Yoon Young Kim

List of Publications by Year
in descending order

191	4,833	87888 38	144013 57
papers	citations	h-index	g-index

192	192	192	2250
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Review of magnetostrictive patch transducers and applications in ultrasonic nondestructive testing of waveguides. Ultrasonics, 2015, 62, 3-19.	3.9	211
2	Mac-based mode-tracking in structural topology optimization. Computers and Structures, 2000, 74, 375-383.	4.4	144
3	Mass-stiffness substructuring of an elastic metasurface for full transmission beam steering. Journal of the Mechanics and Physics of Solids, 2018, 112, 577-593.	4.8	118
4	Multi-resolution multi-scale topology optimization â€" a new paradigm. International Journal of Solids and Structures, 2000, 37, 5529-5559.	2.7	105
5	Torsional wave experiments with a new magnetostrictive transducer configuration. Journal of the Acoustical Society of America, 2005, 117, 3459-3468.	1.1	92
6	The matching pursuit approach based on the modulated Gaussian pulse for efficient guided-wave damage inspection. Smart Materials and Structures, 2005, 14, 548-560.	3.5	88
7	Transmodal Fabry-PÃ©rot Resonance: Theory and Realization with Elastic Metamaterials. Physical Review Letters, 2017, 118, 205901.	7.8	85
8	Topology optimization of muffler internal partitions for improving acoustical attenuation performance. International Journal for Numerical Methods in Engineering, 2009, 80, 455-477.	2.8	83
9	Elastic metamaterials for independent realization of negativity in density and stiffness. Scientific Reports, 2016, 6, 23630.	3.3	81
10	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.	1.1	80
11	An omnidirectional shear-horizontal guided wave EMAT for a metallic plate. Ultrasonics, 2016, 69, 58-66.	3.9	79
12	Dispersion-based short-time Fourier transform applied to dispersive wave analysis. Journal of the Acoustical Society of America, 2005, 117, 2949-2960.	1.1	73
13	Topology optimization of beam cross sections. International Journal of Solids and Structures, 2000, 37, 477-493.	2.7	72
14	Transmodal elastic metasurface for broad angle total mode conversion. Applied Physics Letters, 2018, 112, .	3.3	72
15	Checkerboard-free topology optimization using non-conforming finite elements. International Journal for Numerical Methods in Engineering, 2003, 57, 1717-1735.	2.8	70
16	Metaporous layer to overcome the thickness constraint for broadband sound absorption. Journal of Applied Physics, 2015, 117, .	2.5	70
17	Thin-walled closed box beam element for static and dynamic analysis. International Journal for Numerical Methods in Engineering, 1999, 45, 473-490.	2.8	68
18	Parallelized structural topology optimization for eigenvalue problems. International Journal of Solids and Structures, 2004, 41, 2623-2641.	2.7	66

#	Article	IF	Citations
19	Development of an omni-directional shear-horizontal wave magnetostrictive patch transducer for plates. Ultrasonics, 2013, 53, 1304-1308.	3.9	64
20	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.	3.5	63
21	Multiple slow waves in metaporous layers for broadband sound absorption. Journal Physics D: Applied Physics, 2017, 50, 015301.	2.8	63
22	Effective mass density based topology optimization of locally resonant acoustic metamaterials for bandgap maximization. Journal of Sound and Vibration, 2016, 383, 89-107.	3.9	61
23	Topology optimization of material-nonlinear continuum structures by the element connectivity parameterization. International Journal for Numerical Methods in Engineering, 2007, 69, 2196-2218.	2.8	57
24	A truly hyperbolic elastic metamaterial lens. Applied Physics Letters, 2014, 104, .	3.3	54
25	Extreme stiffness hyperbolic elastic metamaterial for total transmission subwavelength imaging. Scientific Reports, 2016, 6, 24026.	3.3	54
26	Optimal poroelastic layer sequencing for sound transmission loss maximization by topology optimization method. Journal of the Acoustical Society of America, 2007, 122, 2097-2106.	1.1	53
27	Omnidirectional lamb waves by axisymmetrically-configured magnetostrictive patch transducer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1928-1934.	3.0	51
28	Guided wave transduction experiment using a circular magnetostrictive patch and a figure-of-eight coil in nonferromagnetic plates. Applied Physics Letters, 2006, 88, 224101.	3.3	49
29	Dynamic analysis of a linear motion guide having rolling elements for precision positioning devices. Journal of Mechanical Science and Technology, 2008, 22, 50-60.	1.5	49
30	Design of phononic crystals for self-collimation of elastic waves using topology optimization method. Structural and Multidisciplinary Optimization, 2015, 51, 1199-1209.	3.5	45
31	One-dimensional analysis of thin-walled closed beams having general cross-sections. International Journal for Numerical Methods in Engineering, 2000, 49, 653-668.	2.8	44
32	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.	2.7	44
33	The element connectivity parameterization formulation for the topology design optimization of multiphysics systems. International Journal for Numerical Methods in Engineering, 2005, 64, 1649-1677.	2.8	44
34	Negative refraction experiments with guided shear-horizontal waves in thin phononic crystal plates. Applied Physics Letters, 2011, 98, 011909.	3.3	43
35	Doubly negative isotropic elastic metamaterial for sub-wavelength focusing: Design and realization. Journal of Sound and Vibration, 2017, 410, 169-186.	3.9	43
36	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.	1.1	42

