Yoon Young Kim

List of Publications by Year
in descending order

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191 papers	4,833 citations	87723 38 h-index	143772 57 g-index
192 all docs	192 docs citations	192 times ranked	2250 citing authors

#	Article	IF	Citations
1	Non-invasive ultrasonic inspection of sludge accumulation in a pipe. Ultrasonics, 2022, 119, 106602.	2.1	6
2	Development of deep learning-based joint elements for thin-walled beam structures. Computers and Structures, 2022, 260, 106714.	2.4	4
3	Perfect transmission of elastic waves obliquely incident at solidâ€"solid interfaces. Extreme Mechanics Letters, 2022, 51, 101606.	2.0	22
4	Joint Modeling Method for Higher-order Beam-based Models of Thin-walled Frame Structures. International Journal of Mechanical Sciences, 2022, 220, 107132.	3.6	4
5	Higher-order Vlasov torsion theory for thin-walled box beams. International Journal of Mechanical Sciences, 2021, 195, 106231.	3.6	18
6	Higher-order beam bending theory for static, free vibration, and buckling analysis of thin-walled rectangular hollow section beams. Computers and Structures, 2021, 248, 106494.	2.4	7
7	Longitudinal wave steering using beam-type elastic metagratings. Mechanical Systems and Signal Processing, 2021, 156, 107688.	4.4	27
8	Elastic complementary meta-layer for ultrasound penetration through solid/liquid/gas barriers. International Journal of Mechanical Sciences, 2021, 206, 106619.	3.6	10
9	Big data approach for the simultaneous determination of the topology and end-effector location of a planar linkage mechanism. Mechanism and Machine Theory, 2021, 163, 104375.	2.7	6
10	Directional quantification of power dissipation in sound-absorbing metaporous layers. Journal of Sound and Vibration, 2021, 512, 116375.	2.1	11
11	Topology Optimization of Linkage Mechanisms Simultaneously Considering Both Kinematic and Compliance Characteristics. Journal of Mechanical Design, Transactions of the ASME, 2021, 143, .	1.7	8
12	Consistent higher-order beam theory for thin-walled box beams using recursive analysis: Edge-bending deformation under doubly symmetric loads. Engineering Structures, 2020, 206, 110129.	2.6	8
13	Topology optimization design for total sound absorption in porous media. Computer Methods in Applied Mechanics and Engineering, 2020, 360, 112723.	3.4	22
14	A novel space-constrained vehicle suspension mechanism synthesized by a systematic design process employing topology optimization. Structural and Multidisciplinary Optimization, 2020, 62, 1497-1517.	1.7	3
15	Data-driven approach for a one-dimensional thin-walled beam analysis. Computers and Structures, 2020, 231, 106207.	2.4	12
16	Non-resonant metasurface for broadband elastic wave mode splitting. Applied Physics Letters, 2020, 116, .	1.5	42
17	Ultrasonic flow measurement using a high-efficiency longitudinal-to-shear wave mode-converting meta-slab wedge. Sensors and Actuators A: Physical, 2020, 310, 112080.	2.0	18
18	Simultaneous Shape and Topology Optimization of Planar Linkage Mechanisms Based on the Spring-Connected Rigid Block Model. Journal of Mechanical Design, Transactions of the ASME, 2020, 142, .	1.7	9

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19	Monolayer metamaterial for full mode-converting transmission of elastic waves. Applied Physics Letters, 2019, 115, .	1.5	30
20	Mathematical Model Development, Experimental Validation and Design Parameter Study of A Folded Two-Degree-of-Freedom Piezoelectric Vibration Energy Harvester. International Journal of Precision Engineering and Manufacturing - Green Technology, 2019, 6, 893-906.	2.7	11
21	Consistent higher-order beam theory for thin-walled box beams using recursive analysis: Membrane deformation under doubly symmetric loads. Engineering Structures, 2019, 197, 109430.	2.6	9
22	Topology optimization of metasurfaces for anomalous reflection of longitudinal elastic waves. Computer Methods in Applied Mechanics and Engineering, 2019, 357, 112582.	3.4	36
