

Kyoung-Won Kim

List of Publications by Year in descending order

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75
papers

971
citations

430874

18
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526287

27
g-index

78
all docs

78
docs citations

78
times ranked

471
citing authors

#	ARTICLE	IF	CITATIONS
1	An enhanced Craig-Bampton method. International Journal for Numerical Methods in Engineering, 2015, 103, 79-93.	2.8	103
2	Continuous scavenging of broadband vibrations via omnipotent tandem triboelectric nanogenerators with cascade impact structure. Scientific Reports, 2019, 9, 8223.	3.3	47
3	An enhanced AMLS method and its performance. Computer Methods in Applied Mechanics and Engineering, 2015, 287, 90-111.	6.6	46
4	A general model reduction with primal assembly in structural dynamics. Computer Methods in Applied Mechanics and Engineering, 2017, 324, 1-28.	6.6	43
5	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
6	Estimating relative eigenvalue errors in the Craig-Bampton method. Computers and Structures, 2014, 139, 54-64.	4.4	36
7	Evaluating Mode Selection Methods for Component Mode Synthesis. AIAA Journal, 2016, 54, 2852-2863.	2.6	34
8	Triboelectric signal generation and its versatile utilization during gear-based ordinary power transmission. Nano Energy, 2020, 73, 104745.	16.0	32
9	Hydroelastic design contour for the preliminary design of very large floating structures. Ocean Engineering, 2014, 78, 112-123.	4.3	29
10	A strongly coupled model reduction of vibro-acoustic interaction. Computer Methods in Applied Mechanics and Engineering, 2019, 347, 495-516.	6.6	29
11	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
12	Long-term properties of carbon fiber-reinforced shape memory epoxy/polymer composites exposed to vacuum and ultraviolet radiation. Smart Materials and Structures, 2019, 28, 115013.	3.5	27
13	An accurate error estimator for Guyan reduction. Computer Methods in Applied Mechanics and Engineering, 2014, 278, 1-19.	6.6	23
14	A simplified error estimator for the CB method and its application to error control. Computers and Structures, 2016, 164, 53-62.	4.4	22
15	Error estimation for the automated multi-level substructuring method. International Journal for Numerical Methods in Engineering, 2016, 106, 927-950.	2.8	21
16	Flexible multibody dynamics using coordinate reduction improved by dynamic correction. Multibody System Dynamics, 2018, 42, 411-429.	2.7	21
17	A coupled dynamic loads analysis of satellites with an enhanced Craig-Bampton approach. Aerospace Science and Technology, 2017, 69, 114-122.	4.8	20
18	A DNN-based data-driven modeling employing coarse sample data for real-time flexible multibody dynamics simulations. Computer Methods in Applied Mechanics and Engineering, 2021, 373, 113480.	6.6	19

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19	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
20	Data-driven simulation for general-purpose multibody dynamics using Deep Neural Networks. <i>Multibody System Dynamics</i> , 2021, 51, 419-454.	2.7	17
21	A Mode Selection Criterion Based on Flexibility Approach in Component Mode Synthesis. , 2012, , .		13
22	Toward Modular Analysis of Supramolecular Protein Assemblies. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 4260-4272.	5.3	13
23	Effect of microscale oil penetration on mechanical and chemical properties of carbon fiber-reinforced epoxy composites. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 61, 112-118.	5.8	13
24	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
25	Hydroelastic analysis of floating structures with liquid tanks and comparison with experimental tests. <i>Applied Ocean Research</i> , 2015, 52, 167-187.	4.1	12
26	On the computational efficiency of the error estimator for Guyan reduction. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 305, 759-776.	6.6	12
27	Improving the reliability of the frequency response function through semi-direct finite element model updating. <i>Aerospace Science and Technology</i> , 2016, 54, 59-71.	4.8	12
28	High-Fidelity Flexibility-Based Component Mode Synthesis Method with Interface Degrees of Freedom Reduction. <i>AIAA Journal</i> , 2016, 54, 3619-3631.	2.6	12
29	Three-dimensional constitutive model of woven fabric-reinforced shape memory polymer composites considering thermal residual stress. <i>Smart Materials and Structures</i> , 2019, 28, 035023.	3.5	12
30	Multipoint Constraints with Lagrange Multiplier for System Dynamics and Its Reduced-Order Modeling. <i>AIAA Journal</i> , 2020, 58, 385-401.	2.6	12
31	MPC-based approach to optimized steering for minimum turning radius and efficient steering of multi-axle crane. <i>International Journal of Control, Automation and Systems</i> , 2017, 15, 1799-1813.	2.7	11
32	Multiphysics model reduction of symmetric vibroacoustic formulation with a priori error estimation criteria. <i>International Journal for Numerical Methods in Engineering</i> , 2020, 121, 5381-5404.	2.8	11
33	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
34	A study on the capacity loss with cycling in Li/LixMn2O4 cell. <i>Materials Letters</i> , 1999, 39, 133-137.	2.6	10
35	Posteriori Error Estimation Method for Flexibility-Based Component Mode Synthesis. <i>AIAA Journal</i> , 2015, 53, 2828-2837.	2.6	10
36	Dynamic Stiffness Effect of Mechanical Components on Gear Mesh Misalignment. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 844.	2.5	9

