

Yoon Young Kim

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

181
papers

3,440
citations

33
h-index

47
g-index

192
ext. papers

4,085
ext. citations

3.4
avg, IF

5.89
L-index

#	Paper	IF	Citations
181	Perfect transmission of elastic waves obliquely incident at solid-solid interfaces. <i>Extreme Mechanics Letters</i> , 2022 , 51, 101606	3.9	2
180	Joint Modeling Method for Higher-order Beam-based Models of Thin-walled Frame Structures. <i>International Journal of Mechanical Sciences</i> , 2022 , 220, 107132	5.5	0
179	Development of deep learning-based joint elements for thin-walled beam structures. <i>Computers and Structures</i> , 2022 , 260, 106714	4.5	0
178	Non-invasive ultrasonic inspection of sludge accumulation in a pipe. <i>Ultrasonics</i> , 2022 , 119, 106602	3.5	0
177	Higher-order Vlasov torsion theory for thin-walled box beams. <i>International Journal of Mechanical Sciences</i> , 2021 , 195, 106231	5.5	4
176	Higher-order beam bending theory for static, free vibration, and buckling analysis of thin-walled rectangular hollow section beams. <i>Computers and Structures</i> , 2021 , 248, 106494	4.5	2
175	Longitudinal wave steering using beam-type elastic metagratings. <i>Mechanical Systems and Signal Processing</i> , 2021 , 156, 107688	7.8	3
174	Elastic complementary meta-layer for ultrasound penetration through solid/liquid/gas barriers. <i>International Journal of Mechanical Sciences</i> , 2021 , 206, 106619	5.5	0
173	Big data approach for the simultaneous determination of the topology and end-effector location of a planar linkage mechanism. <i>Mechanism and Machine Theory</i> , 2021 , 163, 104375	4	0
172	Directional quantification of power dissipation in sound-absorbing metaporous layers. <i>Journal of Sound and Vibration</i> , 2021 , 512, 116375	3.9	1
171	Data-driven approach for a one-dimensional thin-walled beam analysis. <i>Computers and Structures</i> , 2020 , 231, 106207	4.5	6
170	Non-resonant metasurface for broadband elastic wave mode splitting. <i>Applied Physics Letters</i> , 2020 , 116, 171903	3.4	15
169	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
168	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
167	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
166	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
165	A novel space-constrained vehicle suspension mechanism synthesized by a systematic design process employing topology optimization. <i>Structural and Multidisciplinary Optimization</i> , 2020 , 62, 1497-1517	3.6	0

164	Enhanced transduction of MPT for antisymmetric Lamb waves using a detuned resonator. <i>Smart Materials and Structures</i> , 2019 , 28, 075035	3.4	2
163	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
162	Monolayer metamaterial for full mode-converting transmission of elastic waves. <i>Applied Physics Letters</i> , 2019 , 115, 071901	3.4	10
161	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
160	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
159	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
158	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
157	Bi-annular shear-horizontal wave MPT tailored to generate the SH1 mode in a plate. <i>Ultrasonics</i> , 2019 , 99, 105958	3.5	10
156	Topology Optimization of Planar Gear-Linkage Mechanisms. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2019 , 141, 0323011-3230118	3	6
155	Slow-wave metamaterial open panels for efficient reduction of low-frequency sound transmission. <i>Applied Physics Letters</i> , 2018 , 112, 091901	3.4	17
154	Theory for Perfect Transmodal Fabry-Perot Interferometer. <i>Scientific Reports</i> , 2018 , 8, 69	4.9	13
153	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
152	Effect of the Orientation and Bending Stiffness of Nanopatterned Films on Wrinkling. <i>Macromolecular Research</i> , 2018 , 26, 374-379	1.9	2
151	Unified topology and joint types optimization of general planar linkage mechanisms. <i>Structural and Multidisciplinary Optimization</i> , 2018 , 57, 1955-1983	3.6	6
150	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
149	Topology optimization of vehicle rear suspension mechanisms. <i>International Journal for Numerical Methods in Engineering</i> , 2018 , 113, 1412-1433	2.4	12
148	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
147	Zero-frequency Bragg gap by spin-harnessed metamaterial. <i>New Journal of Physics</i> , 2018 , 20, 083035	2.9	7

