

Kyoung-Won Kim

List of Publications by Year in descending order

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75
papers

971
citations

430874

18
h-index

526287

27
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78
all docs

78
docs citations

78
times ranked

471
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiphysics mode synthesis of fluid-structure interaction with free surface. <i>Engineering With Computers</i> , 2023, 39, 2889-2904.	6.1	2
2	Mechanical properties of graphene oxide-silk fibroin bionanofilms via nanoindentation experiments and finite element analysis. <i>Friction</i> , 2022, 10, 282-295.	6.4	8
3	Multi-fidelity meta modeling using composite neural network with online adaptive basis technique. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 388, 114258.	6.6	6
4	Optimal hybrid parameter selection for stable sequential solution of inverse heat conduction problem. <i>International Journal of Heat and Mass Transfer</i> , 2022, 183, 122076.	4.8	7
5	Special Issue on "Computational Modeling and Simulation of Solids and Structures: Recent Advances and Practical Applications". <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3660.	2.5	0
6	Virtual Thermal Sensor for Real-Time Monitoring of Electronic Packages in a Totally Enclosed System. <i>IEEE Access</i> , 2022, 10, 50589-50600.	4.2	3
7	Refining characteristic constraint modes of component mode synthesis with residual modal flexibility. <i>Mechanical Systems and Signal Processing</i> , 2022, 178, 109265.	8.0	1
8	Data-driven simulation for general-purpose multibody dynamics using Deep Neural Networks. <i>Multibody System Dynamics</i> , 2021, 51, 419-454.	2.7	17
9	A DNN-based data-driven modeling employing coarse sample data for real-time flexible multibody dynamics simulations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 373, 113480.	6.6	19
10	Accelerated Testing Method for Predicting Long-Term Properties of Carbon Fiber-Reinforced Shape Memory Polymer Composites in a Low Earth Orbit Environment. <i>Polymers</i> , 2021, 13, 1628.	4.5	11
11	An iterative scheme of flexibility-based component mode synthesis with higher-order residual modal compensation. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 3171-3190.	2.8	7
12	Statistical Analysis for Transmission Error of Gear System with Mechanical and Thermal Deformation Uncertainties. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6582.	2.5	6
13	Development of Vibro-Acoustic Virtual Sensing System for Pipeline Structure Using Digital Twin. <i>Transactions of the Korean Society of Mechanical Engineers, A</i> , 2021, 45, 805-815.	0.2	2
14	Interpolation multipoint constraints with selection criteria of degree of freedoms for flexible multibody dynamics. <i>Applied Mathematics and Computation</i> , 2021, 409, 126361.	2.2	2
15	Iterative improved reduced system method of fluid-structure interaction with free surface. <i>Journal of Sound and Vibration</i> , 2021, 514, 116445.	3.9	5
16	A DNN-based Metamodeling Techniques for Real-Time Simulations of Flexible Multibody System Dynamics. <i>Transactions of the Korean Society of Mechanical Engineers, A</i> , 2021, 45, 853-861.	0.2	0
17	Static Analysis of HSDT-Based FGM Plates Using ES-MITC3+ Elements. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 375-387.	0.6	0
18	A Parallel Approach of the Enhanced Craig-Bampton Method. <i>Mathematics</i> , 2021, 9, 3278.	2.2	3