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37	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
38	A family of Craig-Bampton methods considering residual mode compensation. <i>Applied Mathematics and Computation</i> , 2020, 369, 124822.	2.2	9
39	Numerical study to investigate the design parameters of a wind tower to improve the performance of a vertical-axis wind turbine. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401774447.	1.6	8
40	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
41	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
42	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
43	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
44	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
45	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
46	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
47	Toward Optimizing Resonance for Enhanced Triboelectrification of Oscillating Triboelectric Nanogenerators. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 0, , .	4.9	6
48	Iterative Component Mode Synthesis Using a Priori and a Posteriori Criteria. <i>AIAA Journal</i> , 2019, 57, 2145-2157.	2.6	5
49	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
50	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
51	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
52	Estimation of Facial Contact Pressure Based on Finite Element Analysis. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 657-667.	0.6	4
53	A MODE SELECTION ALGORITHM FOR THE FLEXIBILITY-BASED COMPONENT MODE SYNTHESIS. , 2015, , .		4
54	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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55	A Parallel Approach of the Enhanced Craig-Bampton Method. Mathematics, 2021, 9, 3278.	2.2	3
56	Virtual Thermal Sensor for Real-Time Monitoring of Electronic Packages in a Totally Enclosed System. IEEE Access, 2022, 10, 50589-50600.	4.2	3
57	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
58	Development of Vibro-Acoustic Virtual Sensing System for Pipeline Structure Using Digital Twin. Transactions of the Korean Society of Mechanical Engineers, A, 2021, 45, 805-815.	0.2	2
59	Interpolation multipoint constraints with selection criteria of degree of freedoms for flexible multibody dynamics. Applied Mathematics and Computation, 2021, 409, 126361.	2.2	2
60	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
61	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
62	Acceleration of uncertainty propagation through Lagrange multipliers in partitioned stochastic method. Computer Methods in Applied Mechanics and Engineering, 2020, 362, 112837.	6.6	2
63	Multiphysics mode synthesis of fluid-structure interaction with free surface. Engineering With Computers, 2023, 39, 2889-2904.	6.1	2
64	Mechanical analysis of carbon fiber reinforced shape memory polymer composite for self-deployable structure in space environment. , 2016, , .		1
65	Durability of carbon fiber reinforced shape memory polymer composites in space. Proceedings of SPIE, 2016, , .	0.8	1
66	A new block assembly method for shipbuilding at sea. Structural Engineering and Mechanics, 2015, 54, 999-1016.	1.0	1
67	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
68	Refining characteristic constraint modes of component mode synthesis with residual modal flexibility. Mechanical Systems and Signal Processing, 2022, 178, 109265.	8.0	1
69	A Cell-based MITC3+ Flat Shell Element for Frequency Analyses of Plates and Shells Using Substructuring Methods. , 2018, , .		0
70	A DNN-based Metamodeling Techniques for Real-Time Simulations of Flexible Multibody System Dynamics. Transactions of the Korean Society of Mechanical Engineers, A, 2021, 45, 853-861.	0.2	0
71	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
72	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

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73	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
74	Static Analysis of Sandwich Plates using ES-MITC3 Elements based on the Third-order Shear Deformation Layerwise Theory. , 2020, , .		0
75	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