

Bernd Noack

List of Publications by Year in descending order

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169
papers

8,538
citations

76196

40
h-index

49773

87
g-index

178
all docs

178
docs citations

178
times ranked

3300
citing authors

#	ARTICLE	IF	CITATIONS
1	Cluster-based hierarchical network model of the fluidic pinball – cartographing transient and post-transient, multi-frequency, multi-attractor behaviour. <i>Journal of Fluid Mechanics</i> , 2022, 934, .	1.4	14
2	Explorative gradient method for active drag reduction of the fluidic pinball and slanted Ahmed body. <i>Journal of Fluid Mechanics</i> , 2022, 932, .	1.4	19
3	Microparticle Transport and Sedimentation in a Rhythmically Expanding Alveolar Chip. <i>Micromachines</i> , 2022, 13, 485.	1.4	4
4	Efficient thrust enhancement by modified pitching motion. <i>Journal of Fluid Mechanics</i> , 2022, 933, .	1.4	6
5	Machine-learning flow control with few sensor feedback and measurement noise. <i>Physics of Fluids</i> , 2022, 34, .	1.6	19
6	Trajectory-optimized cluster-based network model for the sphere wake. <i>Physics of Fluids</i> , 2022, 34, .	1.6	10
7	Cluster-based network model. <i>Journal of Fluid Mechanics</i> , 2021, 906, .	1.4	32
8	Closed-Loop Drag Reduction Over a D-Shaped Body Via Coanda Actuation. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 243-248.	0.3	0
9	Sparse Spatial Sampling: A mesh sampling algorithm for efficient processing of big simulation data. , 2021, , .		0
10	Generalized Cluster-Based Network Model for an Actuated Turbulent Boundary Layer. , 2021, , .		0
11	Artificial Intelligence Control of a Turbulent Jet. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 365-374.	0.3	0
12	Stabilization of the fluidic pinball with gradient-enriched machine learning control. <i>Journal of Fluid Mechanics</i> , 2021, 917, .	1.4	24
13	Transfer of internal energy fluctuation in compressible isotropic turbulence with vibrational non-equilibrium. <i>Journal of Fluid Mechanics</i> , 2021, 919, .	1.4	9
14	Galerkin force model for transient and post-transient dynamics of the fluidic pinball. <i>Journal of Fluid Mechanics</i> , 2021, 918, .	1.4	17
15	Cluster-based network modeling – From snapshots to complex dynamical systems. <i>Science Advances</i> , 2021, 7, .	4.7	30
16	Coinciding local bifurcations in the Navier-Stokes equations. <i>Europhysics Letters</i> , 2021, 135, 24002.	0.7	3
17	Drag reduction of a D-shaped bluff-body using linear parameter varying control. <i>Physics of Fluids</i> , 2021, 33, .	1.6	16
18	On closures for reduced order models – A spectrum of first-principle to machine-learned avenues. <i>Physics of Fluids</i> , 2021, 33, .	1.6	78

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19	Active Flow Control Experiments on a High-Lift Configuration. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2021, , 77-90.	0.2	1
20	Artificial intelligence in fluid mechanics. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 1715-1717.	1.5	17
21	Bayesian optimization for active flow control. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 1786-1798.	1.5	13
22	Genetic-algorithm-based artificial intelligence control of a turbulent boundary layer. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 1739-1747.	1.5	9
23	Machine Learning for Fluid Mechanics. Annual Review of Fluid Mechanics, 2020, 52, 477-508.	10.8	1,324
24	Machine learning strategies applied to the control of a fluidic pinball. Physics of Fluids, 2020, 32, .	1.6	41
25	Low-order model for successive bifurcations of the fluidic pinball. Journal of Fluid Mechanics, 2020, 884, .	1.4	54
26	Machine learning open-loop control of a mixing layer. Physics of Fluids, 2020, 32, .	1.6	13
27	On the cavity-actuated supersonic mixing layer downstream a thick splitter plate. Physics of Fluids, 2020, 32, .	1.6	13
28	Fast triple-parameter extremum seeking exemplified for jet control. Experiments in Fluids, 2020, 61, 1.	1.1	5
29	Artificial intelligence control of a turbulent jet. Journal of Fluid Mechanics, 2020, 897, .	1.4	46
30	Drag Reduction and Energy Saving by Spanwise Traveling Transversal Surface Waves for Flat Plate Flow. Flow, Turbulence and Combustion, 2020, 105, 125-157.	1.4	26
31	Upstream actuation for bluff-body wake control driven by a genetically inspired optimization. Journal of Fluid Mechanics, 2020, 893, .	1.4	26
32	Optimization and sensitivity analysis of active drag reduction of a square-back Ahmed body using machine learning control. Physics of Fluids, 2020, 32, .	1.6	20
33	Vibrational relaxation in compressible isotropic turbulence with thermal nonequilibrium. Physical Review Fluids, 2020, 5, .	1.0	8
34	Actuation response model from sparse data for wall turbulence drag reduction. Physical Review Fluids, 2020, 5, .	1.0	17
35	Cartographing dynamic stall with machine learning. Wind Energy Science, 2020, 5, 819-838.	1.2	4
36	Closed-Loop Turbulence Control-From Human to Machine Learning (and Retour). Lecture Notes in Mechanical Engineering, 2019, , 23-32.	0.3	12

