

Jongwon Seok

List of Publications by Year in descending order

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58
papers

1,796
citations

257429

24
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276858

41
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58
all docs

58
docs citations

58
times ranked

1308
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel piezoelectric wind energy harvester based on coupled galloping phenomena with characterization and quantification of its dynamic behavior. Energy Conversion and Management, 2022, 266, 115849.	9.2	23
2	Novel galloping-based piezoelectric energy harvester adaptable to external wind velocity. Mechanical Systems and Signal Processing, 2021, 152, 107477.	8.0	28
3	Adaptive wind energy harvester with transformable bluff body. Energy Conversion and Management, 2021, 238, 114159.	9.2	9
4	Magnetically coupled piezoelectric galloping-based energy harvester using a tandem configuration. Mechanical Systems and Signal Processing, 2021, 161, 107952.	8.0	21
5	A novel self-tuning wind energy harvester with a slidable bluff body using vortex-induced vibration. Energy Conversion and Management, 2020, 205, 112472.	9.2	56
6	Development of a novel vibro-wind galloping energy harvester with high power density incorporated with a nested bluff-body structure. Energy Conversion and Management, 2019, 197, 111880.	9.2	44
7	Development of the optimal bluff body for wind energy harvesting using the synergetic effect of coupled vortex induced vibration and galloping phenomena. International Journal of Mechanical Sciences, 2019, 156, 435-445.	6.7	90
8	Thermorheological characteristics and comparison of shape memory polymers fabricated by novel 3D printing technique. Functional Materials Letters, 2018, 11, 1850031.	1.2	3
9	Fabrication of a functionally graded and magnetically responsive shape memory polymer using a 3D printing technique and its characterization. Journal of Applied Polymer Science, 2018, 135, 45997.	2.6	37
10	Galloping-based energy harvester considering enclosure effect. AIP Advances, 2018, 8, .	1.3	12
11	Mixed-mode fatigue crack growth analysis using peridynamic approach. International Journal of Fatigue, 2017, 103, 591-603.	5.7	44
12	An accurate regenerative chatter model in the ball-end milling process that considers high feed rate and shallow axial immersion conditions. Mathematical and Computer Modelling of Dynamical Systems, 2017, 23, 453-475.	2.2	1
13	A new algorithm on the automatic TFT-LCD mura defects inspection based on an effective background reconstruction. Journal of the Society for Information Display, 2017, 25, 737-752.	2.1	21
14	Nonlinear Modeling and Dynamic Simulation Using Bifurcation and Stability Analyses of Regenerative Chatter of Ball-End Milling Process. Mathematical Problems in Engineering, 2016, 2016, 1-16.	1.1	4
15	Triple-well potential with a uniform depth: Advantageous aspects in designing a multi-stable energy harvester. Applied Physics Letters, 2016, 108, .	3.3	67
16	Fatigue crack growth analysis in layered heterogeneous material systems using peridynamic approach. Composite Structures, 2016, 152, 403-407.	5.8	24
17	Frequency-tunable electromagnetic energy harvester using magneto-rheological elastomer. Journal of Intelligent Material Systems and Structures, 2016, 27, 959-979.	2.5	13
18	Modeling and parameter optimization for cutting energy reduction in MQL milling process. International Journal of Precision Engineering and Manufacturing - Green Technology, 2016, 3, 5-12.	4.9	83

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19	Nonlinear dynamic analyses on a magnetopiezoelectric energy harvester with reversible hysteresis. <i>Nonlinear Dynamics</i> , 2016, 83, 1823-1854.	5.2	26
20	Special issue on environmentally conscious technologies in mechanical engineering. <i>Advances in Mechanical Engineering</i> , 2015, 7, 168781401558542.	1.6	0
21	AERODYNAMIC EFFECT OF 3D PATTERN ON AIRFOIL. <i>Transactions of the Canadian Society for Mechanical Engineering</i> , 2015, 39, 537-545.	0.8	1
22	Design, Simulation, and Optimization of a Frequency-Tunable Vibration Energy Harvester That Uses a Magnetorheological Elastomer. <i>Advances in Mechanical Engineering</i> , 2015, 7, 147421.	1.6	11
23	Nonlinear dynamic and energetic characteristics of piezoelectric energy harvester with two rotatable external magnets. <i>International Journal of Mechanical Sciences</i> , 2015, 92, 206-222.	6.7	60
24	Dynamic modeling and simulation of a nonlinear, non-autonomous grinding system considering spatially periodic waviness on workpiece surface. <i>Simulation Modelling Practice and Theory</i> , 2015, 57, 88-99.	3.8	7
25	Lubrication characteristics of a textured porous sliding bearing. <i>Advances in Mechanical Engineering</i> , 2015, 7, 168781401557361.	1.6	4
26	A method to fabricate Low-Cost and large area vitreous carbon mold for glass molded microstructures. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 287-291.	2.2	33
27	Dynamic and energetic characteristics of a tri-stable magnetopiezoelectric energy harvester. <i>Mechanism and Machine Theory</i> , 2015, 94, 41-63.	4.5	79
28	Design and fabrication of cost-effective side-stem micromechanical disk resonator with large capacitive gap. <i>Electronics Letters</i> , 2014, 50, 764-766.	1.0	0
29	Analysis of a viscoplastic flow with field-dependent yield stress and wall slip boundary conditions for a magnetorheological (MR) fluid. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2014, 204, 72-86.	2.4	13
30	A multi-stable energy harvester: Dynamic modeling and bifurcation analysis. <i>Journal of Sound and Vibration</i> , 2014, 333, 5525-5547.	3.9	153
31	Stability and bifurcation analyses of chatter vibrations in a nonlinear cylindrical traverse grinding process. <i>Journal of Sound and Vibration</i> , 2013, 332, 3879-3896.	3.9	22
32	Development of low-cost and large-area nanopatterned vitreous carbon stamp for glass nanoreplication. , 2012, , .		0
33	Bifurcation analysis on a turning system with large and state-dependent time delay. <i>Journal of Sound and Vibration</i> , 2012, 331, 5562-5580.	3.9	17
34	Resonant behaviors of a nonlinear cantilever beam with tip mass subject to an axial force and electrostatic excitation. <i>International Journal of Mechanical Sciences</i> , 2012, 64, 232-257.	6.7	47
35	Bifurcation analyses on the chatter vibrations of a turning process with state-dependent delay. <i>Nonlinear Dynamics</i> , 2012, 69, 891-912.	5.2	14
36	Comments on "Parametric instability of a cantilever beam with magnetic field and periodic axial load". <i>Journal of Sound and Vibration</i> , 2012, 331, 1455-1464.	3.9	5

