

Oh Joon Kwon

List of Publications by Year in descending order

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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	Predicting wind turbine blade loads and aeroelastic response using a coupled CFD-CSD method. <i>Renewable Energy</i> , 2014, 70, 184-196.	8.9	99
2	Numerical Simulation of Two-Dimensional Blade-Vortex Interactions Using Unstructured Adaptive Meshes. <i>AIAA Journal</i> , 2002, 40, 474-480.	2.6	56
3	Master Equation Study and Nonequilibrium Chemical Reactions for H + H ₂ and He + H ₂ . <i>Journal of Thermophysics and Heat Transfer</i> , 2009, 23, 443-453.	1.6	56
4	Numerical Study of Aerodynamic Performance of a Multirotor Unmanned-Aerial-Vehicle Configuration. <i>Journal of Aircraft</i> , 2015, 52, 839-846.	2.4	52
5	Simulation of Unsteady Rotor-Fuselage Aerodynamic Interaction Using Unstructured Adaptive Meshes. <i>Journal of the American Helicopter Society</i> , 2006, 51, 141-149.	0.8	46
6	Unstructured Mesh Navier-Stokes Calculations of the Flow Field of a Helicopter Rotor in Hover. <i>Journal of the American Helicopter Society</i> , 2002, 47, 90-99.	0.8	37
7	Enhancement of a Correlation-Based Transition Turbulence Model for Simulating Crossflow Instability. <i>AIAA Journal</i> , 2015, 53, 3063-3072.	2.6	36
8	Simulation of Unsteady Rotor Flow Field Using Unstructured Adaptive Sliding Meshes. <i>Journal of the American Helicopter Society</i> , 2004, 49, 391-400.	0.8	31
9	Master Equation Study and Nonequilibrium Chemical Reactions for Hydrogen Molecule. <i>Journal of Thermophysics and Heat Transfer</i> , 2010, 24, 281-290.	1.6	27
10	Performance improvement of horizontal axis wind turbines by aerodynamic shape optimization including aeroelastic deformation. <i>Renewable Energy</i> , 2020, 147, 2128-2140.	8.9	26
11	Numerical investigation of a pump-jet with ring rotor using an unstructured mesh technique. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 2897-2904.	1.5	24
12	Stability of Hingeless Rotors in Hover Using Three-Dimensional Unsteady Aerodynamics. <i>Journal of the American Helicopter Society</i> , 1991, 36, 21-31.	0.8	23
13	Aerodynamic Shape Optimization of Hovering Rotor Blades in Transonic Flow Using Unstructured Meshes. <i>AIAA Journal</i> , 2006, 44, 1816-1825.	2.6	23
14	Assessment of S-76 rotor hover performance in ground effect using an unstructured mixed mesh method. <i>Aerospace Science and Technology</i> , 2019, 84, 223-236.	4.8	23
15	Assessment of Rotor Aerodynamic Performances in Hover Using an Unstructured Mixed Mesh Method. , 2014, , .		22
16	Numerical investigation of unsteady aerodynamics of a Horizontal-axis wind turbine under yawed flow conditions. <i>Wind Energy</i> , 2013, 16, 711-727.	4.2	21
17	Infrared radiation modeling of NO, OH, CO, H ₂ O, and CO ₂ for emissivity/radiance prediction at high temperature. <i>Infrared Physics and Technology</i> , 2014, 67, 283-291.	2.9	21
18	A parallel unstructured dynamic mesh adaptation algorithm for 3-D unsteady flows. <i>International Journal for Numerical Methods in Fluids</i> , 2005, 48, 671-690.	1.6	19

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19	Effect of Wake Adaptation on Rotor Hover Simulations Using Unstructured Meshes. <i>Journal of Aircraft</i> , 2001, 38, 868-877.	2.4	18
20	Numerical investigation of cavitating flows for marine propulsors using an unstructured mesh technique. <i>International Journal of Heat and Fluid Flow</i> , 2013, 43, 259-267.	2.4	18
21	Recent Improvement of a Correlation-Based Transition Model for Simulating Three-Dimensional Boundary Layers. <i>AIAA Journal</i> , 2017, 55, 2103-2108.	2.6	18
22	Electronic-state-resolved analysis of high-enthalpy air plasma flows. <i>Physical Review E</i> , 2019, 100, 033203.	2.1	18
23	Predicting Aerodynamic Rotor-Fuselage Interactions by Using Unstructured Meshes. <i>Transactions of the Japan Society for Aeronautical and Space Sciences</i> , 2002, 44, 208-216.	0.7	17
24	Blending of SAS and correlation-based transition models for flow simulation at supercritical Reynolds numbers. <i>Computers and Fluids</i> , 2013, 80, 63-70.	2.5	15
25	Simulation of three-dimensional turbulent flows on unstructured meshes. <i>AIAA Journal</i> , 1995, 33, 1081-1089.	2.6	13
26	Numerical Simulation of Horizontal Axis Wind Turbines with Vortex Generators. <i>International Journal of Aeronautical and Space Sciences</i> , 2019, 20, 325-334.	2.0	13
27	Time-accurate Navier–Stokes simulation of vortex convection using an unstructured dynamic mesh procedure. <i>Computers and Fluids</i> , 2003, 32, 727-749.	2.5	12
28	Modification and expansion of the generalized soft-sphere model to high temperature based on collision integrals. <i>Physics of Fluids</i> , 2008, 20, .	4.0	12
29	Stagnation-point heating of Fire II with a non-Boltzmann radiation model. <i>International Journal of Heat and Mass Transfer</i> , 2020, 153, 119566.	4.8	12
30	A parallel cell-based DSMC method on unstructured adaptive meshes. <i>International Journal for Numerical Methods in Fluids</i> , 2004, 44, 1317-1335.	1.6	11
31	Temperature determination in a shock tube using hydroxyl radical A-X band emission. <i>Physics of Fluids</i> , 2019, 31, 026109.	4.0	11
32	Modeling of incomplete combustion in a scramjet engine. <i>Aerospace Science and Technology</i> , 2018, 78, 397-402.	4.8	10
33	Enhancement of wind turbine aerodynamic performance by a numerical optimization technique. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 455-462.	1.5	9
34	Numerical investigation of prop-rotor and tail-wing aerodynamic interference for a tilt-rotor UAV configuration. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 2609-2617.	1.5	9
35	Aeroelastic Analysis of High-Aspect-Ratio Wings Using a Coupled CFD-CSD Method. <i>Transactions of the Japan Society for Aeronautical and Space Sciences</i> , 2016, 59, 123-133.	0.7	9
36	Prediction of Surficial Pressure Loading for an Underwater Projectile Using CFD-Based Database. <i>International Journal of Aeronautical and Space Sciences</i> , 2018, 19, 618-625.	2.0	9