146	Transmodal elastic metasurface for broad angle total mode conversion. <i>Applied Physics Letters</i> , 2018 , 112, 241905	3.4	29
145	Topology optimization for the design of perfect mode-converting anisotropic elastic metamaterials. <i>Composite Structures</i> , 2018 , 201, 161-177	5.3	26
144	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
143	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
142	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
141	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
140	Asymptotic theory of bimodal quarter-wave impedance matching for full mode-converting transmission. <i>Physical Review B</i> , 2018 , 98,	3.3	9
139	Topology optimization of planar linkage mechanisms for path generation without prescribed timing. <i>Structural and Multidisciplinary Optimization</i> , 2017 , 56, 501-517	3.6	9
138	Multiple slow waves in metaporous layers for broadband sound absorption. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 015301	3	41
137	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
136	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
135	Elastic Metamaterial Insulator for Broadband Low-Frequency Flexural Vibration Shielding. <i>Physical Review Applied</i> , 2017 , 8,	4.3	25
134	Off-centered Double-slit Metamaterial for Elastic Wave Polarization Anomaly. <i>Scientific Reports</i> , 2017 , 7, 15378	4.9	14
133	Transmodal Fabry-Pérot Resonance: Theory and Realization with Elastic Metamaterials. <i>Physical Review Letters</i> , 2017 , 118, 205901	7.4	50
132	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
131	Experiments of wave cancellation with elastic phononic crystal. <i>Ultrasonics</i> , 2016 , 72, 128-33	3.5	6
130	Elastic metamaterials for independent realization of negativity in density and stiffness. <i>Scientific Reports</i> , 2016 , 6, 23630	4.9	56
129	Add-on unidirectional elastic metamaterial plate cloak. <i>Scientific Reports</i> , 2016 , 6, 20731	4.9	15

128	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
127	Tuned double-coil EMATs for omnidirectional symmetric mode lamb wave generation. <i>NDT and E International</i> , 2016 , 83, 38-47	4.1	19
126	Topology optimization of planar linkage systems involving general joint types. <i>Mechanism and Machine Theory</i> , 2016 , 104, 130-160	4	19
125	Dispersion analysis with 45°-rotated augmented supercells and applications in phononic crystal design. <i>Wave Motion</i> , 2016 , 61, 63-72	1.8	10
124	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
123	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
122	A direct hybrid finite element/wave 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
121	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
120	Extreme stiffness hyperbolic elastic metamaterial for total transmission subwavelength imaging. <i>Scientific Reports</i> , 2016 , 6, 24026	4.9	34
119	Effective material parameter retrieval of anisotropic elastic metamaterials with inherent nonlocality. <i>Journal of Applied Physics</i> , 2016 , 120, 104902	2.5	17
118	Adjoining of negative stiffness and negative density bands in an elastic metamaterial. <i>Applied Physics Letters</i> , 2016 , 108, 093501	3.4	25
117	Characterization of anisotropic acoustic metamaterial slabs. <i>Journal of Applied Physics</i> , 2016 , 119, 034901.5	1.5	14
116	An omnidirectional shear-horizontal guided wave EMAT for a metallic plate. <i>Ultrasonics</i> , 2016 , 69, 58-66	3.5	54
115	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
114	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
113	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
112	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
111	Elastic metamaterial-based impedance-varying phononic bandgap structures for bandpass filters. <i>Journal of Sound and Vibration</i> , 2015 , 353, 58-74	3.9	23

110	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
109	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
108	High-frequency lowest torsional wave mode ultrasonic inspection using a necked pipe waveguide unit. <i>Ultrasonics</i> , 2015 , 62, 237-43	3.5	12
107	Review of magnetostrictive patch transducers and applications in ultrasonic nondestructive testing of waveguides. <i>Ultrasonics</i> , 2015 , 62, 3-19	3.5	146
106	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
105	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
104	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
103	Multiple beam splitting in elastic phononic crystal plates. <i>Ultrasonics</i> , 2015 , 56, 178-82	3.5	11
102	Realization of high-performance bandpass filter by impedance-mirroring. <i>Journal of Sound and Vibration</i> , 2015 , 355, 86-92	3.9	11
101	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. <i>Journal of Mechanical Science and Technology</i> , 2015 , 29, 5309-5316	1.6	
100	Multipole expansion of Green's function for guided waves in a transversely isotropic plate. <i>Journal of Mechanical Science and Technology</i> , 2015 , 29, 1899-1906	1.6	4
99	Metaporous layer to overcome the thickness constraint for broadband sound absorption. <i>Journal of Applied Physics</i> , 2015 , 117, 174903	2.5	45
98	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
97	Topology optimization for three-phase materials distribution in a dissipative expansion chamber by unified multiphase modeling approach 2015 , 287, 191-191		1
96	Waveguide tapering for beam-width control in a waveguide transducer. <i>Ultrasonics</i> , 2014 , 54, 953-60	3.5	7
95	Topology optimization of planar linkage mechanisms. <i>International Journal for Numerical Methods in Engineering</i> , 2014 , 98, 265-286	2.4	25
94	A truly hyperbolic elastic metamaterial lens. <i>Applied Physics Letters</i> , 2014 , 104, 073503	3.4	38
93	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