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37	Unstable Periodically Forced Navier–Stokes Solutions—Towards Nonlinear First-Principle Reduced-Order Modeling of Actuator Performance. Computational Methods in Applied Sciences (Springer), 2019, , 117-145.	0.1	0
38	Metric for attractor overlap. Journal of Fluid Mechanics, 2019, 874, 720-755.	1.4	14
39	Cluster-based feedback control of turbulent post-stall separated flows. Journal of Fluid Mechanics, 2019, 875, 345-375.	1.4	45
40	Cluster-based network model for drag reduction mechanisms of an actuated turbulent boundary layer. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900219.	0.2	2
41	Open- and closed loop control on a D-shaped bluff body equipped with Coanda actuation. , 2019, , .		2
42	Artificial intelligence control applied to drag reduction of the fluidic pinball. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900268.	0.2	5
43	Reduced-Order Modeling of the Fluidic Pinball. Springer Proceedings in Complexity, 2019, , 205-213.	0.2	2
44	Drag reduction mechanisms of a car model at moderate yaw by bi-frequency forcing. Physical Review Fluids, 2019, 4, .	1.0	31
45	Sparse reduced-order modelling: sensor-based dynamics to full-state estimation. Journal of Fluid Mechanics, 2018, 844, 459-490.	1.4	155
46	The need for prediction in feedback control of a mixing layer. Fluid Dynamics Research, 2018, 50, 065514.	0.6	8
47	Route to Chaos in the Fluidic Pinball. , 2018, , .		0
48	Open- and closed-loop control investigations of unsteady Coanda actuation on a high-lift configuration. , 2018, , .		6
49	Jet mixing optimization using machine learning control. Experiments in Fluids, 2018, 59, 1.	1.1	34
50	Cluster-based control of a separating flow over a smoothly contoured ramp. Theoretical and Computational Fluid Dynamics, 2017, 31, 579-593.	0.9	12
51	Forcing symmetry exchanges and flow reversals in turbulent wakes. Journal of Fluid Mechanics, 2017, 829, .	1.4	52
52	Machine Learning Control for Experimental Turbulent Flow Targeting the Reduction of a Recirculation Bubble. , 2017, , .		1
53	Drag reduction of a car model by linear genetic programming control. Experiments in Fluids, 2017, 58, 1.	1.1	55
54	Machine Learning Control – Taming Nonlinear Dynamics and Turbulence. Fluid Mechanics and Its Applications, 2017, , .	0.1	140