23	Buckling analysis of thin-walled box beams under arbitrary loads with general boundary conditions using higher-order beam theory. Journal of Mechanical Science and Technology, 2019, 33, 2289-2305.	0.7	7
24	Bi-annular shear-horizontal wave MPT tailored to generate the SH1 mode in a plate. Ultrasonics, 2019, 99, 105958.	2.1	13
25	Enhanced transduction of MPT for antisymmetric Lamb waves using a detuned resonator. Smart Materials and Structures, 2019, 28, 075035.	1.8	7
26	Analysis and design of an annular-array MPT for the efficient generation of omnidirectional shear-horizontal waves in plates. Smart Materials and Structures, 2019, 28, 075005.	1.8	10
27	Topology Optimization of Planar Gear-Linkage Mechanisms. Journal of Mechanical Design, Transactions of the ASME, 2019, 141, 0323011-3230118.	1.7	13
28	Slow-wave metamaterial open panels for efficient reduction of low-frequency sound transmission. Applied Physics Letters, 2018, 112, .	1.5	33
29	Theory for Perfect Transmodal Fabry-Perot Interferometer. Scientific Reports, 2018, 8, 69.	1.6	28
30	Topology optimization of anisotropic metamaterials tracing the target EFC and field polarization. Computer Methods in Applied Mechanics and Engineering, 2018, 333, 176-196.	3.4	11
31	Effect of the Orientation and Bending Stiffness of Nanopatterned Films on Wrinkling. Macromolecular Research, 2018, 26, 374-379.	1.0	2
32	Unified topology and joint types optimization of general planar linkage mechanisms. Structural and Multidisciplinary Optimization, 2018, 57, 1955-1983.	1.7	9
33	Omnidirectional shear horizontal wave based tomography for damage detection in a metallic plate with the compensation for the transfer functions of transducer. Ultrasonics, 2018, 88, 72-83.	2.1	14
34	Topology optimization of vehicle rear suspension mechanisms. International Journal for Numerical Methods in Engineering, 2018, 113, 1412-1433.	1.5	19
35	Finite prism method based topology optimization of beam cross section for buckling load maximization. Structural and Multidisciplinary Optimization, 2018, 57, 55-70.	1.7	8
36	Mass-stiffness substructuring of an elastic metasurface for full transmission beam steering. Journal of the Mechanics and Physics of Solids, 2018, 112, 577-593.	2.3	118

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37	One-dimensional analysis of thin-walled beams with diaphragms and its application to optimization for stiffness reinforcement. Computational Mechanics, 2018, 61, 331-349.	2.2	6
38	Synthesis of Gear-Linkage Mechanisms by Topology Optimization. , 2018, , .		0
39	Near-zero effective impedance with finite phase velocity for sensing and actuation enhancement by resonator pairing. Nature Communications, 2018, 9, 5255.	5.8	13
40	Asymptotic theory of bimodal quarter-wave impedance matching for full mode-converting transmission. Physical Review B, 2018, 98, .	1.1	23
41	Higher-order beam theory for static and vibration analysis of composite thin-walled box beam. Composite Structures, 2018, 206, 140-154.	3.1	14
42	Zero-frequency Bragg gap by spin-harnessed metamaterial. New Journal of Physics, 2018, 20, 083035.	1.2	14
43	Transmodal elastic metasurface for broad angle total mode conversion. Applied Physics Letters, 2018, 112, .	1.5	72
44	Topology optimization for the design of perfect mode-converting anisotropic elastic metamaterials. Composite Structures, 2018, 201, 161-177.	3.1	41
45	Topology optimization of planar linkage mechanisms for path generation without prescribed timing. Structural and Multidisciplinary Optimization, 2017, 56, 501-517.	1.7	18
46	Multiple slow waves in metaporous layers for broadband sound absorption. Journal Physics D: Applied Physics, 2017, 50, 015301.	1.3	63
47	Doubly negative isotropic elastic metamaterial for sub-wavelength focusing: Design and realization. Journal of Sound and Vibration, 2017, 410, 169-186.	2.1	43
