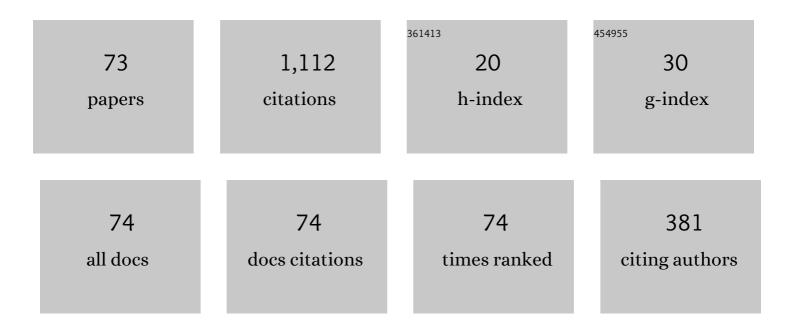
## Wim T Van Horssen

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/152233/publications.pdf Version: 2024-02-01



| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | On the transversal vibrations of a conveyor belt with a low and time-varying velocity. Part I: the string-like case. Journal of Sound and Vibration, 2003, 264, 117-133.                    | 3.9 | 84        |
| 2  | On the transversal vibrations of a conveyor belt with a low and time-varying velocity. Part II: the beam-like case. Journal of Sound and Vibration, 2003, 267, 1007-1027.                   | 3.9 | 70        |
| 3  | Title is missing!. Nonlinear Dynamics, 2003, 31, 197-223.   | 5.2 | 62        |
| 4  | On variable length induced vibrations of a vertical string. Journal of Sound and Vibration, 2014, 333, 2432-2449.   | 3.9 | 49        |
| 5  | On the periodic solutions of a generalized non-linear Van der Pol oscillator. Journal of Sound and<br>Vibration, 2003, 268, 209-215.  | 3.9 | 40        |
| 6  | On the influence of lateral vibrations of supports for an axially moving string. Journal of Sound and Vibration, 2003, 268, 323-330.  | 3.9 | 38        |
| 7  | On the construction of the solution of an equation describing an axially moving string. Journal of Sound and Vibration, 2005, 287, 359-366.   | 3.9 | 37        |
| 8  | On transversal vibrations of an axially moving string with a time-varying velocity. Nonlinear Dynamics, 2007, 50, 315-323.  | 5.2 | 34        |
| 9  | On the transversal vibrations of an axially moving continuum with a time-varying velocity: Transient from string to beam behavior. Journal of Sound and Vibration, 2009, 325, 959-973.      | 3.9 | 33        |
| 10 | On a cascade of autoresonances in an elevator cable system. Nonlinear Dynamics, 2015, 80, 1613-1630.  | 5.2 | 33        |
| 11 | On resonances and the applicability of Galerkin× <sup>3</sup> s truncation method for an axially moving string with time-varying velocity. Journal of Sound and Vibration, 2015, 344, 1-17. | 3.9 | 30        |
| 12 | Resonances and vibrations in an elevator cable system due to boundary sway. Journal of Sound and Vibration, 2018, 424, 272-292.   | 3.9 | 30        |
| 13 | On Boundary Damping for an Axially Moving Tensioned Beam. Journal of Vibration and Acoustics,<br>Transactions of the ASME, 2012, 134, .   | 1.6 | 29        |
| 14 | On the transversal vibrations of a conveyor belt: Applicability of simplified models. Journal of Sound and Vibration, 2008, 313, 822-829.   | 3.9 | 28        |
| 15 | On transverse vibrations of a vertical Timoshenko beam. Journal of Sound and Vibration, 2008, 314, 161-179.   | 3.9 | 28        |
| 16 | Analytical approximations of the period of a generalized nonlinear van der Pol oscillator. Journal of<br>Sound and Vibration, 2006, 295, 1099-1104.   | 3.9 | 25        |
| 17 | On the Transverse, Low Frequency Vibrations of a Traveling String With Boundary Damping. Journal of Vibration and Acoustics, Transactions of the ASME, 2015, 137, .                         | 1.6 | 24        |
| 18 | On the effect of the bending stiffness on the damping properties of a tensioned cable with an attached tuned-mass-damper. Engineering Structures, 2009, 31, 1276-1285.                      | 5.3 | 22        |