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19	Estimation of Facial Contact Pressure Based on Finite Element Analysis. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 657-667.	0.6	4
20	Multipoint Constraints with Lagrange Multiplier for System Dynamics and Its Reduced-Order Modeling. <i>AIAA Journal</i> , 2020, 58, 385-401.	2.6	12
21	A family of Craig-Bampton methods considering residual mode compensation. <i>Applied Mathematics and Computation</i> , 2020, 369, 124822.	2.2	9
22	Iterative Coordinate Reduction Algorithm of Flexible Multibody Dynamics Using a Posteriori Eigenvalue Error Estimation. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7143.	2.5	5
23	Multiphysics model reduction of symmetric vibro-acoustic formulation with a priori error estimation criteria. <i>International Journal for Numerical Methods in Engineering</i> , 2020, 121, 5381-5404.	2.8	11
24	Triboelectric signal generation and its versatile utilization during gear-based ordinary power transmission. <i>Nano Energy</i> , 2020, 73, 104745.	16.0	32
25	Virtual Sensing System of Structural Vibration using Digital Twin. <i>Transactions of the Korean Society for Noise and Vibration Engineering</i> , 2020, 30, 149-160.	0.4	6
26	Acceleration of uncertainty propagation through Lagrange multipliers in partitioned stochastic method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 362, 112837.	6.6	2
27	Static Analysis of Sandwich Plates using ES-MITC3 Elements based on the Third-order Shear Deformation Layerwise Theory. , 2020, , .		0
28	Development of a predictive safety control algorithm using laser scanners for excavators on construction sites. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2019, 233, 2007-2029.	1.9	7
29	An efficient formulation for flexible multibody dynamics using a condensation of deformation coordinates. <i>Multibody System Dynamics</i> , 2019, 47, 293-316.	2.7	13
30	A Study of Electromagnetic Vibration Energy Harvesters: Design Optimization and Experimental Validation. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2019, 6, 779-788.	4.9	17
31	Long-term properties of carbon fiber-reinforced shape memory epoxy/polymer composites exposed to vacuum and ultraviolet radiation. <i>Smart Materials and Structures</i> , 2019, 28, 115013.	3.5	27
32	Continuous scavenging of broadband vibrations via omnipotent tandem triboelectric nanogenerators with cascade impact structure. <i>Scientific Reports</i> , 2019, 9, 8223.	3.3	47
33	Iterative Component Mode Synthesis Using a Priori and a Posteriori Criteria. <i>AIAA Journal</i> , 2019, 57, 2145-2157.	2.6	5
34	Coupled simulation of elasto-hydrodynamics and multi-flexible body dynamics in piston-lubrication system. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401989585.	1.6	9
35	Novel modal methods for transient analysis with a reduced order model based on enhanced Craig-Bampton formulation. <i>Applied Mathematics and Computation</i> , 2019, 344-345, 30-45.	2.2	5
36	Formulation of Flexibility-Based Component Mode Synthesis for Transient Analysis. <i>AIAA Journal</i> , 2019, 57, 858-869.	2.6	3

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37	A strongly coupled model reduction of vibro-acoustic interaction. Computer Methods in Applied Mechanics and Engineering, 2019, 347, 495-516.	6.6	29
38	Three-dimensional constitutive model of woven fabric-reinforced shape memory polymer composites considering thermal residual stress. Smart Materials and Structures, 2019, 28, 035023.	3.5	12
39	Performance of Multiphysics Model Reduction of Vibro-acoustic Coupled Problem. Transactions of the Korean Society for Noise and Vibration Engineering, 2019, 29, 500-510.	0.4	2
40	Effect of microscale oil penetration on mechanical and chemical properties of carbon fiber-reinforced epoxy composites. Journal of Industrial and Engineering Chemistry, 2018, 61, 112-118.	5.8	13
41	Flexible multibody dynamics using coordinate reduction improved by dynamic correction. Multibody System Dynamics, 2018, 42, 411-429.	2.7	21
42	A component mode selection method based on a consistent perturbation expansion of interface displacement. Computer Methods in Applied Mechanics and Engineering, 2018, 330, 578-597.	6.6	27
43	An experimental study of the optimal design parameters of a wind power tower used to improve the performance of vertical axis wind turbines. Advances in Mechanical Engineering, 2018, 10, 168781401879954.	1.6	2
44	A Cell-based MITC3+ Flat Shell Element for Frequency Analyses of Plates and Shells Using Substructuring Methods. , 2018, , .		0
45	Dynamic Stiffness Effect of Mechanical Components on Gear Mesh Misalignment. Applied Sciences (Switzerland), 2018, 8, 844.	2.5	9
46	An Experimental Study for Efficient Design Parameters of a Wind Power Tower. Journal of the Korean Society for Aeronautical & Space Sciences, 2018, 46, 114-123.	0.1	1
47	A general model reduction with primal assembly in structural dynamics. Computer Methods in Applied Mechanics and Engineering, 2017, 324, 1-28.	6.6	43
48	MPC-based approach to optimized steering for minimum turning radius and efficient steering of multi-axle crane. International Journal of Control, Automation and Systems, 2017, 15, 1799-1813.	2.7	11
49	A coupled dynamic loads analysis of satellites with an enhanced Craig-Bampton approach. Aerospace Science and Technology, 2017, 69, 114-122.	4.8	20
50	Numerical study to investigate the design parameters of a wind tower to improve the performance of a vertical-axis wind turbine. Advances in Mechanical Engineering, 2017, 9, 168781401774447.	1.6	8
51	Utilization of 2.5-D CFD on the Performance Prediction of Vertical Axis Wind Turbine. New & Renewable Energy, 2017, 13, 4-16.	0.4	0
52	On the computational efficiency of the error estimator for Guyan reduction. Computer Methods in Applied Mechanics and Engineering, 2016, 305, 759-776.	6.6	12
53	Mechanical analysis of carbon fiber reinforced shape memory polymer composite for self-deployable structure in space environment. , 2016, , .		1
54	Durability of carbon fiber reinforced shape memory polymer composites in space. Proceedings of SPIE, 2016, , .	0.8	1