#	Article	IF	Citations
37	Non-resonant metasurface for broadband elastic wave mode splitting. Applied Physics Letters, 2020, 116, .	3.3	42
38	Topology optimization for the design of perfect mode-converting anisotropic elastic metamaterials. Composite Structures, 2018, 201, 161-177.	5.8	41
39	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.	2.9	38
40	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.	3.0	37
41	Adjoining of negative stiffness and negative density bands in an elastic metamaterial. Applied Physics Letters, 2016, 108, .	3.3	37
42	Far-field subwavelength imaging for ultrasonic elastic waves in a plate using an elastic hyperlens. Applied Physics Letters, 2011, 98, .	3.3	36
43	Topology optimization of metasurfaces for anomalous reflection of longitudinal elastic waves. Computer Methods in Applied Mechanics and Engineering, 2019, 357, 112582.	6.6	36
44	Elastic Metamaterial Insulator for Broadband Low-Frequency Flexural Vibration Shielding. Physical Review Applied, 2017, 8, .	3.8	35
45	Inverted bi-prism phononic crystals for one-sided elastic wave transmission applications. Applied Physics Letters, 2012, 100, .	3.3	34
46	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.	4.9	34
47	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.	2.8	33
48	Slow-wave metamaterial open panels for efficient reduction of low-frequency sound transmission. Applied Physics Letters, 2018, 112, .	3.3	33
49	Topology optimization of planar linkage mechanisms. International Journal for Numerical Methods in Engineering, 2014, 98, 265-286.	2.8	31
50	Elastic metamaterial-based impedance-varying phononic bandgap structures for bandpass filters. Journal of Sound and Vibration, 2015, 353, 58-74.	3.9	31
51	Analysis of thin-walled curved box beam under in-plane flexure. International Journal of Solids and Structures, 2003, 40, 6111-6123.	2.7	30
52	Monolayer metamaterial for full mode-converting transmission of elastic waves. Applied Physics Letters, 2019, 115, .	3.3	30
53	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.	2.8	29
54	Application of magnetomechanical sensors for modal testing. Journal of Sound and Vibration, 2003, 268, 799-808.	3.9	29

