

Yuli Starosvetsky

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

647
citations

687363

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all docs

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times ranked

251
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | New family of solitary waves in granular dimer chains with no precompression. <i>Physical Review E</i> , 2011, 83, 036606. | 2.1 | 105 |
| 2 | Traveling waves and localized modes in one-dimensional homogeneous granular chains with no precompression. <i>Physical Review E</i> , 2010, 82, 026603. | 2.1 | 89 |
| 3 | Nonlinear normal modes and band zones in granular chains with no pre-compression. <i>Nonlinear Dynamics</i> , 2011, 63, 359-385. | 5.2 | 75 |
| 4 | Dynamic instabilities in coupled oscillators induced by geometrically nonlinear damping. <i>Nonlinear Dynamics</i> , 2012, 67, 807-827. | 5.2 | 58 |
| 5 | Strongly Nonlinear Beat Phenomena and Energy Exchanges in Weakly Coupled Granular Chains on Elastic Foundations. <i>SIAM Journal on Applied Mathematics</i> , 2012, 72, 337-361. | 1.8 | 52 |
| 6 | Nonlinear Resonances Leading to Strong Pulse Attenuation in Granular Dimer Chains. <i>Journal of Nonlinear Science</i> , 2013, 23, 363-392. | 2.1 | 45 |
| 7 | Scattering of Solitary Waves and Excitation of Transient Breathers in Granular Media by Light Intruders and No Precompression. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2012, 79, . | 2.2 | 39 |
| 8 | Frequency bands of strongly nonlinear homogeneous granular systems. <i>Physical Review E</i> , 2013, 88, 012206. | 2.1 | 33 |
| 9 | Solitary waves in diatomic chains. <i>Physical Review E</i> , 2016, 93, 042210. | 2.1 | 33 |
| 10 | Strongly nonlinear traveling waves in granular dimer chains. <i>Mechanical Systems and Signal Processing</i> , 2013, 39, 91-107. | 8.0 | 25 |
| 11 | Nonlinear mixed solitaryâ€”Shear waves and pulse equi-partition in a granular network. <i>Physica D: Nonlinear Phenomena</i> , 2015, 291, 45-61. | 2.8 | 21 |
| 12 | Primary wave transmission in systems of elastic rods with granular interfaces. <i>Wave Motion</i> , 2011, 48, 568-585. | 2.0 | 18 |
| 13 | Nonlinear Pulse Equipartition in Weakly Coupled Ordered Granular Chains With No Precompression. <i>Journal of Computational and Nonlinear Dynamics</i> , 2013, 8, . | 1.2 | 14 |
| 14 | Nonlinear resonances in a general class of granular dimers with no pre-compression. <i>Granular Matter</i> , 2013, 15, 327-347. | 2.2 | 13 |
| 15 | Effective particles and classification of the dynamics of homogeneous granular chains with no precompression. <i>Physical Review E</i> , 2012, 85, 036606. | 2.1 | 11 |
| 16 | Non-resonant damped transitions resembling continuous resonance scattering in coupled oscillators with essential nonlinearities. <i>Physica D: Nonlinear Phenomena</i> , 2012, 241, 964-975. | 2.8 | 8 |
| 17 | Breather Solutions of the Discrete p -Schrödinger Equation. <i>Advances in Dynamics, Patterns, Cognition</i> , 2014, , 77-115. | 0.3 | 7 |
| 18 | Classification of periodic orbits of two-dimensional homogeneous granular crystals with no pre-compression. <i>Nonlinear Dynamics</i> , 2014, 76, 673-696. | 5.2 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Nonlinear Targeted Energy Transfer and Macroscopic Analogue of the Quantum Landau-Zener Effect in Coupled Granular Chains. Foundations in Engineering Mechanics, 2018, , 293-325. | 0.1 | 0 |