Yoon Young Kim

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181
papers3,440
citations33
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ext. papers4,085
ext. citations3.4
avg, IF5.89
L-index

#	Paper	IF	Citations
181	Review of magnetostrictive patch transducers and applications in ultrasonic nondestructive testing of waveguides. <i>Ultrasonics</i> , 2015 , 62, 3-19	3.5	146
180	Mac-based mode-tracking in structural topology optimization. Computers and Structures, 2000, 74, 375-	·3&3 3	110
179	Multi-resolution multi-scale topology optimization has new paradigm. <i>International Journal of Solids and Structures</i> , 2000 , 37, 5529-5559	3.1	87
178	The matching pursuit approach based on the modulated Gaussian pulse for efficient guided-wave damage inspection. <i>Smart Materials and Structures</i> , 2005 , 14, 548-560	3.4	73
177	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	2.2	67
176	Topology optimization of muffler internal partitions for improving acoustical attenuation performance. <i>International Journal for Numerical Methods in Engineering</i> , 2009 , 80, 455-477	2.4	66
175	Mass-stiffness substructuring of an elastic metasurface for full transmission beam steering. <i>Journal of the Mechanics and Physics of Solids</i> , 2018 , 112, 577-593	5	65
174	Torsional wave experiments with a new magnetostrictive transducer configuration. <i>Journal of the Acoustical Society of America</i> , 2005 , 117, 3459-68	2.2	64
173	Checkerboard-free topology optimization using non-conforming finite elements. <i>International Journal for Numerical Methods in Engineering</i> , 2003 , 57, 1717-1735	2.4	57
172	Topology optimization of beam cross sections. <i>International Journal of Solids and Structures</i> , 2000 , 37, 477-493	3.1	57
171	Elastic metamaterials for independent realization of negativity in density and stiffness. <i>Scientific Reports</i> , 2016 , 6, 23630	4.9	56
170	Dispersion-based short-time Fourier transform applied to dispersive wave analysis. <i>Journal of the Acoustical Society of America</i> , 2005 , 117, 2949-60	2.2	56
169	Thin-walled closed box beam element for static and dynamic analysis. <i>International Journal for Numerical Methods in Engineering</i> , 1999 , 45, 473-490	2.4	56
168	An omnidirectional shear-horizontal guided wave EMAT for a metallic plate. <i>Ultrasonics</i> , 2016 , 69, 58-66	5 3.5	54
167	Parallelized structural topology optimization for eigenvalue problems. <i>International Journal of Solids and Structures</i> , 2004 , 41, 2623-2641	3.1	52
166	Development of an omni-directional shear-horizontal wave magnetostrictive patch transducer for plates. <i>Ultrasonics</i> , 2013 , 53, 1304-8	3.5	51
165	Transmodal Fabry-Pfot Resonance: Theory and Realization with Elastic Metamaterials. <i>Physical Review Letters</i> , 2017 , 118, 205901	7.4	50

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164	Topology optimization of material-nonlinear continuum structures by the element connectivity parameterization. <i>International Journal for Numerical Methods in Engineering</i> , 2007 , 69, 2196-2218	2.4	49	
163	Beam-focused shear-horizontal wave generation in a plate by a circular magnetostrictive patch transducer employing a planar solenoid array. <i>Smart Materials and Structures</i> , 2009 , 18, 015009	3.4	48	
162	Optimal poroelastic layer sequencing for sound transmission loss maximization by topology optimization method. <i>Journal of the Acoustical Society of America</i> , 2007 , 122, 2097-106	2.2	48	
161	Metaporous layer to overcome the thickness constraint for broadband sound absorption. <i>Journal of Applied Physics</i> , 2015 , 117, 174903	2.5	45	
160	Dynamic analysis of a linear motion guide having rolling elements for precision positioning devices. Journal of Mechanical Science and Technology, 2008 , 22, 50-60	1.6	44	
159	Guided wave transduction experiment using a circular magnetostrictive patch and a figure-of-eight coil in nonferromagnetic plates. <i>Applied Physics Letters</i> , 2006 , 88, 224101	3.4	43	
158	Multiple slow waves in metaporous layers for broadband sound absorption. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 015301	3	41	
157	Omnidirectional Lamb waves by axisymmetrically-configured magnetostrictive patch transducer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013 , 60, 1928-34	3.2	40	
156	One-dimensional analysis of thin-walled closed beams having general cross-sections. <i>International Journal for Numerical Methods in Engineering</i> , 2000 , 49, 653-668	2.4	40	
155	Effective mass density based topology optimization of locally resonant acoustic metamaterials for bandgap maximization. <i>Journal of Sound and Vibration</i> , 2016 , 383, 89-107	3.9	40	
154	A truly hyperbolic elastic metamaterial lens. Applied Physics Letters, 2014, 104, 073503	3.4	38	
153	Negative refraction experiments with guided shear-horizontal waves in thin phononic crystal plates. <i>Applied Physics Letters</i> , 2011 , 98, 011909	3.4	37	
152	The element connectivity parameterization formulation for the topology design optimization of multiphysics systems. <i>International Journal for Numerical Methods in Engineering</i> , 2005 , 64, 1649-1677	2.4	37	
151	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, 6473-6	495	36	
150	Two-dimensional poroelastic acoustical foam shape design for absorption coefficient maximization by topology optimization method. <i>Journal of the Acoustical Society of America</i> , 2008 , 123, 2094-106	2.2	35	
149	Extreme stiffness hyperbolic elastic metamaterial for total transmission subwavelength imaging. <i>Scientific Reports</i> , 2016 , 6, 24026	4.9	34	
148	Design of phononic crystals for self-collimation of elastic waves using topology optimization method. <i>Structural and Multidisciplinary Optimization</i> , 2015 , 51, 1199-1209	3.6	33	
147	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	3.8	32	