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|----|---|-----|-----------|
| 19 | On the free vibrations of an oscillator with a periodically time-varying mass. Journal of Sound and Vibration, 2006, 298, 1166-1172.  | 3.9 | 21        |
| 20 | On wave reflections and energetics for a semi-infinite traveling string with a nonclassical boundary support. Journal of Sound and Vibration, 2016, 370, 336-350.                                 | 3.9 | 21        |
| 21 | Asymptotics for a class of semilinear hyperbolic equations with an application to a problem with a quadratic nonlinearity. Nonlinear Analysis: Theory, Methods & Applications, 1992, 19, 501-530. | 1.1 | 20        |
| 22 | On aspects of damping for a vertical beam with a tuned mass damper at the top. Nonlinear Dynamics, 2007, 50, 169-190.   | 5.2 | 20        |
| 23 | ON INTERACTIONS OF OSCILLATION MODES FOR A WEAKLY NON-LINEAR UNDAMPED ELASTIC BEAM WITH AN EXTERNAL FORCE. Journal of Sound and Vibration, 2000, 235, 201-217.                                    | 3.9 | 19        |
| 24 | On the multiple scales perturbation method for difference equations. Nonlinear Dynamics, 2009, 55, 401-418.   | 5.2 | 18        |
| 25 | On Boundary Damping for a Weakly Nonlinear Wave Equation. Nonlinear Dynamics, 2002, 30, 179-191.  | 5.2 | 16        |
| 26 | On the forced vibrations of an oscillator with a periodically time-varying mass. Journal of Sound and Vibration, 2010, 329, 721-732.  | 3.9 | 16        |
| 27 | Reflection and damping properties for semi-infinite string equations with non-classical boundary conditions. Journal of Sound and Vibration, 2015, 336, 179-190.                                  | 3.9 | 16        |
| 28 | On the stability properties of a damped oscillator with a periodically time-varying mass. Journal of Sound and Vibration, 2011, 330, 3257-3269.   | 3.9 | 15        |
| 29 | On the periods of the periodic solutions of the non-linear oscillator equation. Journal of Sound and Vibration, 2003, 260, 961-964.   | 3.9 | 14        |
| 30 | On the asymptotic approximation of the solution of an equation for a non-constant axially moving string. Journal of Sound and Vibration, 2016, 367, 203-218.                                      | 3.9 | 13        |
| 31 | Dynamic simulation of a multi-cable driven parallel suspension platform with slack cables. Mechanism and Machine Theory, 2018, 126, 329-343.  | 4.5 | 13        |
| 32 | Solving systems of nonlinear difference equations by the multiple scales perturbation method.<br>Nonlinear Dynamics, 2012, 69, 1509-1516.   | 5.2 | 11        |
| 33 | On transversal oscillations of a vertically translating string with small time-harmonic length variations. Journal of Sound and Vibration, 2016, 383, 339-348.                                    | 3.9 | 11        |
| 34 | On the free vibrations of a rectangular plate with two opposite sides simply supported and the other sides attached to linear springs. Journal of Sound and Vibration, 2004, 278, 1081-1093.      | 3.9 | 10        |
| 35 | On asymptotic approximations of first integrals for second order difference equations. Nonlinear Dynamics, 2010, 61, 535-551.   | 5.2 | 10        |
| 36 | On a Rayleigh Wave Equation with Boundary Damping. Nonlinear Dynamics, 2003, 33, 399-429.   | 5.2 | 9         |

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|----|--|-----|-----------|
| 37 | On the nonlinear dynamics of a single degree of freedom oscillator with a time-varying mass. Journal of Sound and Vibration, 2012, 331, 1887-1897.   | 3.9 | 9         |
| 38 | On the Weakly Damped Vibrations of a String Attached to a Spring Mass Dashpot System. JVC/Journal of Vibration and Control, 2003, 9, 1231-1248.  | 2.6 | 8         |
| 39 | Bifurcation of Limit Cycles in a Particular Class of Quadratic Systems with Two Centers. Journal of Differential Equations, 1994, 114, 538-569.  | 2.2 | 7         |
| 40 | Asymptotic approximations of first integrals for a nonlinear oscillator. Nonlinear Analysis: Theory,<br>Methods & Applications, 2002, 51, 1327-1346.   | 1.1 | 7         |
| 41 | On the weakly damped vibrations of a vertical beam with a tip-mass. Journal of Sound and Vibration, 2008, 310, 740-754.  | 3.9 | 7         |
| 42 | On oscillations of a beam with a small rigidity and a time-varying mass. Nonlinear Dynamics, 2014, 78, 449-459.  | 5.2 | 7         |
| 43 | On solving wave equations on fixed bounded intervals involving Robin boundary conditions with time-dependent coefficients. Journal of Sound and Vibration, 2018, 424, 263-271.                   | 3.9 | 7         |
| 44 | On oscillations in a system with a piecewise smooth coefficient. Journal of Sound and Vibration, 2005, 283, 1229-1234.   | 3.9 | 6         |
| 45 | On the Vibrations of a Simply Supported Square Plate on a Weakly Nonlinear Elastic Foundation.<br>Nonlinear Dynamics, 2005, 40, 35-60.   | 5.2 | 6         |
| 46 | On Approximations of First Integrals for a System of Weakly Nonlinear, Coupled Harmonic<br>Oscillators. Nonlinear Dynamics, 2002, 30, 243-266.   | 5.2 | 5         |
| 47 | On Approximations of First Integrals for Strongly Nonlinear Oscillators. Nonlinear Dynamics, 2003, 32, 109-141.  | 5.2 | 5         |
| 48 | On Aspects of Asymptotics for Plate Equations. Nonlinear Dynamics, 2005, 41, 403-413.  | 5.2 | 5         |
| 49 | A PIECEWISE LINEAR DYNAMICAL SYSTEM WITH TWO DROPPING SECTIONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 1367-1372.                         | 1.7 | 5         |
| 50 | On the Transverse Vibrations of Strings and Beams on Semi-Infinite Domains. Procedia IUTAM, 2016, 19, 266-273.   | 1.2 | 5         |
| 51 | On Parametric Stability of a Nonconstant Axially Moving String Near Resonances. Journal of Vibration and Acoustics, Transactions of the ASME, 2017, 139, .                                       | 1.6 | 5         |
| 52 | On aspects of boundary damping for a rectangular plate. Journal of Sound and Vibration, 2006, 292, 844-853.  | 3.9 | 4         |
| 53 | On constructing a Green's function for a semi-infinite beam with boundary damping. Meccanica, 2017,<br>52, 2251-2263.  | 2.0 | 4         |
| 54 | On resonances in transversally vibrating strings induced by an external force and a time-dependent coefficient in a Robin boundary condition. Journal of Sound and Vibration, 2021, 512, 116356. | 3.9 | 4         |

