Li-Qun Chen

List of Publications by Citations

369 papers	7,433 citations	43 h-index	61 g-index
386 ext. papers	9,250 ext. citations	3.5 avg, IF	7.01 L-index

#	Paper	IF	Citations
369	Analysis and Control of Transverse Vibrations of Axially Moving Strings. *Applied Mechanics Reviews*, **2005**, 58, 91-116	8.6	212
368	Internal Resonance Energy Harvesting. *Journal of Applied Mechanics, Transactions ASME*, **2015**, 82,	2.7	161
367	Steady-state response of axially moving viscoelastic beams with pulsating speed: comparison of two nonlinear models. *International Journal of Solids and Structures*, **2005**, 42, 37-50	3.1	127
366	Galerkin methods for natural frequencies of high-speed axially moving beams. *Journal of Sound and Vibration*, **2010**, 329, 3484-3494	3.9	110
365	A Broadband Internally Resonant Vibratory Energy Harvester. *Journal of Vibration and Acoustics, Transactions of the ASME*, **2016**, 138,	1.6	92
364	Integration of a nonlinear energy sink and a giant magnetostrictive energy harvester. *Journal of Sound and Vibration*, **2017**, 391, 35-49	3.9	87
363	Convergence of Galerkin truncation for dynamic response of finite beams on nonlinear foundations under a moving load. *Journal of Sound and Vibration*, **2012**, 331, 2426-2442	3.9	85
362	Stability in parametric resonance of axially moving viscoelastic beams with time-dependent speed. *Journal of Sound and Vibration*, **2005**, 284, 879-891	3.9	83
361	Bifurcation and chaos of an axially accelerating viscoelastic beam. *Chaos, Solitons and Fractals*, **2005** , 23, 249-258	9.3	83
360	Nonlinear vibration isolation for fluid-conveying pipes using quasi-zero stiffness characteristics. *Mechanical Systems and Signal Processing*, **2019**, 121, 675-688	7.8	83
359	Nonlinear Energy Sink for Whole-Spacecraft Vibration Reduction. *Journal of Vibration and Acoustics, Transactions of the ASME*, **2017**, 139,	1.6	73
358	Nonlinear energy sink with inerter. *Mechanical Systems and Signal Processing*, **2019**, 125, 52-64	7.8	67
357	Vibration and stability of an axially moving viscoelastic beam with hybrid supports. *European Journal of Mechanics, A/Solids*, **2006**, 25, 996-1008	3.7	67
356	Designs, analysis, and applications of nonlinear energy sinks. *Nonlinear Dynamics*, **2020**, 100, 3061-3107	5	64
355	Dynamic stability of an axially accelerating viscoelastic beam. *European Journal of Mechanics, A/Solids*, **2004**, 23, 659-666	3.7	62
354	Non-Noether symmetries and conserved quantities of nonconservative dynamical systems. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2003**, 317, 255-259	2.3	62
353	Dynamic stability in parametric resonance of axially accelerating viscoelastic Timoshenko beams. *Journal of Sound and Vibration*, **2010**, 329, 547-565	3.9	60

352	Evolution of the double-jumping in pipes conveying fluid flowing at the supercritical speed. *International Journal of Non-Linear Mechanics*, **2014**, 58, 11-21	2.8	59
351	Forced Vibrations of Supercritically Transporting Viscoelastic Beams. *Journal of Vibration and Acoustics, Transactions of the ASME*, **2012**, 134,	1.6	58
350	Experimental Investigation of a Two-Stage Nonlinear Vibration Isolation System With High-Static-Low-Dynamic Stiffness. *Journal of Applied Mechanics, Transactions ASME*, **2017**, 84,	2.7	56
349	Steady-State Transverse Response in Coupled Planar Vibration of Axially Moving Viscoelastic Beams. *Journal of Vibration and Acoustics, Transactions of the ASME*, **2010**, 132,	1.6	56
348	Snap-through piezoelectric energy harvesting. *Journal of Sound and Vibration*, **2014**, 333, 4314-4325	3.9	54
347	Nonlinear vibration isolation via a circular ring. *Mechanical Systems and Signal Processing*, **2020**, 136, 106490	7.9	53
346	Impulse-induced vibration suppression of an axially moving beam with parallel nonlinear energy sinks. *Nonlinear Dynamics*, **2015**, 82, 61-71	5	52
345	Combination and principal parametric resonances of axially accelerating viscoelastic beams: Recognition of longitudinally varying tensions. *Journal of Sound and Vibration*, **2011**, 330, 5598-5614	3.9	52
344	Nonlinear vibration of a slightly curved beam with quasi-zero-stiffness isolators. *Nonlinear Dynamics*, **2019**, 95, 2367-2382	5	52
