# Seongmin Chang

## List of Publications by Year
in descending order

| | | | |
|---|---|---|---|
| 20<br>papers | 408<br>citations | 1040056<br>9<br>h-index | 940533<br>16<br>g-index |
| 20<br>all docs | 20<br>docs citations | 20<br>times ranked | 281<br>citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Component model synthesis using model updating with neural networks. Mechanics of Advanced Materials and Structures, 2023, 30, 400-411. | 2.6 | 3 |
| 2 | 3D-based equivalent model of SMART control rod drive mechanism using dynamic condensation method. Nuclear Engineering and Technology, 2022, 54, 1109-1114. | 2.3 | 2 |
| 3 | Surrogate Model Considering Trim Condition for Design Optimization of High-Aspect-Ratio Flexible Wing. International Journal of Aeronautical and Space Sciences, 2022, 23, 288-302. | 2.0 | 3 |
| 4 | Dynamic-Condensation-Based Reanalysis by Using the Sherman–Morrison–Woodbury Formula. AIAA Journal, 2021, 59, 905-911. | 2.6 | 9 |
| 5 | Efficient Model Updating Method for System Identification Using a Convolutional Neural Network. AIAA Journal, 2021, 59, 3480-3489. | 2.6 | 8 |
| 6 | Iterative improved reduced system method of fluid-structure interaction with free surface. Journal of Sound and Vibration, 2021, 514, 116445. | 3.9 | 5 |
| 7 | Reduction method based structural model updating method via neural networks. , 2020, , . |  | 4 |
| 8 | Structural-System Identification via a Reduced System and the Sensor-Location Selection Method. AIAA Journal, 2019, 57, 2100-2108. | 2.6 | 9 |
| 9 | Stochastic homogenization of nano-thickness thin films including patterned holes using structural perturbation method. Probabilistic Engineering Mechanics, 2017, 49, 1-12. | 2.7 | 1 |
| 10 | Experimental Examples for Identification of Structural Systems Using Degree of Freedom-Based Reduction Method. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 375-378. | 0.5 | 0 |
| 11 | Structural system identification using degree of freedom-based reduction method and sensor selection algorithm. , 2017, , . |  | 0 |
| 12 | Statistical multiscale homogenization approach for analyzing polymer nanocomposites that include model inherent uncertainties of molecular dynamics simulations. Composites Part B: Engineering, 2016, 87, 120-131. | 12.0 | 33 |
| 13 | Stress-diffusion coupled multiscale analysis of Si anode for Li-ion battery€. Journal of Mechanical Science and Technology, 2015, 29, 4807-4816. | 1.5 | 15 |
| 14 | Multiscale analysis of polymer nanocomposites considering hyperelasto-plastic behavior. , 2015, , . |  | 0 |
| 15 | Effect of interphase percolation on mechanical behavior of nanoparticle-reinforced polymer nanocomposite with filler agglomeration: A multiscale approach. Chemical Physics Letters, 2015, 635, 80-85. | 2.6 | 134 |
| 16 | Structural system identification using degree of freedom-based reduction and hierarchical clustering algorithm. Journal of Sound and Vibration, 2015, 346, 139-152. | 3.9 | 18 |
| 17 | Multiscale homogenization model for thermoelastic behavior of epoxy-based composites with polydisperse SiC nanoparticles. Composite Structures, 2015, 128, 342-353. | 5.8 | 26 |
| 18 | Multiscale analysis of prelithiated silicon nanowire for Li-ion battery. Computational Materials Science, 2015, 98, 99-104. | 3.0 | 29 |

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|---|---------|----|-----------| 
| 19 | Multiscale homogenization modeling for thermal transport properties of polymer nanocomposites with Kapitza thermal resistance. Polymer, 2013, 54, 1543-1554. | 3.8 | 67 |
| 20 | A study on the prediction of the mechanical properties of nanoparticulate composites using the homogenization method with the effective interface concept. International Journal for Numerical Methods in Engineering, 2011, 85, 1564-1583. | 2.8 | 42 |