48	Conical Refraction of Elastic Waves by Anisotropic Metamaterials and Application for Parallel Translation of Elastic Waves. Scientific Reports, 2017, 7, 10072.	1.6	15
49	Elastic Metamaterial Insulator for Broadband Low-Frequency Flexural Vibration Shielding. Physical Review Applied, 2017, 8, .	1.5	35
50	Off-centered Double-slit Metamaterial for Elastic Wave Polarization Anomaly. Scientific Reports, 2017, 7, 15378.	1.6	26
51	Transmodal Fabry-PÃ©rot Resonance: Theory and Realization with Elastic Metamaterials. Physical Review Letters, 2017, 118, 205901.	2.9	85
52	Higher order analysis of thin-walled beams with axially varying quadrilateral cross sections. Computers and Structures, 2017, 179, 127-139.	2.4	25
53	Extreme stiffness hyperbolic elastic metamaterial for total transmission subwavelength imaging. Scientific Reports, 2016, 6, 24026.	1.6	54
54	Effective material parameter retrieval of anisotropic elastic metamaterials with inherent nonlocality. Journal of Applied Physics, 2016, 120, .	1.1	28

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55	Adjoining of negative stiffness and negative density bands in an elastic metamaterial. Applied Physics Letters, 2016, 108, .	1.5	37
56	Characterization of anisotropic acoustic metamaterial slabs. Journal of Applied Physics, 2016, 119, .	1.1	19
57	An omnidirectional shear-horizontal guided wave EMAT for a metallic plate. Ultrasonics, 2016, 69, 58-66.	2.1	79
58	Analysis of two box beams-joint systems under in-plane bending and axial loads by one-dimensional higher-order beam theory. International Journal of Solids and Structures, 2016, 90, 69-94.	1.3	16
59	Exact matching at a joint of multiply-connected box beams under out-of-plane bending and torsion. Engineering Structures, 2016, 124, 96-112.	2.6	14
60	Effective mass density based topology optimization of locally resonant acoustic metamaterials for bandgap maximization. Journal of Sound and Vibration, 2016, 383, 89-107.	2.1	61
61	Experiments of wave cancellation with elastic phononic crystal. Ultrasonics, 2016, 72, 128-133.	2.1	10
62	Elastic metamaterials for independent realization of negativity in density and stiffness. Scientific Reports, 2016, 6, 23630.	1.6	81
63	Add-on unidirectional elastic metamaterial plate cloak. Scientific Reports, 2016, 6, 20731.	1.6	20
64	Topology optimization of thinâ€walled box beam structures based on the higherâ€order beam theory. International Journal for Numerical Methods in Engineering, 2016, 106, 576-590.	1.5	8
65	Tuned double-coil EMATs for omnidirectional symmetric mode lamb wave generation. NDT and E International, 2016, 83, 38-47.	1.7	28
66	Topology optimization of planar linkage systems involving general joint types. Mechanism and Machine Theory, 2016, 104, 130-160.	2.7	26
67	Dispersion analysis with 45Â°-rotated augmented supercells and applications in phononic crystal design. Wave Motion, 2016, 61, 63-72.	1.0	14
68	Bulk-surface relationship of an electronic structure for high-throughput screening of metal oxide catalysts. Applied Surface Science, 2016, 370, 279-290.	3.1	8
69	Generation of omni-directional shear-horizontal waves in a ferromagnetic plate by a magnetostrictive patch transducer. NDT and E International, 2016, 80, 6-14.	1.7	17
70	A direct hybrid finite elementâ€“wave based modelling technique for efficient analysis of poroelastic materials in steady-state acoustic problems. Computer Methods in Applied Mechanics and Engineering, 2016, 304, 55-80.	3.4	7
71	Guided wave scattering analysis for a plate with arbitrarily shaped elastic inclusions using the T-matrix method. Journal of Sound and Vibration, 2016, 360, 97-111.	2.1	11
72	Realization of high-performance bandpass filter by impedance-mirroring. Journal of Sound and Vibration, 2015, 355, 86-92.	2.1	12