343	Numerical and experimental investigation on stochastic dynamic load of a heavy duty vehicle. *Applied Mathematical Modelling*, **2010**, 34, 2698-2710	4.5	51
342	New Variable Separation Excitations of a (2+1)-Dimensional Broer-Kaup-Kupershmidt System Obtained by an Extended Mapping Approach. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2004**, 59, 912-918	1.4	51
341	Primary resonance of traveling viscoelastic beam under internal resonance. *Applied Mathematics and Mechanics (English Edition)*, **2017**, 38, 1-14	3.2	50
340	Vibrations and Stability of an Axially Moving Rectangular Composite Plate. *Journal of Applied Mechanics, Transactions ASME*, **2011**, 78,	2.7	50
339	Transient responses of an axially accelerating viscoelastic string constituted by a fractional differentiation law. *Journal of Sound and Vibration*, **2004**, 278, 861-871	3.9	50
338	The regular and chaotic vibrations of an axially moving viscoelastic string based on fourth order Galerkin truncaton. *Journal of Sound and Vibration*, **2003**, 261, 764-773	3.9	50
337	Solvability condition in multi-scale analysis of gyroscopic continua. *Journal of Sound and Vibration*, **2008**, 309, 338-342	3.9	48
336	Reducing thermal shock-induced vibration of an axially moving beam via a nonlinear energy sink. *Nonlinear Dynamics*, **2017**, 87, 1159-1167	5	46
335	Dynamical analysis of axially moving plate by finite difference method. *Nonlinear Dynamics*, **2012**, 67, 997-1006	5	46

334	Natural frequencies, modes and critical speeds of axially moving Timoshenko beams with different boundary conditions. *International Journal of Mechanical Sciences*, **2008**, 50, 1448-1458	5.5	46
333	Perturbation of symmetries of rotational relativistic Birkhoffian systems and its inverse problem. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2004**, 324, 95-103	2.3	46
332	Internal resonance in axially loaded beam energy harvesters with an oscillator to enhance the bandwidth. *Nonlinear Dynamics*, **2016**, 85, 2507-2520	5	46
331	On the transmissibilities of nonlinear vibration isolation system. *Journal of Sound and Vibration*, **2016**, 375, 28-37	3.9	46
330	Integration of a nonlinear energy sink and a piezoelectric energy harvester. *Applied Mathematics and Mechanics (English Edition)*, **2017**, 38, 1019-1030	3.2	45
329	Internal resonance of pipes conveying fluid in the supercritical regime. *Nonlinear Dynamics*, **2012**, 67, 1505-1514	5	45
328	Elimination of multimode resonances of composite plate by inertial nonlinear energy sinks. *Mechanical Systems and Signal Processing*, **2020**, 135, 106383	7.8	45
327	External and internal resonances of the pipe conveying fluid in the supercritical regime. *Journal of Sound and Vibration*, **2013**, 332, 2318-2337	3.9	44
326	Dynamic stability of axially accelerating Timoshenko beam: Averaging method. *European Journal of Mechanics, A/Solids*, **2010**, 29, 81-90	3.7	43
325	Complex dynamics of a harmonically excited structure coupled with a nonlinear energy sink. *Acta Mechanica Sinica/Lixue Xuebao*, **2017**, 33, 801-822	2	42
324	An inertial nonlinear energy sink. *Journal of Sound and Vibration*, **2019**, 450, 199-213	3.9	42
323	Internal resonance in forced vibration of coupled cantilevers subjected to magnetic interaction. *Journal of Sound and Vibration*, **2015**, 354, 196-218	3.9	42
322	Stability of axially accelerating viscoelastic beams: multi-scale analysis with numerical confirmations. *European Journal of Mechanics, A/Solids*, **2008**, 27, 1108-1120	3.7	42
321	Vibration suppression of composite laminated plate with nonlinear energy sink. *Acta Astronautica*, **2016**, 123, 109-115	2.9	41
320	The evaluation of a nonlinear energy sink absorber based on the transmissibility. *Mechanical Systems and Signal Processing*, **2019**, 125, 99-122	7.8	41
319	Nonlinear free transverse vibration of an axially moving beam: Comparison of two models. *Journal of Sound and Vibration*, **2007**, 299, 348-354	3.9	41
318	Vibration of vehicle–pavement coupled system based on a Timoshenko beam on a nonlinear foundation. *Journal of Sound and Vibration*, **2014**, 333, 6623-6636	3.9	40
317	Steady-state response of a fluid-conveying pipe with 3:1 internal resonance in supercritical regime. *Nonlinear Dynamics*, **2016**, 86, 795-809	5	40

