

Jae Eun Kim

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/12091707/publications.pdf>

Version: 2024-02-01

25
papers

422
citations

759233

12
h-index

752698

20
g-index

25
all docs

25
docs citations

25
times ranked

416
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-physics interpolation for the topology optimization of piezoelectric systems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010, 199, 3153-3168.	6.6	54
2	Adaptive multiscale wavelet-Galerkin analysis for plane elasticity problems and its applications to multiscale topology design optimization. <i>International Journal of Solids and Structures</i> , 2003, 40, 6473-6496.	2.7	44
3	Acoustic metamaterial panel for both fluid passage and broadband soundproofing in the audible frequency range. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	42
4	Analysis of Piezoelectric Energy Harvesters of a Moderate Aspect Ratio With a Distributed Tip Mass. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2011, 133, .	1.6	38
5	An Energy conversion model for cantilevered piezoelectric vibration energy harvesters using only measurable parameters. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2015, 2, 51-57.	4.9	34
6	Multiscale Galerkin method using interpolation wavelets for two-dimensional elliptic problems in general domains. <i>International Journal for Numerical Methods in Engineering</i> , 2004, 59, 225-253.	2.8	33
7	Damage detection by the topology design formulation using modal parameters. <i>International Journal for Numerical Methods in Engineering</i> , 2007, 69, 1480-1498.	2.8	26
8	Power enhancing by reversing mode sequence in tuned mass-spring unit attached vibration energy harvester. <i>AIP Advances</i> , 2013, 3, .	1.3	21
9	Power-amplifying strategy in vibration-powered energy harvesters. <i>Proceedings of SPIE</i> , 2010, , .	0.8	19
10	Coil configuration design for the Lorentz force maximization by the topology optimization method: applications to optical pickup coil design. <i>Sensors and Actuators A: Physical</i> , 2005, 121, 221-229.	4.1	17
11	An experimental method to design piezoelectric energy harvesting skin using operating deflection shapes and its application for self-powered operation of a wireless sensor network. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 1128-1137.	2.5	13
12	A note on hinge-free topology design using the special triangulation of design elements. <i>Communications in Numerical Methods in Engineering</i> , 2005, 21, 701-710.	1.3	12
13	Mathematical Model Development, Experimental Validation and Design Parameter Study of A Folded Two-Degree-of-Freedom Piezoelectric Vibration Energy Harvester. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2019, 6, 893-906.	4.9	11
14	Filtering technique to control member size in topology design optimization. <i>Journal of Mechanical Science and Technology</i> , 2004, 18, 253-261.	0.4	9
15	On the equivalent mass-spring parameters and assumed mode of a cantilevered beam with a tip mass. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 1073-1078.	1.5	8
16	Topology optimization of actuator arms in hard disk drives for reducing bending resonance-induced off-tracks. <i>Structural and Multidisciplinary Optimization</i> , 2012, 46, 907-912.	3.5	6
17	A small-form-factor piezoelectric vibration energy harvester using a resonant frequency-down conversion. <i>AIP Advances</i> , 2014, 4, 107125.	1.3	6
18	Dedicated algorithm and software for the integrated analysis of AC and DC electrical outputs of piezoelectric vibration energy harvesters. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 4027-4036.	1.5	6

#	ARTICLE	IF	CITATIONS
19	Magnet configuration maximizing the sensitivity and linearity of a magnetic rotation sensor. <i>Sensors and Actuators A: Physical</i> , 2009, 151, 100-106.	4.1	5
20	Design of optical pickup actuator suspension plates by the topology optimization method with the additional consideration of the plate orientation. <i>Sensors and Actuators A: Physical</i> , 2005, 121, 527-534.	4.1	4
21	Performance Characteristics of Vibration Energy Harvesting Using [001] and [011]-Poled PMN-PZT Single Crystals. <i>Transactions of the Korean Society for Noise and Vibration Engineering</i> , 2014, 24, 890-897.	0.4	4
22	Two-phase optimization for the design of multiple coils. <i>IEEE Transactions on Magnetics</i> , 2005, 41, 4093-4095.	2.1	3
23	Magnetic torque maximization in a camera shutter module by the topology optimization. <i>Journal of Mechanical Science and Technology</i> , 2010, 24, 2511-2517.	1.5	3
24	New efficiency measures of energy conversion and their characterization for piezoelectric vibration energy harvesters. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 2908-2919.	2.5	2
25	On the Energy Conversion Efficiency of Piezoelectric Vibration Energy Harvesting Devices. <i>Transactions of the Korean Society of Mechanical Engineers, A</i> , 2015, 39, 499-505.	0.2	2