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73	Semi-analytic formulation and its experimental verification to determine the radiation patterns of ultrasonic guided waves generated on a plate by a magnetostrictive patch transducer. Journal of Mechanical Science and Technology, 2015, 29, 5309-5316.	0.7	0
74	Multipole expansion of Greenâ€™s function for guided waves in a transversely isotropic plate. Journal of Mechanical Science and Technology, 2015, 29, 1899-1906.	0.7	4
75	Metaporous layer to overcome the thickness constraint for broadband sound absorption. Journal of Applied Physics, 2015, 117, .	1.1	70
76	Topology optimization for three-phase materials distribution in a dissipative expansion chamber by unified multiphase modelingÂapproach. Computer Methods in Applied Mechanics and Engineering, 2015, 287, 191-211.	3.4	27
77	An Energy conversion model for cantilevered piezoelectric vibration energy harvesters using only measurable parameters. International Journal of Precision Engineering and Manufacturing - Green Technology, 2015, 2, 51-57.	2.7	34
78	Elastic metamaterial-based impedance-varying phononic bandgap structures for bandpass filters. Journal of Sound and Vibration, 2015, 353, 58-74.	2.1	31
79	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. Journal of Intelligent Material Systems and Structures, 2015, 26, 1128-1137.	1.4	13
80	Maximization of operating frequency ranges of hyperbolic elastic metamaterials by topology optimization. Structural and Multidisciplinary Optimization, 2015, 52, 1023-1040.	1.7	22
81	High-frequency lowest torsional wave mode ultrasonic inspection using a necked pipe waveguide unit. Ultrasonics, 2015, 62, 237-243.	2.1	17
82	Review of magnetostrictive patch transducers and applications in ultrasonic nondestructive testing of waveguides. Ultrasonics, 2015, 62, 3-19.	2.1	211
83	Broadband sound blocking in phononic crystals with rotationally symmetric inclusions. Journal of the Acoustical Society of America, 2015, 138, EL217-EL222.	0.5	8
84	Dispersion suppression of guided elastic waves by anisotropic metamaterial. Journal of the Acoustical Society of America, 2015, 138, EL77-EL82.	0.5	11
85	Design of phononic crystals for self-collimation of elastic waves using topology optimization method. Structural and Multidisciplinary Optimization, 2015, 51, 1199-1209.	1.7	45
86	Multiple beam splitting in elastic phononic crystal plates. Ultrasonics, 2015, 56, 178-182.	2.1	17
87	Topology optimization for three-phase materials distribution in a dissipative expansion chamber by unified multiphase modeling approach. , 2015, 287, 191-191.		1
88	Topology optimization of planar linkage mechanisms. International Journal for Numerical Methods in Engineering, 2014, 98, 265-286.	1.5	31
89	A truly hyperbolic elastic metamaterial lens. Applied Physics Letters, 2014, 104, .	1.5	54
90	Waveguide tapering for beam-width control in a waveguide transducer. Ultrasonics, 2014, 54, 953-960.	2.1	13

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91	Power enhancing by reversing mode sequence in tuned mass-spring unit attached vibration energy harvester. AIP Advances, 2013, 3, .	0.6	21
92	Wave attenuation and dissipation mechanisms in viscoelastic phononic crystals. Journal of Applied Physics, 2013, 113, 106101.	1.1	20
93	Omnidirectional lamb waves by axisymmetrically-configured magnetostrictive patch transducer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1928-1934.	1.7	51
94	Non-contact modal testing by the electromagnetic acoustic principle: Applications to bending and torsional vibrations of metallic pipes. Journal of Sound and Vibration, 2013, 332, 740-751.	2.1	10
95	Development of an omni-directional shear-horizontal wave magnetostrictive patch transducer for plates. Ultrasonics, 2013, 53, 1304-1308.	2.1	64
96	Noncontact flexural vibration modal testing of metallic cylinders using the electromagnetic acoustic coupling principle. , 2013, , .		0
97	Exact Matching Condition at a Joint of Thin-Walled Box Beams Under Out-of-Plane Bending and Torsion. Journal of Applied Mechanics, Transactions ASME, 2012, 79, .	1.1	11