316	A lever-type nonlinear energy sink. *Journal of Sound and Vibration*, **2018**, 437, 119-134	3.9	40
315	Semifolded Localized Coherent Structures in General (2+1)-dimensional Korteweg de Vries System*. *Journal of the Physical Society of Japan*, **2004**, 73, 293-295	1.5	39
314	Nonlinear isolation of transverse vibration of pre-pressure beams. *Journal of Sound and Vibration*, **2019**, 442, 738-751	3.9	39
313	Nonlinear dynamics of axially moving viscoelastic Timoshenko beam under parametric and external excitations. *Applied Mathematics and Mechanics (English Edition)*, **2015**, 36, 971-984	3.2	38
312	Solitons with fission and fusion behaviors in a variable coefficient Broer-Kaup system. *Chaos, Solitons and Fractals*, **2005**, 24, 1347-1351	9.3	38
311	Stochastic averaging of energy harvesting systems. *International Journal of Non-Linear Mechanics*, **2016**, 85, 174-187	2.8	38
310	Natural frequencies of nonlinear vibration of axially moving beams. *Nonlinear Dynamics*, **2011**, 63, 125-134	5	37
309	Chaotic attitude motion of a magnetic rigid spacecraft and its control. *International Journal of Non-Linear Mechanics*, **2002**, 37, 493-504	2.8	37
308	Simulations of transverse vibrations of an axially moving string: a modified difference approach. *Applied Mathematics and Computation*, **2005**, 166, 596-607	2.7	37
307	New Family of Exact Solutions and Chaotic Soltions of Generalized Broer-Kaup System in (2+1)-Dimensions via an Extended Mapping Approach. *Communications in Theoretical Physics*, **2005**, 44, 203-208	2.4	37
306	High-static-low-dynamic-stiffness vibration isolation enhanced by damping nonlinearity. *Science China Technological Sciences*, **2019**, 62, 1103-1110	3.5	37
305	A dual-functional metamaterial for integrated vibration isolation and energy harvesting. *Journal of Sound and Vibration*, **2021**, 509, 116251	3.9	37
304	Galerkin method for steady-state response of nonlinear forced vibration of axially moving beams at supercritical speeds. *Journal of Sound and Vibration*, **2012**, 331, 1612-1623	3.9	36
303	Nonlinear vibrations of axially moving Timoshenko beams under weak and strong external excitations. *Journal of Sound and Vibration*, **2009**, 320, 1078-1099	3.9	36
302	Asymptotic stability analysis with numerical confirmation of an axially accelerating beam constituted by the standard linear solid model. *Journal of Sound and Vibration*, **2009**, 328, 456-466	3.9	36
301	Vibration isolation and energy harvesting integrated in a Stewart platform with high static and low dynamic stiffness. *Applied Mathematical Modelling*, **2021**, 89, 249-267	4.5	36
300	Asymptotic analysis of axially accelerating viscoelastic strings. *International Journal of Engineering Science*, **2008**, 46, 976-985	5.7	35
299	Transverse nonlinear dynamics of axially accelerating viscoelastic beams based on 4-term Galerkin truncation. *Chaos, Solitons and Fractals*, **2006**, 27, 748-757	9.3	35

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297	Dynamic response to a moving load of a Timoshenko beam resting on a nonlinear viscoelastic foundation. *Acta Mechanica Sinica/Lixue Xuebao*, **2013**, 29, 718-727	2	34
296	Stability analysis and numerical confirmation in parametric resonance of axially moving viscoelastic plates with time-dependent speed. *European Journal of Mechanics, A/Solids*, **2013**, 37, 106-121	3.7	34
295	Forced vibration of axially moving beam with internal resonance in the supercritical regime. *International Journal of Mechanical Sciences*, **2017**, 131-132, 81-94	5.5	34
294	A piezoelectric energy harvester based on internal resonance. *Acta Mechanica Sinica/Lixue Xuebao*, **2015**, 31, 223-228	2	34
293	Dynamic response of an infinite Timoshenko beam on a nonlinear viscoelastic foundation to a moving load. *Nonlinear Dynamics*, **2013**, 73, 285-298	5	34
292	Euler–Lagrange equation from nonlocal-in-time kinetic energy of nonconservative system. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2009**, 374, 106-109	2.3	34
291	Parametric resonance of axially moving Timoshenko beams with time-dependent speed. *Nonlinear Dynamics*, **2009**, 58, 715-724	5	34