#	Article	IF	Citations
55	Integrated topology and shape optimization software for compliant MEMS mechanism design. Advances in Engineering Software, 2008, 39, 1-14.	3.8	28
56	Analysis of internal wave reflection within a magnetostrictive patch transducer for high-frequency guided torsional waves. Ultrasonics, 2011, 51, 647-652.	3.9	28
57	Effective material parameter retrieval of anisotropic elastic metamaterials with inherent nonlocality. Journal of Applied Physics, 2016, 120, .	2.5	28
58	Tuned double-coil EMATs for omnidirectional symmetric mode lamb wave generation. NDT and E International, 2016, 83, 38-47.	3.7	28
59	Theory for Perfect Transmodal Fabry-Perot Interferometer. Scientific Reports, 2018, 8, 69.	3.3	28
60	Wireless frequency-tuned generation and measurement of torsional waves using magnetostrictive nickel gratings in cylinders. Sensors and Actuators A: Physical, 2006, 126, 73-77.	4.1	27
61	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.	6.6	27
62	Longitudinal wave steering using beam-type elastic metagratings. Mechanical Systems and Signal Processing, 2021, 156, 107688.	8.0	27
63	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.	2.8	26
64	Topology optimization using non-conforming finite elements: three-dimensional case. International Journal for Numerical Methods in Engineering, 2005, 63, 859-875.	2.8	26
65	Damage detection by the topology design formulation using modal parameters. International Journal for Numerical Methods in Engineering, 2007, 69, 1480-1498.	2.8	26
66	Topology optimization of planar linkage systems involving general joint types. Mechanism and Machine Theory, 2016, 104, 130-160.	4.5	26
67	Off-centered Double-slit Metamaterial for Elastic Wave Polarization Anomaly. Scientific Reports, 2017, 7, 15378.	3.3	26
68	Higher order analysis of thin-walled beams with axially varying quadrilateral cross sections. Computers and Structures, 2017, 179, 127-139.	4.4	25
69	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.	4.1	23
70	Rigid body modeling issue in acoustical topology optimization. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 1017-1030.	6.6	23
71	Asymptotic theory of bimodal quarter-wave impedance matching for full mode-converting transmission. Physical Review B, 2018, 98, .	3.2	23
72	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

#	Article	IF	Citations
73	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.	2.8	22
74	Maximization of operating frequency ranges of hyperbolic elastic metamaterials by topology optimization. Structural and Multidisciplinary Optimization, 2015, 52, 1023-1040.	3.5	22
75	Topology optimization design for total sound absorption in porous media. Computer Methods in Applied Mechanics and Engineering, 2020, 360, 112723.	6.6	22
76	Perfect transmission of elastic waves obliquely incident at solidâ€“solid interfaces. Extreme Mechanics Letters, 2022, 51, 101606.	4.1	22
77	Radiation pattern of Lamb waves generated by a circular magnetostrictive patch transducer. Applied Physics Letters, 2007, 90, 054102.	3.3	21
78	Power enhancing by reversing mode sequence in tuned mass-spring unit attached vibration energy harvester. AIP Advances, 2013, 3, .	1.3	21
79	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.	2.8	20
80	Wave attenuation and dissipation mechanisms in viscoelastic phononic crystals. Journal of Applied Physics, 2013, 113, 106101.	2.5	20
81	Add-on unidirectional elastic metamaterial plate cloak. Scientific Reports, 2016, 6, 20731.	3.3	20
82	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.	2.7	19
83	Characterization of anisotropic acoustic metamaterial slabs. Journal of Applied Physics, 2016, 119, .	2.5	19
84	Topology optimization of vehicle rear suspension mechanisms. International Journal for Numerical Methods in Engineering, 2018, 113, 1412-1433.	2.8	19
85	Inverse kinematics of binary manipulators by using the continuous-variable-based optimization method. , 2006, 22, 33-42.		18
86	Topology optimization of planar linkage mechanisms for path generation without prescribed timing. Structural and Multidisciplinary Optimization, 2017, 56, 501-517.	3.5	18
87	Higher-order Vlasov torsion theory for thin-walled box beams. International Journal of Mechanical Sciences, 2021, 195, 106231.	6.7	18
88	Ultrasonic flow measurement using a high-efficiency longitudinal-to-shear wave mode-converting meta-slab wedge. Sensors and Actuators A: Physical, 2020, 310, 112080.	4.1	18
89	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.	4.1	17
90	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.	5.3	17