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|----|--|-----|-----------|
| 55 | On integrating vectors and multiple scales for singularly perturbed ordinary differential equations.<br>Nonlinear Analysis: Theory, Methods & Applications, 2001, 46, 19-43. | 1.1 | 3         |
| 56 | On Approximations of First Integrals for a Strongly Nonlinear Forced Oscillator. Nonlinear Dynamics, 2003, 33, 225-252.  | 5.2 | 3         |
| 57 | Global bifurcations of limit and separatrix cycles in a generalized Liénard system. Nonlinear Analysis:<br>Theory, Methods & Applications, 2004, 59, 189-198.                | 1.1 | 3         |
| 58 | Nonlinear vibrations of a beam with time-varying rigidity and mass. Nonlinear Dynamics, 2013, 71, 291-312.   | 5.2 | 3         |
| 59 | On a simple oscillator problem describing ice-induced vibrations of an offshore structure. Nonlinear<br>Dynamics, 2019, 98, 151-166.   | 5.2 | 3         |
| 60 | On boundary damping to reduce the rain–wind oscillations of an inclined cable with small bending stiffness. Nonlinear Dynamics, 2019, 95, 783-808.                           | 5.2 | 3         |
| 61 | On constructing solutions for the functional equation Z. Applied Mathematics and Computation, 2014, 237, 373-385.  | 2.2 | 2         |
| 62 | On the Lateral Vibrations of a Vertically Moving String With a Harmonically Varying Length. , 2015, , .  |     | 2         |
| 63 | On the Vibrations of an Axially Moving String With a Time-Dependent Velocity. , 2015, , .  |     | 2         |
| 64 | Dynamics and buckling loads for a vibrating damped Euler–Bernoulli beam connected to an inhomogeneous foundation. Archive of Applied Mechanics, 2021, 91, 1291-1308.         | 2.2 | 2         |
| 65 | On resonances in a weakly nonlinear microbeam due to an electric actuation. Nonlinear Dynamics, 2021, 104, 3157-3185.  | 5.2 | 2         |
| 66 | A mathematical analysis of an extended model describing sea ice-induced frequency lock-in for vertically sided offshore structures. Nonlinear Dynamics, 2022, 107, 683-699.  | 5.2 | 2         |
| 67 | Analysis of longitudinal oscillations in a vertically moving cable subject to nonclassical boundary conditions. Applied Mathematical Modelling, 2022, 111, 44-62.            | 4.2 | 2         |
| 68 | Coupled torsional and vertical oscillations of a beam subjected to boundary damping. Journal of Sound and Vibration, 2006, 298, 1113-1128.                                   | 3.9 | 1         |
| 69 | On the uniqueness of solutions for the Dirichlet boundary value problem of linear elastostatics in the circular domain. Acta Mechanica, 2008, 197, 43-62.                    | 2.1 | 1         |
| 70 | Global analysis of a piecewise linear Lienard-type dynamical system. International Journal of Dynamical<br>Systems and Differential Equations, 2009, 2, 115.                 | 0.0 | 1         |
| 71 | On an interaction function for copulas. Journal of Multivariate Analysis, 2015, 138, 127-142.  | 1.0 | 1         |
| 72 | Spreading speeds and monostable waves in a reaction-diffusion model with nonlinear competition.<br>Journal of Mathematical Analysis and Applications, 2022, 511, 126077.     | 1.0 | 1         |

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|----|--|-----|-----------|
| 73 | On constructing accurate approximations of first integrals for difference equations.<br>Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 835-850. | 3.3 | 0         |