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288	Stochastic resonance in a nonlinear mechanical vibration isolation system. *Journal of Sound and Vibration*, **2016**, 370, 221-229	3.9	33
287	Non-Noether symmetries and Lutzky conserved quantities for mechanico-electrical systems. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2006**, 358, 5-10	2.3	33
286	Bifurcation and chaos of an axially moving viscoelastic string. *Mechanics Research Communications*, **2002**, 29, 81-90	2.2	33
285	A bio-inspired isolator based on characteristics of quasi-zero stiffness and bird multi-layer neck. *Mechanical Systems and Signal Processing*, **2020**, 145, 106967	7.8	33
284	Nonlinear transverse vibration of axially accelerating strings with exact internal resonances and longitudinally varying tensions. *Nonlinear Dynamics*, **2014**, 76, 1443-1468	5	32
283	Attitude control of a rigid spacecraft with two momentum wheel actuators using genetic algorithm. *Acta Astronautica*, **2004**, 55, 3-8	2.9	32
282	Complexification-Averaging Analysis on a Giant Magnetostrictive Harvester Integrated With a Nonlinear Energy Sink. *Journal of Vibration and Acoustics, Transactions of the ASME*, **2018**, 140,	1.6	31
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279	New variable separation excitations of (2 + 1)-dimensional dispersive long-water wave system obtained by an extended mapping approach. *Chaos, Solitons and Fractals*, **2005**, 23, 1741-1748	9.3	31
278	Nonlinear dynamics of a circular piezoelectric plate for vibratory energy harvesting. *Communications in Nonlinear Science and Numerical Simulation*, **2018**, 59, 651-656	3.7	31
277	Nonlinear vibration isolation of a viscoelastic beam. *Nonlinear Dynamics*, **2018**, 92, 325-349	5	30
276	Stability of axially accelerating viscoelastic beams: asymptotic perturbation analysis and differential quadrature validation. *European Journal of Mechanics, A/Solids*, **2009**, 28, 786-791	3.7	30
275	Second order adjoint sensitivity analysis of multibody systems described by differential□lgebraic equations. *Multibody System Dynamics*, **2007**, 18, 599-617	2.8	30
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272	Resonance response interaction without internal resonance in vibratory energy harvesting. *Mechanical Systems and Signal Processing*, **2019**, 121, 767-776	7.8	30
271	Nonlinear free transverse vibrations of in-plane moving plates: Without and with internal resonances. *Journal of Sound and Vibration*, **2011**, 330, 110-126	3.9	29
270	Vibration around non-trivial equilibrium of a supercritical Timoshenko pipe conveying fluid. *Journal of Sound and Vibration*, **2018**, 428, 104-118	3.9	29
269	On Noether symmetries and form invariance of mechanico-electrical systems. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2004**, 331, 138-152	2.3	28
268	Nonlinear vibrations of a slightly curved beam with nonlinear boundary conditions. *International Journal of Mechanical Sciences*, **2020**, 168, 105294	5.5	28
267	Nonlinear vibration of a traveling belt with non-homogeneous boundaries. *Journal of Sound and Vibration*, **2018**, 424, 78-93	3.9	27
266	Asymptotic Nonlinear Behaviors in Transverse Vibration of an Axially Accelerating Viscoelastic String. *Nonlinear Dynamics*, **2004**, 35, 347-360	5	27
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263	Nonlinear dynamics of axially accelerating viscoelastic beams based on differential quadrature. *Acta Mechanica Solida Sinica*, **2009**, 22, 267-275	2	26

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261	The chaotic response of the viscoelastic traveling string: an integral constitutive law. *Chaos, Solitons and Fractals*, **2004**, 21, 349-357	9.3	26
260	Approximate and numerical analysis of nonlinear forced vibration of axially moving viscoelastic beams. *Acta Mechanica Sinica/Lixue Xuebao*, **2011**, 27, 426-437	2	25
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258	Parametric Stability of Axially Accelerating Viscoelastic Beams With the Recognition of Longitudinally Varying Tensions. *Journal of Vibration and Acoustics, Transactions of the ASME*, **2012**, 134,	1.6	25
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256	Transverse vibrations of an axially accelerating viscoelastic string with geometric nonlinearity. *Journal of Engineering Mathematics*, **2004**, 48, 171-182	1.2	25