146	Far-field subwavelength imaging for ultrasonic elastic waves in a plate using an elastic hyperlens. <i>Applied Physics Letters</i> , 2011 , 98, 241912	3.4	31
145	Automatic Synthesis of a Planar Linkage Mechanism With Revolute Joints by Using Spring-Connected Rigid Block Models. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2007 , 129, 930-940	3	31
144	Transmodal elastic metasurface for broad angle total mode conversion. <i>Applied Physics Letters</i> , 2018 , 112, 241905	3.4	29
143	Megahertz-range guided pure torsional wave transduction and experiments using a magnetostrictive transducer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010 , 57, 1225-9	3.2	29
142	Inverted bi-prism phononic crystals for one-sided elastic wave transmission applications. <i>Applied Physics Letters</i> , 2012 , 100, 213503	3.4	28
141	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	2.4	28
140	Topology optimization for the design of perfect mode-converting anisotropic elastic metamaterials. <i>Composite Structures</i> , 2018 , 201, 161-177	5.3	26
139	A one-dimensional theory of thin-walled curved rectangular box beams under torsion and out-of-plane bending. <i>International Journal for Numerical Methods in Engineering</i> , 2002 , 53, 1675-1693	2.4	26
138	Elastic Metamaterial Insulator for Broadband Low-Frequency Flexural Vibration Shielding. <i>Physical Review Applied</i> , 2017 , 8,	4.3	25
137	Topology optimization of planar linkage mechanisms. <i>International Journal for Numerical Methods in Engineering</i> , 2014 , 98, 265-286	2.4	25
136	Analysis of internal wave reflection within a magnetostrictive patch transducer for high-frequency guided torsional waves. <i>Ultrasonics</i> , 2011 , 51, 647-52	3.5	25
135	Analysis of thin-walled curved box beam under in-plane flexure. <i>International Journal of Solids and Structures</i> , 2003 , 40, 6111-6123	3.1	25
134	Adjoining of negative stiffness and negative density bands in an elastic metamaterial. <i>Applied Physics Letters</i> , 2016 , 108, 093501	3.4	25
133	Elastic metamaterial-based impedance-varying phononic bandgap structures for bandpass filters. Journal of Sound and Vibration, 2015 , 353, 58-74	3.9	23
132	Application of magnetomechanical sensors for modal testing. <i>Journal of Sound and Vibration</i> , 2003 , 268, 799-808	3.9	23
131	Integrated topology and shape optimization software for compliant MEMS mechanism design. <i>Advances in Engineering Software</i> , 2008 , 39, 1-14	3.6	22
130	Wireless frequency-tuned generation and measurement of torsional waves using magnetostrictive nickel gratings in cylinders. <i>Sensors and Actuators A: Physical</i> , 2006 , 126, 73-77	3.9	22
129	Doubly negative isotropic elastic metamaterial for sub-wavelength focusing: Design and realization. <i>Journal of Sound and Vibration</i> , 2017 , 410, 169-186	3.9	21