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37	Numerical Study about Aerodynamic Interaction for Coaxial Rotor Blades. International Journal of Aeronautical and Space Sciences, 2021, 22, 277-286.	2.0	9
38	Assessment of implicit operators for the upwind point Gauss-Seidel method on unstructured meshes. Computers and Fluids, 2007, 36, 1335-1346.	2.5	8
39	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
40	Numerical Simulation of Free-Flight Rockets Air-Launched From a Helicopter. Journal of Aircraft, 2011, 48, 1766-1775.	2.4	7
41	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
42	Effect of turbulence models on predicting HAWT rotor blade performances. Journal of Mechanical Science and Technology, 2013, 27, 3703-3711.	1.5	7
43	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
44	Aeroelastic Study for HART II Rotor Using Unstructured Mixed Meshes. International Journal of Aeronautical and Space Sciences, 2019, 20, 1-15.	2.0	7
45	Numerical Study of HVAB Rotor Using a Mixed Mesh Flow Solver. , 2021, , .		7
46	Experimental study of shock tunnel flow with a stationary throat plug. Shock Waves, 2012, 22, 295-305.	1.9	6
47	An efficient and robust implicit operator for upwind point Gauss-Seidel method. Journal of Computational Physics, 2007, 224, 1124-1144.	3.8	5
48	Effect of Platform Motion on Aerodynamic Performance and Aeroelastic Behavior of Floating Offshore Wind Turbine Blades. Energies, 2019, 12, 2519.	3.1	5
49	Temperature measurement of carbon dioxide using emission spectroscopy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 260, 107463.	2.3	5
50	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
51	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
52	A Conservative Overset Mesh Scheme via Intergrid Boundary Reconnection on Unstructured Meshes. , 2009, , .		3
53	Viscous Flow Simulation of Rotor Blades with Tip Slots in Hover. Journal of the American Helicopter Society, 2009, 54, 12006-120069.	0.8	3
54	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

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55	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
56	Numerical Simulation of Supersonic Inlet Flow with Movable Cowl. Journal of Propulsion and Power, 2015, 31, 1470-1473.	2.2	3
57	Numerical Study of Isolated and Full Configuration PSP Rotor Using a Mixed Mesh Flow Solver. , 2020, , .		3
58	Numerical simulation of transitional flows using a blended IDDES and correlation-based transition model. Computers and Fluids, 2021, 222, 104916.	2.5	3
59	Numerical investigation of effect of crossflow transition on rotor blade performance in hover. Aerospace Science and Technology, 2021, 114, 106733.	4.8	3
60	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
61	Experimental and Numerical Study of Stationary Throat Plug in Shock Tunnel. Journal of Thermophysics and Heat Transfer, 2015, 29, 482-495.	1.6	2
62	Numerical study of effects of accommodation coefficients on slip phenomena. Journal of Mechanical Science and Technology, 2015, 29, 1883-1888.	1.5	2
63	Experimental study of moving throat plug in a shock tunnel. Shock Waves, 2015, 25, 431-442.	1.9	2
64	Numerical Simulation about Mixing Characteristics of an Inlet-Fueled Scramjet Engine. , 2017, , .		1
65	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
66	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
67	A Parallel Unstructured Overset Mesh Technique for Unsteady Flow Simulations. , 2009, , 317-322.		1
68	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
69	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
70	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
71	Non-equilibrium Rotation-Vibration Transitions and Chemical Reactions in H+H[sub 2] and He+H[sub 2]. , 2008, , .		0
72	State-to-State Transition and Non-Equilibrium Chemical Reaction in Direct Simulation Monte Carlo Method. , 2010, , .		0

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73	Numerical simulation of heat transfer flows by a direct solution of generalized kinetic models. Computers and Fluids, 2018, 164, 114-118.	2.5	0
74	Prediction of Stagnation-Point Radiative Heating for FIRE II. , 2019, , 957-966.		0
75	Numerical Study of PSP Rotor Blades using a $\hat{t}^3-Re_{\hat{t}} - CF^{sup}+$ Turbulent Transition Model. , 2019, , .		0
76	Master Equation Analysis and Rotational Relaxation Time for N_2-N_2 . , 2020, , .		0
77	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
78	Experimental Study of Moving Throat Plug in a Shock Tunnel. , 2015, , 415-420.		0
79	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
80	Prediction and Analysis of Transitional Crossflows Using $\gamma - Re_{\theta} - CF^+ $ Model. International Journal of Aeronautical and Space Sciences, 0, , .	2.0	0
81	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
82	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