92	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
91	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
90	Development of an omni-directional shear-horizontal wave magnetostrictive patch transducer for plates. <i>Ultrasonics</i> , 2013 , 53, 1304-8	3.5	51
89	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
88	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
87	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
86	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
85	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
84	Inverted bi-prism phononic crystals for one-sided elastic wave transmission applications. <i>Applied Physics Letters</i> , 2012 , 100, 213503	3.4	28
83	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
82	Simultaneous two-axis vibration measurement of a nonmetallic cylinder by electromagnetic induction and metallic foil loops. <i>Journal of Mechanical Science and Technology</i> , 2011 , 25, 1925-1931	1.6	
81	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
80	Negative refraction experiments with guided shear-horizontal waves in thin phononic crystal plates. <i>Applied Physics Letters</i> , 2011 , 98, 011909	3.4	37
79	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
78	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
77	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
76	An SH wave magnetostrictive patch transducer for ultrasonic inspection of a plate-like structures 2010 ,		2
75	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

74	Feasibility study of a membrane-type magnetostrictive acoustic transducer for ultrasonic thrombolysis 2009 ,		1
73	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
72	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
71	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
70	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
69	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
68	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
67	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
66	Rigid body modeling issue in acoustical topology optimization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009 , 198, 1017-1030	5-7	21
65	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
64	Design Optimization of Compliant Mechanisms Consisting of Standardized Elements. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2009 , 131,	3	5
63	Unified Multi-Phase Modeling and Topology Optimization for Complex Vibro-Acoustic Systems consisting of Acoustic, Elastic and Poroelastic Media. <i>The Proceedings of the Computational Mechanics Conference</i> , 2009 , 2009.22, _-1_-_-2_	0	
62	Stacked-Element Connectivity Parameterization for Topology Optimization of Nonlinear Magnetic Systems. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 4754-4763	2	1
61	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
60	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
59	Polarization of a permanent magnet to yield specific magnetic field distribution. <i>Journal of Applied Physics</i> , 2008 , 104, 064915	2-5	2
58	Integrated topology and shape optimization software for compliant MEMS mechanism design. <i>Advances in Engineering Software</i> , 2008 , 39, 1-14	3-6	22
57	Dynamic analysis of a linear motion guide having rolling elements for precision positioning devices. <i>Journal of Mechanical Science and Technology</i> , 2008 , 22, 50-60	1-6	44

56	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
55	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
54	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
53	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
52	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
51	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
50	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
49	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
48	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
47	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
46	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
45	Shear horizontal wave transduction in plates by magnetostrictive gratings. <i>Journal of Mechanical Science and Technology</i> , 2007 , 21, 693-698	1.6	12
44	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
43	Radiation pattern of Lamb waves generated by a circular magnetostrictive patch transducer. <i>Applied Physics Letters</i> , 2007 , 90, 054102	3.4	17
42	Implementation Strategy for the Numerical Efficiency Improvement of the Multiscale Interpolation Wavelet-Galerkin Method. <i>Journal of Mechanical Science and Technology</i> , 2006 , 20, 110-124	1.6	1
41	Dispersion-based continuous wavelet transform for the analysis of elastic waves. <i>Journal of Mechanical Science and Technology</i> , 2006 , 20, 2147-2158	1.6	2
40	Inverse kinematics of binary manipulators by using the continuous-variable-based optimization method 2006 , 22, 33-42		11
39	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

38	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
37	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
36	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
35	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
34	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
33	Two-phase optimization for the design of multiple coils. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 4093-4095		3
32	Triangular checkerboard control using a wavelet-based method in topology optimization. <i>International Journal for Numerical Methods in Engineering</i> , 2005 , 63, 103-121	2-4	5
31	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
30	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
29	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
28	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
27	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
26	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
25	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
24	Filtering technique to control member size in topology design optimization. <i>Journal of Mechanical Science and Technology</i> , 2004 , 18, 253-261		8
23	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
22	Parallelized structural topology optimization for eigenvalue problems. <i>International Journal of Solids and Structures</i> , 2004 , 41, 2623-2641	3-1	52
21	Noncontact Damage Detection of a Rotating Shaft Using the Magnetostrictive Effect. <i>Journal of Nondestructive Evaluation</i> , 2003 , 22, 141-150	2-1	12

20	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
19	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
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