98	Inverted bi-prism phononic crystals for one-sided elastic wave transmission applications. Applied Physics Letters, 2012, 100, .	1.5	34
99	Unified multiphase modeling for evolving, acoustically coupled systems consisting of acoustic, elastic, poroelastic media and septa. Journal of Sound and Vibration, 2012, 331, 5518-5536.	2.1	17
100	Analysis of Thin-Walled Straight Beams with Generally Shaped Closed Sections Using Numerically Determined Sectional Deformation Functions. Journal of Structural Engineering, 2012, 138, 1427-1435.	1.7	17
101	The Spring-Connected Rigid Block Model Based Automatic Synthesis of Planar Linkage Mechanisms: Numerical Issues and Remedies. Journal of Mechanical Design, Transactions of the ASME, 2012, 134, .	1.7	14
102	Mobile robot path planning algorithm by equivalent conduction heat flow topology optimization. Structural and Multidisciplinary Optimization, 2012, 45, 703-715.	1.7	15
103	Analysis of internal wave reflection within a magnetostrictive patch transducer for high-frequency guided torsional waves. Ultrasonics, 2011, 51, 647-652.	2.1	28
104	Simultaneous two-axis vibration measurement of a nonmetallic cylinder by electromagnetic induction and metallic foil loops. Journal of Mechanical Science and Technology, 2011, 25, 1925-1931.	0.7	0
105	Theoretical analysis of coupled torsional, warping and distortional waves in a straight thin-walled box beam by higher-order beam theory. Journal of Sound and Vibration, 2011, 330, 3024-3039.	2.1	5
106	Negative refraction experiments with guided shear-horizontal waves in thin phononic crystal plates. Applied Physics Letters, 2011, 98, 011909.	1.5	43
107	Mode separation of a single-frequency bi-modal elastic wave pulse by a phononic crystal. Applied Physics Letters, 2011, 99, 201906.	1.5	6
108	Far-field subwavelength imaging for ultrasonic elastic waves in a plate using an elastic hyperlens. Applied Physics Letters, 2011, 98, .	1.5	36

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109	Megahertz-range guided pure torsional wave transduction and experiments using a magnetostrictive transducer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 1225-1229.	1.7	37
110	Method to suppress higher modes of the guided torsional wave for sending the non-dispersive mode through a pipe. , 2010, , .		0
111	An SH wave magnetostrictive patch transducer for ultrasonic inspection of a plate-like structures. , 2010, , .		2
112	Nonferromagnetic material inserted magnetostrictive patch bonding technique for torsional modal testing of a ferromagnetic cylinder. Review of Scientific Instruments, 2010, 81, 035103.	0.6	5
113	Feasibility study of a membrane-type magnetostrictive acoustic transducer for ultrasonic thrombolysis. , 2009, , .		1
114	Optimization of Support Locations of Beam and Plate Structures Under Self-Weight by Using a Sprung Structure Model. Journal of Mechanical Design, Transactions of the ASME, 2009, 131, .	1.7	13
115	Beam-focused shear-horizontal wave generation in a plate by a circular magnetostrictive patch transducer employing a planar solenoid array. Smart Materials and Structures, 2009, 18, 015009.	1.8	63
116	Topology optimization of muffler internal partitions for improving acoustical attenuation performance. International Journal for Numerical Methods in Engineering, 2009, 80, 455-477.	1.5	83
117	Topology optimization with displacement-based nonconforming finite elements for incompressible materials. Journal of Mechanical Science and Technology, 2009, 23, 442-451.	0.7	14
118	Higher-order in-plane bending analysis of box beams connected at an angled joint considering cross-sectional bending warping and distortion. Thin-Walled Structures, 2009, 47, 1478-1489.	2.7	17
119	Vibration analysis of piecewise straight thin-walled box beams without using artificial joint springs. Journal of Sound and Vibration, 2009, 326, 647-670.	2.1	15