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55	Machine Learning Control (MLC). Fluid Mechanics and Its Applications, 2017, , 11-48.	0.1	6
56	Methods of Linear Control Theory. Fluid Mechanics and Its Applications, 2017, , 49-68.	0.1	1
57	Benchmarking MLC Against Linear Control. Fluid Mechanics and Its Applications, 2017, , 69-91.	0.1	0
58	Taming Nonlinear Dynamics with MLC. Fluid Mechanics and Its Applications, 2017, , 93-120.	0.1	2
59	Data-Driven Methods in Fluid Dynamics: Sparse Classification from Experimental Data. , 2017, , 323-342.		32
60	On the need of mode interpolation for data-driven Galerkin models of a transient flow around a sphere. Theoretical and Computational Fluid Dynamics, 2017, 31, 111-126.	0.9	6
61	Effects of Unsteady Coanda Blowing on the Wake and Drag of a Simplified Blunt Vehicle. , 2017, , 365-373.		0
62	From snapshots to modal expansions “ bridging low residuals and pure frequencies. Journal of Fluid Mechanics, 2016, 802, 1-4.	1.4	53
63	Reduced-order modelling of the flow around a high-lift configuration with unsteady Coanda-Blowing. Journal of Fluid Mechanics, 2016, 800, 72-110.	1.4	25
64	Frequency selection by feedback control in a turbulent shear flow. Journal of Fluid Mechanics, 2016, 797, 247-283.	1.4	30
65	Bluff body drag manipulation using pulsed jets and Coanda effect. Journal of Fluid Mechanics, 2016, 805, 422-459.	1.4	124
66	Recursive dynamic mode decomposition of transient and post-transient wake flows. Journal of Fluid Mechanics, 2016, 809, 843-872.	1.4	145
67	Modal energy flow analysis of a highly modulated wake behind a wall-mounted pyramid. Journal of Fluid Mechanics, 2016, 798, 717-750.	1.4	19
68	Resonances in the forced turbulent wake past a 3D blunt body. Physics of Fluids, 2016, 28, .	1.6	38
69	Feedback control of bimodal wake dynamics. Experiments in Fluids, 2016, 57, 1.	1.1	54
70	Model reduction and inverse problems and data assimilation with geophysical applications. A special issue in honor of I. Michael Navon's 75th birthday. International Journal for Numerical Methods in Fluids, 2016, 82, 625-630.	0.9	3
71	Prediction of dynamical systems by symbolic regression. Physical Review E, 2016, 94, 012214.	0.8	70
72	Numerical Investigation of Active Flow Control Around a Generic Truck A-Pillar. Flow, Turbulence and Combustion, 2016, 97, 1235-1254.	1.4	28

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73	Bayesian cyclic networks, mutual information and reduced-order Bayesian inference. AIP Conference Proceedings, 2016, , .	0.3	1
74	Closed-loop separation control over a sharp edge ramp using genetic programming. Experiments in Fluids, 2016, 57, 1.	1.1	41
75	On long-term boundedness of Galerkin models. Journal of Fluid Mechanics, 2015, 765, 325-352.	1.4	48
76	Optimal nonlinear eddy viscosity in Galerkin models of turbulent flows. Journal of Fluid Mechanics, 2015, 766, 337-367.	1.4	45
77	Closed-loop separation control using machine learning. Journal of Fluid Mechanics, 2015, 770, 442-457.	1.4	169
78	MaxEnt analysis of a water distribution network in Canberra, ACT, Australia. , 2015, , .		4
79	Feedback stabilization of an oscillating vertical cylinder by POD Reduced-Order Model. Journal of Physics: Conference Series, 2015, 574, 012137.	0.3	3
80	Closed-Loop Turbulence Control: Progress and Challenges. Applied Mechanics Reviews, 2015, 67, .	4.5	369
81	Sensor-based estimation of the velocity in the wake of a low-aspect-ratio pyramid. Experiments in Fluids, 2015, 56, 1.	1.1	38
82	Active Flow Control for High Speed Jets with Large Window PIV. Flow, Turbulence and Combustion, 2015, 94, 97-123.	1.4	11
83	Mixing Layer Manipulation Experiment. Flow, Turbulence and Combustion, 2015, 94, 155-173.	1.4	49
84	Cluster-based reduced-order modelling of the flow in the wake of a high speed train. Journal of Wind Engineering and Industrial Aerodynamics, 2015, 145, 327-338.	1.7	40
85	Analysis of High Speed Jet Flow Physics with Time-Resolved PIV. , 2014, , .		6
86	Cluster-based reduced-order modelling of shear flows. AIP Conference Proceedings, 2014, , .	0.3	5
87	Control of a three-dimensional blunt body wake using low and high frequency pulsed jets. International Journal of Flow Control, 2014, 6, 61-74.	0.4	22
88	Cluster-based analysis of cycle-to-cycle variations: application to internal combustion engines. Experiments in Fluids, 2014, 55, 1.	1.1	25
89	An Optimal Model Identification for Oscillatory Dynamics with a Stable Limit Cycle. Journal of Nonlinear Science, 2014, 24, 245-275.	1.0	6
90	Model reduction using Dynamic Mode Decomposition. Comptes Rendus - Mecanique, 2014, 342, 410-416.	2.1	84

