

SÃ©bastien Grondel

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

939
citations

430874

18
h-index

454955

30
g-index

50
all docs

50
docs citations

50
times ranked

733
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Modeling and Experimental Analysis of the Mass Loading Effect on Micro-Ionic Polymer Actuators Using Step Response Identification. <i>Journal of Microelectromechanical Systems</i> , 2021, 30, 243-252. | 2.5 | 1 |
| 2 | Very large amplitude vibrations of flexible structures: Experimental identification and validation of a quadratic drag damping model. <i>Journal of Fluids and Structures</i> , 2020, 97, 103056. | 3.4 | 18 |
| 3 | Effects of the electrical limit conditions on the electromechanical behavior of piezoelectric transducer arrays. , 2020, , . | | 0 |
| 4 | Demonstrating Full Integration Process for Electroactive Polymer Microtransducers to Realize Soft Microchips. , 2020, , . | | 4 |
| 5 | PEDOT:PSS-based micromuscles and microsensors fully integrated in flexible chips. <i>Smart Materials and Structures</i> , 2020, 29, 09LT01. | 3.5 | 4 |
| 6 | Dynamic simulation and optimization of artificial insect-sized flapping wings for a bioinspired kinematics using a two resonant vibration modes combination. <i>Journal of Sound and Vibration</i> , 2019, 460, 114883. | 3.9 | 5 |
| 7 | One-dimensional equivalent circuit for ultrasonic transducer arrays. <i>Applied Acoustics</i> , 2019, 156, 246-257. | 3.3 | 17 |
| 8 | Ultrathin electrochemically driven conducting polymer actuators: fabrication and electrochemomechanical characterization. <i>Electrochimica Acta</i> , 2018, 265, 670-680. | 5.2 | 23 |
| 9 | Nonlinear dynamic modeling of ultrathin conducting polymer actuators including inertial effects. <i>Smart Materials and Structures</i> , 2018, 27, 115032. | 3.5 | 10 |
| 10 | Two modes resonant combined motion for insect wings kinematics reproduction and lift generation. <i>Europhysics Letters</i> , 2018, 121, 66001. | 2.0 | 11 |
| 11 | A validated simulation of energy harvesting with piezoelectric cantilever beams on a vehicle suspension using Bond Graph approach. <i>Mechatronics</i> , 2018, 53, 202-214. | 3.3 | 19 |
| 12 | Microfabricated PEDOT trilayer actuators: synthesis, characterization, and modeling. , 2017, , . | | 4 |
| 13 | Linear finite-difference bond graph model of an ionic polymer actuator. <i>Smart Materials and Structures</i> , 2017, 26, 095055. | 3.5 | 6 |
| 14 | Coupling of Two Resonant Modes for Insect Wing Mimicking in a Flexible-Wing NAV and Generate Lift. , 2017, , . | | 1 |
| 15 | Modeling and simulation of the vertical take off and energy consumption of a vibrating wing nano air vehicle. , 2016, , . | | 1 |
| 16 | Bond Graph modeling for fault detection and isolation of a train door mechatronic system. <i>Control Engineering Practice</i> , 2016, 49, 212-224. | 5.5 | 34 |
| 17 | A Model to Predict Modal Radiation by Finite-sized Sources in Composite Plates with Account of Caustics. <i>Physics Procedia</i> , 2015, 70, 622-625. | 1.2 | 0 |
| 18 | Real-time monitoring and diagnosis of a train door mechatronic system. , 2014, , . | | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Modeling and evaluation of power transmission of flapping wing nano air vehicle. , 2014, , . | | 6 |
| 20 | Extension of the crosstalk cancellation method in ultrasonic transducer arrays from the harmonic regime to the transient one. Ultrasonics, 2014, 54, 720-724. | 3.9 | 3 |
| 21 | Electrical method for crosstalk cancellation in transducer arrays. NDT and E International, 2014, 62, 115-121. | 3.7 | 15 |
| 22 | Simulation and measurement of the steady-state temperature in multi-core cables. Electric Power Systems Research, 2014, 116, 54-66. | 3.6 | 23 |
| 23 | Reducing crosstalk in array structures by controlling the excitation voltage of individual elements: A feasibility study. Ultrasonics, 2013, 53, 1135-1140. | 3.9 | 12 |
| 24 | Numerical study of the cross-talk effects in acoustical transducer arrays and correction. Proceedings of Meetings on Acoustics, 2013, , . | 0.3 | 4 |
| 25 | Application of the Piezoelectricity in an Active and Passive Health Monitoring System. , 2013, , . | | 0 |
| 26 | Power Harvesting Capabilities of SHM Ultrasonic Sensors. Smart Materials Research, 2012, 2012, 1-7. | 0.5 | 3 |
| 27 | Microfabrication of bio-inspired SU-8 wings and initial analyses of their aeroelastic behaviours for microrobotic insects. , 2011, , . | | 0 |
| 28 | Improved micromachining of all SU-8 3D structures for a biologically-inspired flying robot. Microelectronic Engineering, 2011, 88, 2218-2224. | 2.4 | 23 |
| 29 | Design and fabrication of insect-inspired composite wings for MAV application using MEMS technology. Journal of Micromechanics and Microengineering, 2011, 21, 125020. | 2.6 | 36 |
| 30 | Applicability of acoustic noise correlation for structural health monitoring in nondiffuse field conditions. Applied Physics Letters, 2009, 95, 094104. | 3.3 | 28 |
| 31 | Experimental study of the A0 and S0 Lamb waves interaction with symmetrical notches. Ultrasonics, 2009, 49, 202-205. | 3.9 | 32 |
| 32 | Study of the fundamental Lamb modes interaction with asymmetrical discontinuities. NDT and E International, 2008, 41, 330-340. | 3.7 | 51 |
| 33 | Study of the fundamental Lamb modes interaction with symmetrical notches. NDT and E International, 2008, 41, 1-9. | 3.7 | 51 |
| 34 | Application of a pseudo-3D modeling to Lamb waves generation by a surface-bonded apodized transducer: Experimental results. , 2008, , . | | 0 |
| 35 | Modeling a surface-mounted Lamb wave emission-reception system: Applications to structural health monitoring. Journal of the Acoustical Society of America, 2008, 124, 3521-3527. | 1.1 | 6 |
| 36 | Experimental Lamb mode identification in a plate containing a hole using dual signal processing. Measurement Science and Technology, 2008, 19, 125703. | 2.6 | 3 |