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37	Viscoplastic flow in slightly varying channels with wall slip pertaining to a magnetorheological (MR) polishing process. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2011, 166, 972-992.	2.4	8
38	A parametric dynamic study on hunting stability of full dual-bogie railway vehicle. <i>International Journal of Precision Engineering and Manufacturing</i> , 2011, 12, 505-519.	2.2	26
39	A behavior model of a magnetorheological fluid in direct shear mode. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 1324-1329.	2.3	32
40	Bifurcation analysis on the hunting behavior of a dual-bogie railway vehicle using the method of multiple scales. <i>Journal of Sound and Vibration</i> , 2010, 329, 4017-4039.	3.9	27
41	An electrochemomechanical polishing process using magnetorheological fluid. <i>International Journal of Machine Tools and Manufacture</i> , 2010, 50, 869-881.	13.4	36
42	Piezoelectricity of a Microcellular Polypropylene Electret under an External Inertial Load. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 031402.	1.5	2
43	A behavioral model of axisymmetrically configured magnetorheological fluid using Lekner summation. <i>Journal of Applied Physics</i> , 2009, 105, 07D518.	2.5	1
44	Tribological Properties of a Magnetorheological (MR) Fluid in a Finishing Process. <i>Tribology Transactions</i> , 2009, 52, 460-469.	2.0	36
45	A 3D model for magnetorheological fluid that considers neighboring particle interactions in 2D skewed magnetic fields. <i>International Journal of Precision Engineering and Manufacturing</i> , 2009, 10, 115-118.	2.2	8
46	Characterization and parameter optimization of a microcellular polypropylene electret under an external inertial load. <i>International Journal of Precision Engineering and Manufacturing</i> , 2009, 10, 97-106.	2.2	6
47	Energy consumption reduction technology in manufacturing " A selective review of policies, standards, and research. <i>International Journal of Precision Engineering and Manufacturing</i> , 2009, 10, 151-173.	2.2	209
48	Magnetorheological finishing process for hard materials using sintered iron-CNT compound abrasives. <i>International Journal of Machine Tools and Manufacture</i> , 2009, 49, 407-418.	13.4	68
49	An integrated material removal model for silicon dioxide layers in chemical mechanical polishing processes. <i>Wear</i> , 2009, 266, 839-849.	3.1	53
50	Behavioral model for magnetorheological fluid under a magnetic field using Lekner summation method. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 1167-1176.	2.3	20
51	Parametric Study of a Magnetorheological Fluid in a Finishing Process for Hard Materials. , 2008, , .		1
52	A study on the fabrication of curved surfaces using magnetorheological fluid finishing. <i>International Journal of Machine Tools and Manufacture</i> , 2007, 47, 2077-2090.	13.4	73
53	Dynamic characteristics of a beam angular-rate sensor. <i>International Journal of Mechanical Sciences</i> , 2006, 48, 11-20.	6.7	13
54	An analysis of a vibratory angular-rate gyroscope using polarized piezoceramic bimorph plates. Part 1: derivation of variational equations in the absence of angular velocity. <i>Journal of Sound and Vibration</i> , 2005, 280, 263-287.	3.9	5

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55	An analysis of a vibratory angular-rate gyroscope using polarized piezoceramic bimorph plates. Part 2: solution procedure for the gyroscope with superposed angular velocity. <i>Journal of Sound and Vibration</i> , 2005, 280, 289-310.	3.9	5
56	Dispersion relations for cylindrical bending motions of polarized piezoceramic bimorph plates with two facing edges free. <i>International Journal of Solids and Structures</i> , 2005, 42, 1957-1981.	2.7	1
57	Inverse analysis of material removal data using a multiscale CMP model. <i>Microelectronic Engineering</i> , 2003, 70, 478-488.	2.4	11
58	Multiscale material removal modeling of chemical mechanical polishing. <i>Wear</i> , 2003, 254, 307-320.	3.1	83