255	A conserved quantity and the stability of axially moving nonlinear beams. *Journal of Sound and Vibration*, **2005**, 286, 663-668	3.9	25
254	Forced vibration control of an axially moving beam with an attached nonlinear energy sink. *Acta Mechanica Solida Sinica*, **2017**, 30, 674-682	2	24
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252	Peakon, compacton and loop excitations with periodic behavior in KdV type models related to Schr□dinger system. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2005**, 340, 397-402	2.3	24
251	Two-span piezoelectric beam energy harvesting. *International Journal of Mechanical Sciences*, **2020**, 175, 105532	5.5	23
250	Energy harvesting of monostable Duffing oscillator under Gaussian white noise excitation. *Mechanics Research Communications*, **2013**, 53, 85-91	2.2	23
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247	A numerical method for simulating transverse vibrations of an axially moving string. *Applied Mathematics and Computation*, **2005**, 160, 411-422	2.7	23
246	Nonlinear energy harvesting based on a modified snap-through mechanism. *Applied Mathematics and Mechanics (English Edition)*, **2019**, 40, 167-180	3.2	23
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244	A multifunctional lattice sandwich structure with energy harvesting and nonlinear vibration control. *Composite Structures*, **2019**, 221, 110875	5.3	22
243	Stochastic averaging based on generalized harmonic functions for energy harvesting systems. *Journal of Sound and Vibration*, **2016**, 377, 264-283	3.9	22
242	Stability in parametric resonance of axially accelerating beams constituted by Boltzmann's superposition principle. *Journal of Sound and Vibration*, **2006**, 289, 54-65	3.9	22
241	Vibration reduction evaluation of a linear system with a nonlinear energy sink under a harmonic and random excitation. *Applied Mathematics and Mechanics (English Edition)*, **2020**, 41, 1-14	3.2	22
240	Energy harvesting via nonlinear energy sink for whole-spacecraft. *Science China Technological Sciences*, **2019**, 62, 1483-1491	3.5	21
239	Parametric and internal resonances of in-plane accelerating viscoelastic plates. *Acta Mechanica*, **2012**, 223, 415-431	2.1	21
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234	Nonlinear frequencies and forced responses of pipes conveying fluid via a coupled Timoshenko model. *Journal of Sound and Vibration*, **2019**, 455, 241-255	3.9	20
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232	Nonlinear characteristic of a circular composite plate energy harvester: experiments and simulations. *Nonlinear Dynamics*, **2017**, 90, 2495-2506	5	20
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229	Frequency-preserved non-reciprocal acoustic propagation in a granular chain. *Applied Physics Letters*, **2018**, 112, 181904	3.4	19
228	Super-harmonic resonance and multi-frequency responses of a super-critical translating beam. *Journal of Sound and Vibration*, **2016**, 385, 267-283	3.9	19
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223	The effects of horizontal singular straight line in a generalized nonlinear Klein□Gordon model equation. *Nonlinear Dynamics*, **2013**, 72, 789-801	5	18
222	Asymptotic analysis on nonlinear vibration of axially accelerating viscoelastic strings with the standard linear solid model. *Journal of Engineering Mathematics*, **2010**, 67, 205-218	1.2	18
221	Nonlinear Torsional Vibration Absorber for Flexible Structures. *Journal of Applied Mechanics, Transactions ASME*, **2019**, 86,	2.7	18
220	Equilibrium bifurcation of high-speed axially moving Timoshenko beams. *Acta Mechanica*, **2016**, 227, 3001-3014	2.1	17
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206	Adaptive vibration reduction of an axially moving string via a tensioner. *International Journal of Mechanical Sciences*, **2006**, 48, 1409-1415	5.5	15
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197	A modified open-plus-closed-loop approach to control chaos in nonlinear oscillations. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1998**, 245, 87-90	2.3	14
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