-Based Database. International Journal of Aeronautical and Space Sciences, 2018, 19, 618-625.	2.0	9
27	Parametric Study and Design of Tab Shape for Improving Aerodynamic Performance of Rotor Blade. International Journal of Aeronautical and Space Sciences, 2018, 19, 32-52.	2.0	1
28	Numerical Simulation about Mixing Characteristics of an Inlet-Fueled Scramjet Engine. , 2017, , .		1
29	Recent Improvement of a Correlation-Based Transition Model for Simulating Three-Dimensional Boundary Layers. AIAA Journal, 2017, 55, 2103-2108.	2.6	18
30	Aerodynamic shape optimization of wind turbine rotor blades considering aeroelastic deformation effect. Journal of Mechanical Science and Technology, 2016, 30, 705-718.	1.5	8
31	Aeroelastic Analysis of High-Aspect-Ratio Wings Using a Coupled CFD-CSD Method. Transactions of the Japan Society for Aeronautical and Space Sciences, 2016, 59, 123-133.	0.7	9
32	Numerical Simulation of Supersonic Inlet Flow with Movable Cowl. Journal of Propulsion and Power, 2015, 31, 1470-1473.	2.2	3
33	Numerical Study of Aerodynamic Performance of a Multirotor Unmanned-Aerial-Vehicle Configuration. Journal of Aircraft, 2015, 52, 839-846.	2.4	52
34	Experimental and Numerical Study of Stationary Throat Plug in Shock Tunnel. Journal of Thermophysics and Heat Transfer, 2015, 29, 482-495.	1.6	2
35	Numerical investigation of a pump-jet with ring rotor using an unstructured mesh technique. Journal of Mechanical Science and Technology, 2015, 29, 2897-2904.	1.5	24
36	Numerical study of effects of accommodation coefficients on slip phenomena. Journal of Mechanical Science and Technology, 2015, 29, 1883-1888.	1.5	2

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37	Experimental study of moving throat plug in a shock tunnel. Shock Waves, 2015, 25, 431-442.	1.9	2
38	Enhancement of a Correlation-Based Transition Turbulence Model for Simulating Crossflow Instability. AIAA Journal, 2015, 53, 3063-3072.	2.6	36
39	Assessment of Tip Shape Effect on Rotor Aerodynamic Performance in Hover. International Journal of Aeronautical and Space Sciences, 2015, 16, 295-310.	2.0	3
40	Experimental Study of Moving Throat Plug in a Shock Tunnel. , 2015, , 415-420.		0
41	A Prediction of Infrared Spectrum of Rocket Plume with Considering Soot Particles. Journal of the Korean Society of Propulsion Engineers, 2015, 19, 24-36.	0.2	0
42	Predicting wind turbine blade loads and aeroelastic response using a coupled CFD–CSD method. Renewable Energy, 2014, 70, 184-196.	8.9	99
43	Infrared radiation modeling of NO, OH, CO, H_2O, and CO_2 for emissivity/radiance prediction at high temperature. Infrared Physics and Technology, 2014, 67, 283-291.	2.9	21
44	Numerical investigation of prop-rotor and tail-wing aerodynamic interference for a tilt-rotor UAV configuration. Journal of Mechanical Science and Technology, 2014, 28, 2609-2617.	1.5	9
45	Assessment of Rotor Aerodynamic Performances in Hover Using an Unstructured Mixed Mesh Method. , 2014, , .		22
46	Numerical investigation of unsteady aerodynamics of a Horizontal‐axis wind turbine under yawed flow conditions. Wind Energy, 2013, 16, 711-727.	4.2	21
47	Effect of turbulence models on predicting HAWT rotor blade performances. Journal of Mechanical Science and Technology, 2013, 27, 3703-3711.	1.5	7
48	Assessment of a high-order discontinuous Galerkin method for vortex convection and wave propagation on unstructured meshes. Journal of Mechanical Science and Technology, 2013, 27, 3331-3346.	1.5	3
49	Numerical investigation of cavitating flows for marine propulsors using an unstructured mesh technique. International Journal of Heat and Fluid Flow, 2013, 43, 259-267.	2.4	18
50	Blending of SAS and correlation-based transition models for flow simulation at supercritical Reynolds numbers. Computers and Fluids, 2013, 80, 63-70.	2.5	15
51	Development of a 2-D flow solver on unstructured and adaptive Cartesian meshes. Journal of Mechanical Science and Technology, 2012, 26, 3989-3997.	1.5	7
52	Enhancement of wind turbine aerodynamic performance by a numerical optimization technique. Journal of Mechanical Science and Technology, 2012, 26, 455-462.	1.5	9
53	Numerical assessment of turbulent models at a critical regime on unstructured meshes. Journal of Mechanical Science and Technology, 2012, 26, 1363-1369.	1.5	3
54	Experimental study of shock tunnel flow with a stationary throat plug. Shock Waves, 2012, 22, 295-305.	1.9	6