#	Article	IF	Citations
91	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.	3.9	17
92	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.	3.4	17
93	High-frequency lowest torsional wave mode ultrasonic inspection using a necked pipe waveguide unit. Ultrasonics, 2015, 62, 237-243.	3.9	17
94	Multiple beam splitting in elastic phononic crystal plates. Ultrasonics, 2015, 56, 178-182.	3.9	17
95	Generation of omni-directional shear-horizontal waves in a ferromagnetic plate by a magnetostrictive patch transducer. NDT and E International, 2016, 80, 6-14.	3.7	17
96	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.	2.7	16
97	Noncontact Damage Detection of a Rotating Shaft Using the Magnetostrictive Effect. Journal of Nondestructive Evaluation, 2003, 22, 141-150.	2.4	15
98	Design of a Bias Magnetic System of a Magnetostrictive Sensor for Flexural Wave Measurement. IEEE Transactions on Magnetics, 2004, 40, 3331-3338.	2.1	15
99	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.	3.9	15
100	Vibration analysis of piecewise straight thin-walled box beams without using artificial joint springs. Journal of Sound and Vibration, 2009, 326, 647-670.	3.9	15
101	Mobile robot path planning algorithm by equivalent conduction heat flow topology optimization. Structural and Multidisciplinary Optimization, 2012, 45, 703-715.	3.5	15
102	Conical Refraction of Elastic Waves by Anisotropic Metamaterials and Application for Parallel Translation of Elastic Waves. Scientific Reports, 2017, 7, 10072.	3.3	15
103	Topology optimization with displacement-based nonconforming finite elements for incompressible materials. Journal of Mechanical Science and Technology, 2009, 23, 442-451.	1.5	14
104	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, .	2.9	14
105	Exact matching at a joint of multiply-connected box beams under out-of-plane bending and torsion. Engineering Structures, 2016, 124, 96-112.	5.3	14
106	Dispersion analysis with 45Â°-rotated augmented supercells and applications in phononic crystal design. Wave Motion, 2016, 61, 63-72.	2.0	14
107	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.	3.9	14
108	Higher-order beam theory for static and vibration analysis of composite thin-walled box beam. Composite Structures, 2018, 206, 140-154.	5.8	14

#	Article	IF	Citations
109	Zero-frequency Bragg gap by spin-harnessed metamaterial. New Journal of Physics, 2018, 20, 083035.	2.9	14
110	Shear horizontal wave transduction in plates by magnetostrictive gratings. Journal of Mechanical Science and Technology, 2007, 21, 693-698.	1.5	13
111	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, .	2.9	13
112	Waveguide tapering for beam-width control in a waveguide transducer. Ultrasonics, 2014, 54, 953-960.	3.9	13
113	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.	2.5	13
114	Near-zero effective impedance with finite phase velocity for sensing and actuation enhancement by resonator pairing. Nature Communications, 2018, 9, 5255.	12.8	13
115	Bi-annular shear-horizontal wave MPT tailored to generate the SH1 mode in a plate. Ultrasonics, 2019, 99, 105958.	3.9	13
116	Topology Optimization of Planar Gear-Linkage Mechanisms. Journal of Mechanical Design, Transactions of the ASME, 2019, 141, 0323011-3230118.	2.9	13
117	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
118	Multiscale multiresolution genetic algorithm with a golden sectioned population composition. International Journal for Numerical Methods in Engineering, 2008, 74, 349-367.	2.8	12
119	Realization of high-performance bandpass filter by impedance-mirroring. Journal of Sound and Vibration, 2015, 355, 86-92.	3.9	12
120	Data-driven approach for a one-dimensional thin-walled beam analysis. Computers and Structures, 2020, 231, 106207.	4.4	12
121	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.	4.1	11
122	Theoretical aspects of the internal element connectivity parameterization approach for topology optimization. International Journal for Numerical Methods in Engineering, 2008, 76, 775-797.	2.8	11
123	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, .	2.2	11
124	Dispersion suppression of guided elastic waves by anisotropic metamaterial. Journal of the Acoustical Society of America, 2015, 138, EL77-EL82.	1.1	11
125	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.	3.9	11
126	Topology optimization of anisotropic metamaterials tracing the target EFC and field polarization. Computer Methods in Applied Mechanics and Engineering, 2018, 333, 176-196.	6.6	11

