

# Jean-Philippe Noël

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3026084/publications.pdf>

Version: 2024-02-01

34  
papers

936  
citations

623734

14  
h-index

454955

30  
g-index

36  
all docs

36  
docs citations

36  
times ranked

551  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear system identification in structural dynamics: 10 more years of progress. <i>Mechanical Systems and Signal Processing</i> , 2017, 83, 2-35.	8.0	349
2	Frequency-domain subspace identification for nonlinear mechanical systems. <i>Mechanical Systems and Signal Processing</i> , 2013, 40, 701-717.	8.0	85
3	Complex dynamics of a nonlinear aerospace structure: Experimental identification and modal interactions. <i>Journal of Sound and Vibration</i> , 2014, 333, 2588-2607.	3.9	77
4	Subspace-based identification of a nonlinear spacecraft in the time and frequency domains. <i>Mechanical Systems and Signal Processing</i> , 2014, 43, 217-236.	8.0	64
5	A nonlinear state-space approach to hysteresis identification. <i>Mechanical Systems and Signal Processing</i> , 2017, 84, 171-184.	8.0	54
6	Complex dynamics of a nonlinear aerospace structure: numerical continuation and normal modes. <i>Nonlinear Dynamics</i> , 2015, 79, 1293-1309.	5.2	45
7	Identification of nonlinear normal modes of engineering structures under broadband forcing. <i>Mechanical Systems and Signal Processing</i> , 2016, 74, 95-110.	8.0	37
8	Bayesian model updating of nonlinear systems using nonlinear normal modes. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2258.	4.0	28
9	Parameter reduction in nonlinear state-space identification of hysteresis. <i>Mechanical Systems and Signal Processing</i> , 2018, 104, 884-895.	8.0	25
10	Grey-box state-space identification of nonlinear mechanical vibrations. <i>International Journal of Control</i> , 2018, 91, 1118-1139.	1.9	20
11	Measurement and identification of the nonlinear dynamics of a jointed structure using full-field data, Part I: Measurement of nonlinear dynamics. <i>Mechanical Systems and Signal Processing</i> , 2022, 166, 108401.	8.0	20
12	Grey-box identification of a non-linear solar array structure using cubic splines. <i>International Journal of Non-Linear Mechanics</i> , 2014, 67, 106-119.	2.6	17
13	Measurement and identification of the nonlinear dynamics of a jointed structure using full-field data; Part II - Nonlinear system identification. <i>Mechanical Systems and Signal Processing</i> , 2022, 166, 108402.	8.0	17
14	Experimental study of isolas in nonlinear systems featuring modal interactions. <i>PLoS ONE</i> , 2018, 13, e0194452.	2.5	16
15	Experimental identification of distributed nonlinearities in the modal domain. <i>Journal of Sound and Vibration</i> , 2019, 458, 426-444.	3.9	13
16	Experimental assessment of polynomial nonlinear state-space and nonlinear-mode models for near-resonant vibrations. <i>Mechanical Systems and Signal Processing</i> , 2020, 143, 106796.	8.0	12
17	Output Error Methods for Robot Identification. <i>Journal of Dynamic Systems, Measurement and Control</i> , <i>Transactions of the ASME</i> , 2020, 142, .	1.6	12
18	Polynomial State-Space Model Decoupling for the Identification of Hysteretic Systems. <i>IFAC-PapersOnLine</i> , 2017, 50, 458-463.	0.9	9

#	ARTICLE	IF	CITATIONS
19	Nonlinear dynamic model upgrading and updating using sine-sweep vibration data. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20190166.	2.1	6
20	Subspace and Nonlinear-Normal-Modes-Based Identification of a Beam with Softening-Hardening Behaviour. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 55-68.	0.5	6
21	Model reduction and frequency residuals for a robust estimation of nonlinearities in subspace identification. Mechanical Systems and Signal Processing, 2017, 93, 312-331.	8.0	5
22	Grey-box nonlinear state-space modelling for mechanical vibrations identification. IFAC-PapersOnLine, 2015, 48, 817-822.	0.9	3
23	Subspace-Based Identification of a Distributed Nonlinearity in Time and Frequency Domains. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 283-285.	0.5	3
24	Numerical Assessment of Polynomial Nonlinear State-Space and Nonlinear-Mode Models for Near-Resonant Vibrations. Vibration, 2020, 3, 320-342.	1.9	2
25	Experimental Modal Analysis of Nonlinear Structures Using Broadband Data. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 219-240.	0.5	1
26	Nonlinear Phase Separation Testing of an Experimental Wing-Engine Structure. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 115-117.	0.5	1
27	System Identification of Jointed Structures: Nonlinear Modal Testing Vs. State-Space Model Identification. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 159-161.	0.5	1
28	Obtaining Nonlinear Frequency Responses from Broadband Testing. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 219-227.	0.5	1
29	Bifurcation Analysis of a Spacecraft Structure Using the Harmonic Balance Method. , 2015, ,		0
30	Dynamics of Geometrically-Nonlinear Beam Structures, Part 2: Experimental Analysis. Conference Proceedings of the Society for Experimental Mechanics, 2020, , 217-220.	0.5	0
31	A Stochastic Framework for Subspace Identification of a Strongly Nonlinear Aerospace Structure. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 169-182.	0.5	0
32	Identification of Complex Nonlinearities Using Cubic Splines with Automatic Discretization. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 51-54.	0.5	0
33	Model Updating of a Wing-Engine Structure with Nonlinear Connections. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 373-374.	0.5	0
34	Nonlinearities of an Aircraft Piccolo Tube: Identification and Modeling. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 57-59.	0.5	0