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55	Predicting Rotor BVI Loads Inclusive of the Fuselage Effect using an Unstructured Mesh Technique. Transactions of the Japan Society for Aeronautical and Space Sciences, 2012, 55, 191-198.	0.7	0
56	Numerical Simulation of Free-Flight Rockets Air-Launched From a Helicopter. Journal of Aircraft, 2011, 48, 1766-1775.	2.4	7
57	Master Equation Study and Nonequilibrium Chemical Reactions for Hydrogen Molecule. Journal of Thermophysics and Heat Transfer, 2010, 24, 281-290.	1.6	27
58	State-to-State Transition and Non-Equilibrium Chemical Reaction in Direct Simulation Monte Carlo Method. , 2010, , .		0
59	Master Equation Study and Nonequilibrium Chemical Reactions for H + H2 and He + H2. Journal of Thermophysics and Heat Transfer, 2009, 23, 443-453.	1.6	56
60	A Conservative Overset Mesh Scheme via Intergrid Boundary Reconnection on Unstructured Meshes. , 2009, , .		3
61	Viscous Flow Simulation of Rotor Blades with Tip Slots in Hover. Journal of the American Helicopter Society, 2009, 54, 12006-120069.	0.8	3
62	A Parallel Unstructured Overset Mesh Technique for Unsteady Flow Simulations. , 2009, , 317-322.		1
63	Modification and expansion of the generalized soft-sphere model to high temperature based on collision integrals. Physics of Fluids, 2008, 20, .	4.0	12
64	Non-equilibrium Rotation-Vibration Transitions and Chemical Reactions in H+H[sub 2] and He+H[sub 2]. , 2008, , .		0
65	An efficient and robust implicit operator for upwind point Gauss–Seidel method. Journal of Computational Physics, 2007, 224, 1124-1144.	3.8	5
66	Assessment of implicit operators for the upwind point Gauss–Seidel method on unstructured meshes. Computers and Fluids, 2007, 36, 1335-1346.	2.5	8
67	Simulation of Unsteady Rotor-Fuselage Aerodynamic Interaction Using Unstructured Adaptive Meshes. Journal of the American Helicopter Society, 2006, 51, 141-149.	0.8	46
68	Aerodynamic Shape Optimization of Hovering Rotor Blades in Transonic Flow Using Unstructured Meshes. AIAA Journal, 2006, 44, 1816-1825.	2.6	23
69	A parallel unstructured dynamic mesh adaptation algorithm for 3-D unsteady flows. International Journal for Numerical Methods in Fluids, 2005, 48, 671-690.	1.6	19
70	Simulation of Unsteady Rotor Flow Field Using Unstructured Adaptive Sliding Meshes. Journal of the American Helicopter Society, 2004, 49, 391-400.	0.8	31
71	A parallel cell-based DSMC method on unstructured adaptive meshes. International Journal for Numerical Methods in Fluids, 2004, 44, 1317-1335.	1.6	11
72	Technical Note: Numerical Simulation of Fluid-Structure Interaction Under Two-Dimensional BVI. Journal of the American Helicopter Society, 2004, 49, 212-217.	0.8	0

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73	Detailed Aerodynamic Analysis of a Shrouded Tail Rotor Using an Unstructured Mesh Flow Solver. Transactions of the Japan Society for Aeronautical and Space Sciences, 2004, 47, 23-29.	0.7	5
74	Time-accurate Navier–Stokes simulation of vortex convection using an unstructured dynamic mesh procedure. Computers and Fluids, 2003, 32, 727-749.	2.5	12
75	Unstructured Mesh Navier-Stokes Calculations of the Flow Field of a Helicopter Rotor in Hover. Journal of the American Helicopter Society, 2002, 47, 90-99.	0.8	37
76	Numerical Simulation of Two-Dimensional Blade-Vortex Interactions Using Unstructured Adaptive Meshes. AIAA Journal, 2002, 40, 474-480.	2.6	56
77	Predicting Aerodynamic Rotor-Fuselage Interactions by Using Unstructured Meshes. Transactions of the Japan Society for Aeronautical and Space Sciences, 2002, 44, 208-216.	0.7	17
78	Effect of Wake Adaptation on Rotor Hover Simulations Using Unstructured Meshes. Journal of Aircraft, 2001, 38, 868-877.	2.4	18
79	Simulation of three-dimensional turbulent flows on unstructured meshes. AIAA Journal, 1995, 33, 1081-1089.	2.6	13
80	Stability of Hingeless Rotors in Hover Using Three–Dimensional Unsteady Aerodynamics. Journal of the American Helicopter Society, 1991, 36, 21-31.	0.8	23
81	Prediction and Analysis of Transitional Crossflows Using $$gamma - {ext{Re}}_{heta t} - {ext{CF}}^{ + }$$ Model. International Journal of Aeronautical and Space Sciences, 0, , .	2.0	0
82	An Angular Discretization Method Using Repulsive Particles for the Three-Dimensional Radiative Transfer Equation. International Journal of Aeronautical and Space Sciences, 0, , .	2.0	0