#	Article	IF	Citations
127	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.	4.9	11
128	Directional quantification of power dissipation in sound-absorbing metaporous layers. Journal of Sound and Vibration, 2021, 512, 116375.	3.9	11
129	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.	3.9	10
130	Experiments of wave cancellation with elastic phononic crystal. Ultrasonics, 2016, 72, 128-133.	3.9	10
131	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.	3.5	10
132	Elastic complementary meta-layer for ultrasound penetration through solid/liquid/gas barriers. International Journal of Mechanical Sciences, 2021, 206, 106619.	6.7	10
133	Filtering technique to control member size in topology design optimization. Journal of Mechanical Science and Technology, 2004, 18, 253-261.	0.4	9
134	Minimum scale controlled topology optimization and experimental test of a micro thermal actuator. Sensors and Actuators A: Physical, 2008, 141, 603-609.	4.1	9
135	Unified topology and joint types optimization of general planar linkage mechanisms. Structural and Multidisciplinary Optimization, 2018, 57, 1955-1983.	3.5	9
136	Consistent higher-order beam theory for thin-walled box beams using recursive analysis: Membrane deformation under doubly symmetric loads. Engineering Structures, 2019, 197, 109430.	5.3	9
137	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, .	2.9	9
138	Magnetic circuit design by topology optimization for Lorentz force maximization in a microspeaker. Journal of Mechanical Science and Technology, 2008, 22, 1699-1706.	1.5	8
139	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, .	2.9	8
140	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.	6.6	8
141	Broadband sound blocking in phononic crystals with rotationally symmetric inclusions. Journal of the Acoustical Society of America, 2015, 138, EL217-EL222.	1.1	8
142	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.	2.8	8
143	Bulk-surface relationship of an electronic structure for high-throughput screening of metal oxide catalysts. Applied Surface Science, 2016, 370, 279-290.	6.1	8
144	Finite prism method based topology optimization of beam cross section for buckling load maximization. Structural and Multidisciplinary Optimization, 2018, 57, 55-70.	3.5	8

#	Article	IF	Citations
145	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.	5.3	8
146	Topology Optimization of Linkage Mechanisms Simultaneously Considering Both Kinematic and Compliance Characteristics. Journal of Mechanical Design, Transactions of the ASME, 2021, 143, .	2.9	8
147	Analytic solutions for fundamental eigenfrequencies of optical actuators in six directions of motion. International Journal of Solids and Structures, 2001, 38, 1327-1339.	2.7	7
148	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.	6.6	7
149	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.	1.5	7
150	Enhanced transduction of MPT for antisymmetric Lamb waves using a detuned resonator. Smart Materials and Structures, 2019, 28, 075035.	3.5	7
151	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.	4.4	7
152	Higherâ€order hybridâ€mixed axisymmetric thick shell element for vibration analysis. International Journal for Numerical Methods in Engineering, 2001, 51, 241-252.	2.8	6
153	Triangular checkerboard control using a wavelet-based method in topology optimization. International Journal for Numerical Methods in Engineering, 2005, 63, 103-121.	2.8	6
154	Mode separation of a single-frequency bi-modal elastic wave pulse by a phononic crystal. Applied Physics Letters, 2011, 99, 201906.	3.3	6
155	One-dimensional analysis of thin-walled beams with diaphragms and its application to optimization for stiffness reinforcement. Computational Mechanics, 2018, 61, 331-349.	4.0	6
156	Non-invasive ultrasonic inspection of sludge accumulation in a pipe. Ultrasonics, 2022, 119, 106602.	3.9	6
157	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.	4.5	6
158	Field-consistent higher-order free-interface component mode synthesis. International Journal for Numerical Methods in Engineering, 2001, 50, 595-610.	2.8	5
159	Magnetic sensor for the noncontact measurement of flexural vibrations of a nonferromagnetic metallic hollow cylinder. Review of Scientific Instruments, 2006, 77, 085105.	1.3	5
160	Magnet configuration maximizing the sensitivity and linearity of a magnetic rotation sensor. Sensors and Actuators A: Physical, 2009, 151, 100-106.	4.1	5
161	Design Optimization of Compliant Mechanisms Consisting of Standardized Elements. Journal of Mechanical Design, Transactions of the ASME, 2009, 131, .	2.9	5
162	Nonferromagnetic material inserted magnetostrictive patch bonding technique for torsional modal testing of a ferromagnetic cylinder. Review of Scientific Instruments, 2010, 81, 035103.	1.3	5