120	Magnet configuration maximizing the sensitivity and linearity of a magnetic rotation sensor. Sensors and Actuators A: Physical, 2009, 151, 100-106.	2.0	5
121	Rigid body modeling issue in acoustical topology optimization. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 1017-1030.	3.4	23
122	Optimal distribution of holes in a partition interfacing two cavities for controlling the eigenfrequencies by acoustical topology optimization. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 2175-2189.	3.4	8
123	Design Optimization of Compliant Mechanisms Consisting of Standardized Elements. Journal of Mechanical Design, Transactions of the ASME, 2009, 131, .	1.7	5
124	Unified Multi-Phase Modeling and Topology Optimization for Complex Vibro-Acoustic Systems consisting of Acoustic, Elastic and Poroelastic Media. The Proceedings of the Computational Mechanics Conference, 2009, 2009.22, _-1_-_-2_.	0.0	0
125	Integrated topology and shape optimization software for compliant MEMS mechanism design. Advances in Engineering Software, 2008, 39, 1-14.	1.8	28
126	Dynamic analysis of a linear motion guide having rolling elements for precision positioning devices. Journal of Mechanical Science and Technology, 2008, 22, 50-60.	0.7	49

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127	Magnetic circuit design by topology optimization for Lorentz force maximization in a microspeaker. Journal of Mechanical Science and Technology, 2008, 22, 1699-1706.	0.7	8
128	Sub-workspace design of binary manipulators using active and passive joints. Journal of Mechanical Science and Technology, 2008, 22, 1707-1715.	0.7	3
129	Multiscale multiresolution genetic algorithm with a golden sectioned population composition. International Journal for Numerical Methods in Engineering, 2008, 74, 349-367.	1.5	12
130	Higherâ€order beam analysis of box beams connected at angled joints subject to outâ€ofâ€plane bending and torsion. International Journal for Numerical Methods in Engineering, 2008, 75, 1361-1384.	1.5	20
131	Theoretical aspects of the internal element connectivity parameterization approach for topology optimization. International Journal for Numerical Methods in Engineering, 2008, 76, 775-797.	1.5	11
132	Minimum scale controlled topology optimization and experimental test of a micro thermal actuator. Sensors and Actuators A: Physical, 2008, 141, 603-609.	2.0	9
133	Stacked-Element Connectivity Parameterization for Topology Optimization of Nonlinear Magnetic Systems. IEEE Transactions on Magnetics, 2008, 44, 4754-4763.	1.2	2
134	Two-dimensional poroelastic acoustical foam shape design for absorption coefficient maximization by topology optimization method. Journal of the Acoustical Society of America, 2008, 123, 2094-2106.	0.5	42
135	Application of a Ground Beam-Joint Topology Optimization Method for Multi-Piece Frame Structure Design. Journal of Mechanical Design, Transactions of the ASME, 2008, 130, .	1.7	8
136	Polarization of a permanent magnet to yield specific magnetic field distribution. Journal of Applied Physics, 2008, 104, 064915.	1.1	2
137	Automatic Synthesis of a Planar Linkage Mechanism With Revolute Joints by Using Spring-Connected Rigid Block Models. Journal of Mechanical Design, Transactions of the ASME, 2007, 129, 930-940.	1.7	38
138	Radiation pattern of Lamb waves generated by a circular magnetostrictive patch transducer. Applied Physics Letters, 2007, 90, 054102.	1.5	21
139	Optimal poroelastic layer sequencing for sound transmission loss maximization by topology optimization method. Journal of the Acoustical Society of America, 2007, 122, 2097-2106.	0.5	53
140	Optimal layout design of three-dimensional geometrically non-linear structures using the element connectivity parameterization method. International Journal for Numerical Methods in Engineering, 2007, 69, 1278-1304.	1.5	22
141	Damage detection by the topology design formulation using modal parameters. International Journal for Numerical Methods in Engineering, 2007, 69, 1480-1498.	1.5	26