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128	Power enhancing by reversing mode sequence in tuned mass-spring unit attached vibration energy harvester. <i>AIP Advances</i> , 2013 , 3, 072103	1.5	21	
127	Rigid body modeling issue in acoustical topology optimization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009 , 198, 1017-1030	5.7	21	
126	Higher order analysis of thin-walled beams with axially varying quadrilateral cross sections. <i>Computers and Structures</i> , 2017 , 179, 127-139	4.5	20	
125	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	2.4	20	
124	Topology optimization using non-conforming finite elements: three-dimensional case. <i>International Journal for Numerical Methods in Engineering</i> , 2005 , 63, 859-875	2.4	20	
123	Tuned double-coil EMATs for omnidirectional symmetric mode lamb wave generation. <i>NDT and E International</i> , 2016 , 83, 38-47	4.1	19	
122	Topology optimization of planar linkage systems involving general joint types. <i>Mechanism and Machine Theory</i> , 2016 , 104, 130-160	4	19	
121	Topology optimization for three-phase materials distribution in a dissipative expansion chamber by unified multiphase modeling approach. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015 , 287, 191-211	5.7	19	
120	Optimal layout design of three-dimensional geometrically non-linear structures using the element connectivity parameterization method. <i>International Journal for Numerical Methods in Engineering</i> , 2007 , 69, 1278-1304	2.4	19	
119	The optimal design and experimental verification of the bias magnet configuration of a magnetostrictive sensor for bending wave measurement. <i>Sensors and Actuators A: Physical</i> , 2003 , 107, 225-232	3.9	19	
118	Slow-wave metamaterial open panels for efficient reduction of low-frequency sound transmission. <i>Applied Physics Letters</i> , 2018 , 112, 091901	3.4	17	
117	Radiation pattern of Lamb waves generated by a circular magnetostrictive patch transducer. <i>Applied Physics Letters</i> , 2007 , 90, 054102	3.4	17	
116	The role of S-Shape mapping functions in the SIMP approach for topology optimization. <i>Journal of Mechanical Science and Technology</i> , 2003 , 17, 1496-1506		17	
115	Effective material parameter retrieval of anisotropic elastic metamaterials with inherent nonlocality. <i>Journal of Applied Physics</i> , 2016 , 120, 104902	2.5	17	
114	Damage detection by the topology design formulation using modal parameters. <i>International Journal for Numerical Methods in Engineering</i> , 2007 , 69, 1480-1498	2.4	16	
113	Higher-order beam analysis of box beams connected at angled joints subject to out-of-plane bending and torsion. <i>International Journal for Numerical Methods in Engineering</i> , 2008 , 75, 1361-1384	2.4	16	
112	New accurate efficient modeling techniques for the vibration analysis of T-joint thin-walled box structures. <i>International Journal of Solids and Structures</i> , 2002 , 39, 2893-2909	3.1	16	
111	Maximization of operating frequency ranges of hyperbolic elastic metamaterials by topology optimization. <i>Structural and Multidisciplinary Optimization</i> , 2015 , 52, 1023-1040	3.6	15	

110	Non-resonant metasurface for broadband elastic wave mode splitting. <i>Applied Physics Letters</i> , 2020 , 116, 171903	3.4	15
109	Add-on unidirectional elastic metamaterial plate cloak. <i>Scientific Reports</i> , 2016 , 6, 20731	4.9	15
108	Generation of omni-directional shear-horizontal waves in a ferromagnetic plate by a magnetostrictive patch transducer. <i>NDT and E International</i> , 2016 , 80, 6-14	4.1	15
107	Unified multiphase modeling for evolving, acoustically coupled systems consisting of acoustic, elastic, poroelastic media and septa. <i>Journal of Sound and Vibration</i> , 2012 , 331, 5518-5536	3.9	15
106	Analysis of Thin-Walled Straight Beams with Generally Shaped Closed Sections Using Numerically Determined Sectional Deformation Functions. <i>Journal of Structural Engineering</i> , 2012 , 138, 1427-1435	3	15
105	Off-centered Double-slit Metamaterial for Elastic Wave Polarization Anomaly. <i>Scientific Reports</i> , 2017 , 7, 15378	4.9	14
104	Characterization of anisotropic acoustic metamaterial slabs. <i>Journal of Applied Physics</i> , 2016 , 119, 0349	01 .5	14
103	Theory for Perfect Transmodal Fabry-Perot Interferometer. <i>Scientific Reports</i> , 2018 , 8, 69	4.9	13
102	Topology optimization with displacement-based nonconforming finite elements for incompressible materials. <i>Journal of Mechanical Science and Technology</i> , 2009 , 23, 442-451	1.6	13
101	Higher-order in-plane bending analysis of box beams connected at an angled joint considering cross-sectional bending warping and distortion. <i>Thin-Walled Structures</i> , 2009 , 47, 1478-1489	4.7	13
100	Design of a bias magnetic system of a magnetostrictive sensor for flexural wave measurement. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 3331-3338	2	13
99	High-frequency lowest torsional wave mode ultrasonic inspection using a necked pipe waveguide unit. <i>Ultrasonics</i> , 2015 , 62, 237-43	3.5	12
98	Topology optimization of vehicle rear suspension mechanisms. <i>International Journal for Numerical Methods in Engineering</i> , 2018 , 113, 1412-1433	2.4	12
97	The Spring-Connected Rigid Block Model Based Automatic Synthesis of Planar Linkage Mechanisms: Numerical Issues and Remedies. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2012 , 134,	3	12
96	Shear horizontal wave transduction in plates by magnetostrictive gratings. <i>Journal of Mechanical Science and Technology</i> , 2007 , 21, 693-698	1.6	12
95	Noncontact Damage Detection of a Rotating Shaft Using the Magnetostrictive Effect. <i>Journal of Nondestructive Evaluation</i> , 2003 , 22, 141-150	2.1	12
94	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	3.9	12
93	Analysis of two box beams-joint systems under in-plane bending and axial loads by one-dimensional higher-order beam theory. <i>International Journal of Solids and Structures</i> , 2016 , 90, 69-94	3.1	12