#	Article	IF	Citations
163	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.	3.9	5
164	Significance of distortion in thin-walled closed beam section design. International Journal of Solids and Structures, 2003, 40, 633-648.	2.7	4
165	Minimum thickness control at various levels for topology optimization using the wavelet method. International Journal of Solids and Structures, 2005, 42, 5945-5970.	2.7	4
166	Multipole expansion of Greenâ€™s function for guided waves in a transversely isotropic plate. Journal of Mechanical Science and Technology, 2015, 29, 1899-1906.	1.5	4
167	Development of deep learning-based joint elements for thin-walled beam structures. Computers and Structures, 2022, 260, 106714.	4.4	4
168	Joint Modeling Method for Higher-order Beam-based Models of Thin-walled Frame Structures. International Journal of Mechanical Sciences, 2022, 220, 107132.	6.7	4
169	Two-phase optimization for the design of multiple coils. IEEE Transactions on Magnetics, 2005, 41, 4093-4095.	2.1	3
170	Sub-workspace design of binary manipulators using active and passive joints. Journal of Mechanical Science and Technology, 2008, 22, 1707-1715.	1.5	3
171	A novel space-constrained vehicle suspension mechanism synthesized by a systematic design process employing topology optimization. Structural and Multidisciplinary Optimization, 2020, 62, 1497-1517.	3.5	3
172	Dispersion-based continuous wavelet transform for the analysis of elastic waves. Journal of Mechanical Science and Technology, 2006, 20, 2147-2158.	1.5	2
173	Stacked-Element Connectivity Parameterization for Topology Optimization of Nonlinear Magnetic Systems. IEEE Transactions on Magnetics, 2008, 44, 4754-4763.	2.1	2
174	Polarization of a permanent magnet to yield specific magnetic field distribution. Journal of Applied Physics, 2008, 104, 064915.	2.5	2
175	An SH wave magnetostrictive patch transducer for ultrasonic inspection of a plate-like structures. , 2010, , .		2
176	Effect of the Orientation and Bending Stiffness of Nanopatterned Films on Wrinkling. Macromolecular Research, 2018, 26, 374-379.	2.4	2
177	Inverse kinematics of binary manipulators by the optimization method in a continous variable space. , 0, , .		1
178	Implementation Strategy for the Numerical Efficiency Improvement of the Multiscale Interpolation Wavelet-Galerkin Method. Journal of Mechanical Science and Technology, 2006, 20, 110-124.	1.5	1
179	Feasibility study of a membrane-type magnetostrictive acoustic transducer for ultrasonic thrombolysis. , 2009, , .		1
180	Topology optimization for three-phase materials distribution in a dissipative expansion chamber by unified multiphase modeling approach. , 2015, 287, 191-191.		1

#	Article	IF	Citations
181	Waveguide damage detection by the matching pursuit using the gaussian chirp pulses. , 0, , .		0
182	Damage Detection by the Mode-Selectable Magnetostrictive Transducer for Cylindrical Ferromagnetic Waveguides. AIP Conference Proceedings, 2004, , .	0.4	0
183	Torsional wave transduction using obliquely-bonded magnetostrictive nickel strips in cylinders. , 0, , .		0
184	Magnetostrictive grating transducers : effects of grating size and shape. , 0, , .		0
185	Wireless Frequency-Tuned Generation and Measurement of Shear Horizontal Waves Using Magnetostrictive Gratings in Plates. , 0, , .		0
186	Method to suppress higher modes of the guided torsional wave for sending the non-dispersive mode through a pipe. , 2010, , .		0
187	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.	1.5	0
188	Noncontact flexural vibration modal testing of metallic cylinders using the electromagnetic acoustic coupling principle. , 2013, , .		0
189	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.	1.5	0
190	Synthesis of Gear-Linkage Mechanisms by Topology Optimization. , 2018, , .		0
191	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