142	Topology optimization of material-nonlinear continuum structures by the element connectivity parameterization. International Journal for Numerical Methods in Engineering, 2007, 69, 2196-2218.	1.5	57
143	Magnetostrictive grating with an optimal yoke for generating high-output frequency-tuned SH waves in a plate. Sensors and Actuators A: Physical, 2007, 137, 141-146.	2.0	11
144	Shear horizontal wave transduction in plates by magnetostrictive gratings. Journal of Mechanical Science and Technology, 2007, 21, 693-698.	0.7	13

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145	Guided wave transduction experiment using a circular magnetostrictive patch and a figure-of-eight coil in nonferromagnetic plates. Applied Physics Letters, 2006, 88, 224101.	1.5	49
146	Wireless frequency-tuned generation and measurement of torsional waves using magnetostrictive nickel gratings in cylinders. Sensors and Actuators A: Physical, 2006, 126, 73-77.	2.0	27
147	Implementation Strategy for the Numerical Efficiency Improvement of the Multiscale Interpolation Wavelet-Galerkin Method. Journal of Mechanical Science and Technology, 2006, 20, 110-124.	0.7	1
148	Dispersion-based continuous wavelet transform for the analysis of elastic waves. Journal of Mechanical Science and Technology, 2006, 20, 2147-2158.	0.7	2
149	Inverse kinematics of binary manipulators by using the continuous-variable-based optimization method. , 2006, 22, 33-42.		18
150	Magnetic sensor for the noncontact measurement of flexural vibrations of a nonferromagnetic metallic hollow cylinder. Review of Scientific Instruments, 2006, 77, 085105.	0.6	5
151	Damage size estimation by the continuous wavelet ridge analysis of dispersive bending waves in a beam. Journal of Sound and Vibration, 2005, 287, 707-722.	2.1	15
152	Coil configuration design for the Lorentz force maximization by the topology optimization method: applications to optical pickup coil design. Sensors and Actuators A: Physical, 2005, 121, 221-229.	2.0	17
153	Minimum thickness control at various levels for topology optimization using the wavelet method. International Journal of Solids and Structures, 2005, 42, 5945-5970.	1.3	4
154	Two-phase optimization for the design of multiple coils. IEEE Transactions on Magnetics, 2005, 41, 4093-4095.	1.2	3
155	Triangular checkerboard control using a wavelet-based method in topology optimization. International Journal for Numerical Methods in Engineering, 2005, 63, 103-121.	1.5	6
156	Topology optimization using non-conforming finite elements: three-dimensional case. International Journal for Numerical Methods in Engineering, 2005, 63, 859-875.	1.5	26
157	The element connectivity parameterization formulation for the topology design optimization of multiphysics systems. International Journal for Numerical Methods in Engineering, 2005, 64, 1649-1677.	1.5	44
158	A note on hinge-free topology design using the special triangulation of design elements. Communications in Numerical Methods in Engineering, 2005, 21, 701-710.	1.3	12
159	The matching pursuit approach based on the modulated Gaussian pulse for efficient guided-wave damage inspection. Smart Materials and Structures, 2005, 14, 548-560.	1.8	88
160	Torsional wave experiments with a new magnetostrictive transducer configuration. Journal of the Acoustical Society of America, 2005, 117, 3459-3468.	0.5	92
161	Dispersion-based short-time Fourier transform applied to dispersive wave analysis. Journal of the Acoustical Society of America, 2005, 117, 2949-2960.	0.5	73
162	Damage Detection by the Mode-Selectable Magnetostrictive Transducer for Cylindrical Ferromagnetic Waveguides. AIP Conference Proceedings, 2004, , .	0.3	0

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163	Design of a Bias Magnetic System of a Magnetostrictive Sensor for Flexural Wave Measurement. IEEE Transactions on Magnetics, 2004, 40, 3331-3338.	1.2	15