92	Multiple beam splitting in elastic phononic crystal plates. <i>Ultrasonics</i> , 2015 , 56, 178-82	3.5	11
91	Realization of high-performance bandpass filter by impedance-mirroring. <i>Journal of Sound and Vibration</i> , 2015 , 355, 86-92	3.9	11
90	Mobile robot path planning algorithm by equivalent conduction heat flow topology optimization. <i>Structural and Multidisciplinary Optimization</i> , 2012 , 45, 703-715	3.6	11
89	Inverse kinematics of binary manipulators by using the continuous-variable-based optimization method 2006 , 22, 33-42		11
88	Damage size estimation by the continuous wavelet ridge analysis of dispersive bending waves in a beam. <i>Journal of Sound and Vibration</i> , 2005 , 287, 707-722	3.9	11
87	Exact matching at a joint of multiply-connected box beams under out-of-plane bending and torsion. <i>Engineering Structures</i> , 2016 , 124, 96-112	4.7	11
86	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	2.3	10
85	Omnidirectional shear horizontal wave based tomography for damage detection in a metallic plate with the compensation for the transfer functions of transducer. <i>Ultrasonics</i> , 2018 , 88, 72-83	3.5	10
84	Dispersion analysis with 45°-rotated augmented supercells and applications in phononic crystal design. <i>Wave Motion</i> , 2016 , 61, 63-72	1.8	10
83	Monolayer metamaterial for full mode-converting transmission of elastic waves. <i>Applied Physics Letters</i> , 2019 , 115, 071901	3.4	10
82	Topology optimization of metasurfaces for anomalous reflection of longitudinal elastic waves. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019 , 357, 112582	5.7	10
81	Bi-annular shear-horizontal wave MPT tailored to generate the SH1 mode in a plate. <i>Ultrasonics</i> , 2019 , 99, 105958	3.5	10
80	Non-contact modal testing by the electromagnetic acoustic principle: Applications to bending and torsional vibrations of metallic pipes. <i>Journal of Sound and Vibration</i> , 2013 , 332, 740-751	3.9	10
79	Vibration analysis of piecewise straight thin-walled box beams without using artificial joint springs. <i>Journal of Sound and Vibration</i> , 2009 , 326, 647-670	3.9	10
78	Magnetostrictive grating with an optimal yoke for generating high-output frequency-tuned SH waves in a plate. <i>Sensors and Actuators A: Physical</i> , 2007 , 137, 141-146	3.9	10
77	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		10
76	Topology optimization of planar linkage mechanisms for path generation without prescribed timing. Structural and Multidisciplinary Optimization, 2017, 56, 501-517	3.6	9
75	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	3.8	9