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|----|---|-----|-----------|
| 37 | Vibrating wing analysis with passive torsion for micro flying robot. , 2008, , . | | 2 |
| 38 | Design, analysis and fabrication of high frequency piezoelectric transducers. Journal of Electroceramics, 2007, 19, 395-398. | 2.0 | 1 |
| 39 | Pseudo-3D modeling of a surface-bonded Lamb wave source. Journal of the Acoustical Society of America, 2006, 119, 2575-2578. | 1.1 | 16 |
| 40 | Optimized piezoelectric sensor for a specific application: Detection of Lamb waves. Sensors and Actuators A: Physical, 2006, 126, 362-368. | 4.1 | 20 |
| 41 | Health monitoring of a composite wingbox structure. Ultrasonics, 2004, 42, 819-824. | 3.9 | 77 |
| 42 | Signal processing for damage detection using two different array transducers. Ultrasonics, 2004, 42, 803-806. | 3.9 | 27 |
| 43 | Transient modeling of Lamb waves generated in viscoelastic materials by surface bonded piezoelectric transducers. Journal of the Acoustical Society of America, 2004, 116, 133-141. | 1.1 | 16 |
| 44 | Damage assessment in composites by Lamb waves and wavelet coefficients. Smart Materials and Structures, 2003, 12, 393-402. | 3.5 | 87 |
| 45 | Design of optimal configuration for generating A0 Lamb mode in a composite plate using piezoceramic transducers. Journal of the Acoustical Society of America, 2002, 112, 84-90. | 1.1 | 89 |
| 46 | Fatigue crack monitoring of riveted aluminium strap joints by Lamb wave analysis and acoustic emission measurement techniques. NDT and E International, 2002, 35, 137-146. | 3.7 | 88 |
| 47 | <title>Damage assessment in smart composite structures: the DAMASCOS program</title>. , 2001, 4327, 223. | | 10 |
| 48 | Modeling of integrated Lamb waves generation systems using a coupled finite elementâ€“normal modes expansion method. Ultrasonics, 2000, 38, 522-526. | 3.9 | 23 |
| 49 | The propagation of Lamb waves in multilayered plates: phase-velocity measurement. Measurement Science and Technology, 1999, 10, 348-353. | 2.6 | 24 |
| 50 | Experimental study of the fundamental Lamb waves interaction with symmetrical notches. , 0, , . | | 3 |