164	Filtering technique to control member size in topology design optimization. Journal of Mechanical Science and Technology, 2004, 18, 253-261.	0.4	9
165	Multiscale Galerkin method using interpolation wavelets for two-dimensional elliptic problems in general domains. International Journal for Numerical Methods in Engineering, 2004, 59, 225-253.	1.5	33
166	Parallelized structural topology optimization for eigenvalue problems. International Journal of Solids and Structures, 2004, 41, 2623-2641.	1.3	66
167	Noncontact Damage Detection of a Rotating Shaft Using the Magnetostrictive Effect. Journal of Nondestructive Evaluation, 2003, 22, 141-150.	1.1	15
168	The role of S-Shape mapping functions in the SIMP approach for topology optimization. Journal of Mechanical Science and Technology, 2003, 17, 1496-1506.	0.4	22
169	Checkerboard-free topology optimization using non-conforming finite elements. International Journal for Numerical Methods in Engineering, 2003, 57, 1717-1735.	1.5	70
170	Significance of distortion in thin-walled closed beam section design. International Journal of Solids and Structures, 2003, 40, 633-648.	1.3	4
171	Analysis of thin-walled curved box beam under in-plane flexure. International Journal of Solids and Structures, 2003, 40, 6111-6123.	1.3	30
172	Adaptive multiscale wavelet-Galerkin analysis for plane elasticity problems and its applications to multiscale topology design optimization. International Journal of Solids and Structures, 2003, 40, 6473-6496.	1.3	44
173	Application of magnetomechanical sensors for modal testing. Journal of Sound and Vibration, 2003, 268, 799-808.	2.1	29
174	The optimal design and experimental verification of the bias magnet configuration of a magnetostrictive sensor for bending wave measurement. Sensors and Actuators A: Physical, 2003, 107, 225-232.	2.0	23
175	Hat interpolation wavelet-based multi-scale Galerkin method for thin-walled box beam analysis. International Journal for Numerical Methods in Engineering, 2002, 53, 1575-1592.	1.5	26
176	A one-dimensional theory of thin-walled curved rectangular box beams under torsion and out-of-plane bending. International Journal for Numerical Methods in Engineering, 2002, 53, 1675-1693.	1.5	29
177	New accurate efficient modeling techniques for the vibration analysis of T-joint thin-walled box structures. International Journal of Solids and Structures, 2002, 39, 2893-2909.	1.3	19
178	Field-consistent higher-order free-interface component mode synthesis. International Journal for Numerical Methods in Engineering, 2001, 50, 595-610.	1.5	5
179	Higherâ€order hybridâ€mixed axisymmetric thick shell element for vibration analysis. International Journal for Numerical Methods in Engineering, 2001, 51, 241-252.	1.5	6
180	Analytic solutions for fundamental eigenfrequencies of optical actuators in six directions of motion. International Journal of Solids and Structures, 2001, 38, 1327-1339.	1.3	7

#	Article	IF	Citations
181	Effectiveness of the continuous wavelet transform in the analysis of some dispersive elastic waves. Journal of the Acoustical Society of America, 2001, 110, 86-94.	0.5	80
182	One-dimensional analysis of thin-walled closed beams having general cross-sections. International Journal for Numerical Methods in Engineering, 2000, 49, 653-668.	1.5	44
183	Topology optimization of beam cross sections. International Journal of Solids and Structures, 2000, 37, 477-493.	1.3	72
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187	Inverse kinematics of binary manipulators by the optimization method in a continous variable space. , 0, , .		1
188	Waveguide damage detection by the matching pursuit using the gaussian chirp pulses. , 0, , .		0
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191	Wireless Frequency-Tuned Generation and Measurement of Shear Horizontal Waves Using Magnetostrictive Gratings in Plates. , 0, , .		0