74	Asymptotic theory of bimodal quarter-wave impedance matching for full mode-converting transmission. <i>Physical Review B</i> , 2018 , 98,	3.3	9
73	Topology optimization of anisotropic metamaterials tracing the target EFC and field polarization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018 , 333, 176-196	5.7	8
72	Bulk-surface relationship of an electronic structure for high-throughput screening of metal oxide catalysts. <i>Applied Surface Science</i> , 2016 , 370, 279-290	6.7	8
71	Higher-order beam theory for static and vibration analysis of composite thin-walled box beam. <i>Composite Structures</i> , 2018 , 206, 140-154	5.3	8
70	Optimization of Support Locations of Beam and Plate Structures Under Self-Weight by Using a Sprung Structure Model. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2009 , 131,	3	8
69	Exact Matching Condition at a Joint of Thin-Walled Box Beams Under Out-of-Plane Bending and Torsion. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2012 , 79,	2.7	8
68	Multiscale multiresolution genetic algorithm with a golden sectioned population composition. <i>International Journal for Numerical Methods in Engineering</i> , 2008 , 74, 349-367	2.4	8
67	Theoretical aspects of the internal element connectivity parameterization approach for topology optimization. <i>International Journal for Numerical Methods in Engineering</i> , 2008 , 76, 775-797	2.4	8
66	Minimum scale controlled topology optimization and experimental test of a micro thermal actuator. <i>Sensors and Actuators A: Physical</i> , 2008 , 141, 603-609	3.9	8
65	Filtering technique to control member size in topology design optimization. <i>Journal of Mechanical Science and Technology</i> , 2004 , 18, 253-261		8
64	Topology optimization design for total sound absorption in porous media. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 360, 112723	5.7	8
63	Broadband sound blocking in phononic crystals with rotationally symmetric inclusions. <i>Journal of the Acoustical Society of America</i> , 2015 , 138, EL217-22	2.2	7
62	Dispersion suppression of guided elastic waves by anisotropic metamaterial. <i>Journal of the Acoustical Society of America</i> , 2015 , 138, EL77-82	2.2	7
61	Zero-frequency Bragg gap by spin-harnessed metamaterial. <i>New Journal of Physics</i> , 2018 , 20, 083035	2.9	7
60	Waveguide tapering for beam-width control in a waveguide transducer. <i>Ultrasonics</i> , 2014 , 54, 953-60	3.5	7
59	Conical Refraction of Elastic Waves by Anisotropic Metamaterials and Application for Parallel Translation of Elastic Waves. <i>Scientific Reports</i> , 2017 , 7, 10072	4.9	7
58	Optimal distribution of holes in a partition interfacing two cavities for controlling the eigenfrequencies by acoustical topology optimization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009 , 198, 2175-2189	5.7	7
57	Application of a Ground Beam-Joint Topology Optimization Method for Multi-Piece Frame Structure Design. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2008 , 130,	3	7

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56	Finite prism method based topology optimization of beam cross section for buckling load maximization. <i>Structural and Multidisciplinary Optimization</i> , 2018 , 57, 55-70	3.6	7	
55	Analysis and design of an annular-array MPT for the efficient generation of omnidirectional shear-horizontal waves in plates. <i>Smart Materials and Structures</i> , 2019 , 28, 075005	3.4	6	
54	Data-driven approach for a one-dimensional thin-walled beam analysis. <i>Computers and Structures</i> , 2020 , 231, 106207	4.5	6	
53	Unified topology and joint types optimization of general planar linkage mechanisms. <i>Structural and Multidisciplinary Optimization</i> , 2018 , 57, 1955-1983	3.6	6	
52	Experiments of wave cancellation with elastic phononic crystal. <i>Ultrasonics</i> , 2016 , 72, 128-33	3.5	6	
51	A direct hybrid finite elementwave based modelling technique for efficient analysis of poroelastic materials in steady-state acoustic problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016 , 304, 55-80	5.7	6	
50	Guided wave scattering analysis for a plate with arbitrarily shaped elastic inclusions using the T-matrix method. <i>Journal of Sound and Vibration</i> , 2016 , 360, 97-111	3.9	6	
49	Consistent higher-order beam theory for thin-walled box beams using recursive analysis: Membrane deformation under doubly symmetric loads. <i>Engineering Structures</i> , 2019 , 197, 109430	4.7	6	
48	Buckling analysis of thin-walled box beams under arbitrary loads with general boundary conditions using higher-order beam theory. <i>Journal of Mechanical Science and Technology</i> , 2019 , 33, 2289-2305	1.6	6	
47	Magnetic circuit design by topology optimization for Lorentz force maximization in a microspeaker. <i>Journal of Mechanical Science and Technology</i> , 2008 , 22, 1699-1706	1.6	6	
46	Higher-order hybrid-mixed axisymmetric thick shell element for vibration analysis. <i>International Journal for Numerical Methods in Engineering</i> , 2001 , 51, 241-252	2.4	6	
45	Topology Optimization of Planar Gear-Linkage Mechanisms. <i>Journal of Mechanical Design, Transactions of the ASME,</i> 2019 , 141, 0323011-3230118	3	6	
44	Topology optimization of thin-walled box beam structures based on the higher-order beam theory. <i>International Journal for Numerical Methods in Engineering</i> , 2016 , 106, 576-590	2.4	5	
43	Nonferromagnetic material inserted magnetostrictive patch bonding technique for torsional modal testing of a ferromagnetic cylinder. <i>Review of Scientific Instruments</i> , 2010 , 81, 035103	1.7	5	
42	Magnet configuration maximizing the sensitivity and linearity of a magnetic rotation sensor. <i>Sensors and Actuators A: Physical</i> , 2009 , 151, 100-106	3.9	5	
41	Mode separation of a single-frequency bi-modal elastic wave pulse by a phononic crystal. <i>Applied Physics Letters</i> , 2011 , 99, 201906	3.4	5	
40	Design Optimization of Compliant Mechanisms Consisting of Standardized Elements. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2009 , 131,	3	5	
39	Triangular checkerboard control using a wavelet-based method in topology optimization. International Journal for Numerical Methods in Engineering, 2005, 63, 103-121	2.4	5	