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55	Improving the reliability of the frequency response function through semi-direct finite element model updating. Aerospace Science and Technology, 2016, 54, 59-71.	4.8	12
56	High-Fidelity Flexibility-Based Component Mode Synthesis Method with Interface Degrees of Freedom Reduction. AIAA Journal, 2016, 54, 3619-3631.	2.6	12
57	Error estimation for the automated multi-level substructuring method. International Journal for Numerical Methods in Engineering, 2016, 106, 927-950.	2.8	21
58	Evaluating Mode Selection Methods for Component Mode Synthesis. AIAA Journal, 2016, 54, 2852-2863.	2.6	34
59	A simplified error estimator for the CB method and its application to error control. Computers and Structures, 2016, 164, 53-62.	4.4	22
60	An enhanced AMLS method and its performance. Computer Methods in Applied Mechanics and Engineering, 2015, 287, 90-111.	6.6	46
61	An enhanced Craig-Bampton method. International Journal for Numerical Methods in Engineering, 2015, 103, 79-93.	2.8	103
62	Hydroelastic analysis of floating structures with liquid tanks and comparison with experimental tests. Applied Ocean Research, 2015, 52, 167-187.	4.1	12
63	Toward Modular Analysis of Supramolecular Protein Assemblies. Journal of Chemical Theory and Computation, 2015, 11, 4260-4272.	5.3	13
64	Posteriori Error Estimation Method for Flexibility-Based Component Mode Synthesis. AIAA Journal, 2015, 53, 2828-2837.	2.6	10
65	A MODE SELECTION ALGORITHM FOR THE FLEXIBILITY-BASED COMPONENT MODE SYNTHESIS. , 2015, , .		4
66	Numerical Analysis on the Performance of Vertical Axis Wind Turbine Affected by the Configuration of the Wind Power Tower. New & Renewable Energy, 2015, 11, 17.	0.4	2
67	A new block assembly method for shipbuilding at sea. Structural Engineering and Mechanics, 2015, 54, 999-1016.	1.0	1
68	An accurate error estimator for Guyan reduction. Computer Methods in Applied Mechanics and Engineering, 2014, 278, 1-19.	6.6	23
69	Hydroelastic design contour for the preliminary design of very large floating structures. Ocean Engineering, 2014, 78, 112-123.	4.3	29
70	Estimating relative eigenvalue errors in the Craig-Bampton method. Computers and Structures, 2014, 139, 54-64.	4.4	36
71	A Mode Selection Criterion Based on Flexibility Approach in Component Mode Synthesis. , 2012, , .		13
72	Finite Element Analysis of Concrete Railway Sleeper Damaged by Freezing Force of Water Penetrated into the Inserts. Journal of the Korean Society for Railway, 2011, 14, 240-247.	0.1	0

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73	Fabrication of LiCoO ₂ thin films by sol-gel method and characterisation as positive electrodes for Li/LiCoO ₂ cells. Journal of Power Sources, 2001, 99, 34-40.	7.8	37
74	A study on the capacity loss with cycling in Li/LiMn ₂ O ₄ cell. Materials Letters, 1999, 39, 133-137.	2.6	10
75	Toward Optimizing Resonance for Enhanced Triboelectrification of Oscillating Triboelectric Nanogenerators. International Journal of Precision Engineering and Manufacturing - Green Technology, 0, , .	4.9	6