38	Ultrasonic flow measurement using a high-efficiency longitudinal-to-shear wave mode-converting meta-slab wedge. <i>Sensors and Actuators A: Physical</i> , 2020 , 310, 112080	3.9	5
37	One-dimensional analysis of thin-walled beams with diaphragms and its application to optimization for stiffness reinforcement. <i>Computational Mechanics</i> , 2018 , 61, 331-349	4	5
36	Near-zero effective impedance with finite phase velocity for sensing and actuation enhancement by resonator pairing. <i>Nature Communications</i> , 2018 , 9, 5255	17.4	5
35	Multipole expansion of Green function for guided waves in a transversely isotropic plate. <i>Journal of Mechanical Science and Technology</i> , 2015 , 29, 1899-1906	1.6	4
34	Theoretical analysis of coupled torsional, warping and distortional waves in a straight thin-walled box beam by higher-order beam theory. <i>Journal of Sound and Vibration</i> , 2011 , 330, 3024-3039	3.9	4
33	Significance of distortion in thin-walled closed beam section design. <i>International Journal of Solids and Structures</i> , 2003 , 40, 633-648	3.1	4
32	Minimum thickness control at various levels for topology optimization using the wavelet method. <i>International Journal of Solids and Structures</i> , 2005 , 42, 5945-5970	3.1	4
31	Analytic solutions for fundamental eigenfrequencies of optical actuators in six directions of motion. <i>International Journal of Solids and Structures</i> , 2001 , 38, 1327-1339	3.1	4
30	Higher-order Vlasov torsion theory for thin-walled box beams. <i>International Journal of Mechanical Sciences</i> , 2021 , 195, 106231	5.5	4
29	Sub-workspace design of binary manipulators using active and passive joints. <i>Journal of Mechanical Science and Technology</i> , 2008 , 22, 1707-1715	1.6	3
28	Magnetic sensor for the noncontact measurement of flexural vibrations of a nonferromagnetic metallic hollow cylinder. <i>Review of Scientific Instruments</i> , 2006 , 77, 085105	1.7	3
27	Two-phase optimization for the design of multiple coils. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 4093	-4095	3
26	Field-consistent higher-order free-interface component mode synthesis. <i>International Journal for Numerical Methods in Engineering</i> , 2001 , 50, 595-610	2.4	3
25	Simultaneous Shape and Topology Optimization of Planar Linkage Mechanisms Based on the Spring-Connected Rigid Block Model. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2020 , 142,	3	3
24	Consistent higher-order beam theory for thin-walled box beams using recursive analysis: Edge-bending deformation under doubly symmetric loads. <i>Engineering Structures</i> , 2020 , 206, 110129	4.7	3
23	Longitudinal wave steering using beam-type elastic metagratings. <i>Mechanical Systems and Signal Processing</i> , 2021 , 156, 107688	7.8	3
22	Enhanced transduction of MPT for antisymmetric Lamb waves using a detuned resonator. <i>Smart Materials and Structures</i> , 2019 , 28, 075035	3.4	2
21	Effect of the Orientation and Bending Stiffness of Nanopatterned Films on Wrinkling. Macromolecular Research, 2018 , 26, 374-379	1.9	2

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