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91	Closed-loop control of experimental shear flows using machine learning. , 2014, , .		30
92	Granger causality in wall-bounded turbulence. Journal of Physics: Conference Series, 2014, 506, 012006.	0.3	8
93	On the need for a nonlinear subscale turbulence term in POD models as exemplified for a high-Reynolds-number flow over an Ahmed body. Journal of Fluid Mechanics, 2014, 747, 518-544.	1.4	153
94	Cluster-based reduced-order modelling of a mixing layer. Journal of Fluid Mechanics, 2014, 754, 365-414.	1.4	204
95	Control Volume Analysis, Entropy Balance and the Entropy Production in Flow Systems. Understanding Complex Systems, 2014, , 129-162.	0.3	3
96	Identification strategies for model-based control. Experiments in Fluids, 2013, 54, 1.	1.1	74
97	A hierarchy of maximum entropy closures for Galerkin systems of incompressible flows. Computers and Mathematics With Applications, 2013, 65, 1558-1574.	1.4	13
98	Low-dimensional modelling of high-Reynolds-number shear flows incorporating constraints from the Navier–Stokes equation. Journal of Fluid Mechanics, 2013, 729, 285-308.	1.4	152
99	Generalized phase average with applications to sensor-based flow estimation of the wall-mounted square cylinder wake. Journal of Fluid Mechanics, 2013, 736, 316-350.	1.4	68
100	Reduced Order Models for a High Speed Jet with Time-Resolved PIV. , 2013, , .		7
101	Maximum-entropy closure for a Galerkin model of an incompressible periodic wake. Journal of Fluid Mechanics, 2012, 700, 187-213.	1.4	21
102	On least-order flow representations for aerodynamics and aeroacoustics. Journal of Fluid Mechanics, 2012, 697, 367-398.	1.4	27
103	Adaptive Control in an Axial Turbofan: Model-Free Implementation with Short Response Time. AIAA Journal, 2011, 49, 1429-1436.	1.5	8
104	Bernoulli, Bode, and Budgie [Ask the Experts]. IEEE Control Systems, 2011, 31, 18-23.	1.0	4
105	Continuous Mode Interpolation between Multiple Operating and Boundary Conditions for Reduced Order Modelling of the Flow. AIP Conference Proceedings, 2011, , .	0.3	5
106	Reduced-order models for closed-loop wake control. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 1513-1524.	1.6	31
107	Control of Tollmien–Schlichting instabilities by finite distributed wall actuation. Theoretical and Computational Fluid Dynamics, 2011, 25, 167-178.	0.9	17
108	Reduced-Order Modelling for Flow Control. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2011, , .	0.3	163

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109	Three-dimensional coherent structures in a swirling jet undergoing vortex breakdown: stability analysis and empirical mode construction. <i>Journal of Fluid Mechanics</i> , 2011, 679, 383-414.	1.4	340
110	On the Extraction of Long-living Features in Unsteady Fluid Flows. <i>Mathematics and Visualization</i> , 2011, , 115-126.	0.4	15
111	Global Stability Analysis for Linear Dynamics. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2011, , 77-110.	0.3	1
112	Galerkin Method for Nonlinear Dynamics. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2011, , 111-149.	0.3	19
113	Galerkin Models Enhancements for Flow Control. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2011, , 151-252.	0.3	8
114	System reduction strategy for Galerkin models of fluid flows. <i>International Journal for Numerical Methods in Fluids</i> , 2010, 63, 231-248.	0.9	16
115	Transient dynamics of the flow around a NACA 0015 airfoil using fluidic vortex generators. <i>International Journal of Heat and Fluid Flow</i> , 2010, 31, 450-459.	1.1	36
116	Mean field representation of the natural and actuated cylinder wake. <i>Physics of Fluids</i> , 2010, 22, 034102.	1.6	49
117	Combination of Image Postprocessing Tools to Identify Coherent Structures of Premixed Flames. <i>AIAA Journal</i> , 2010, 48, 1708-1720.	1.5	7
118	Robust nonlinear control versus linear model predictive control of a bluff body wake. , 2010, , .		6
119	Robust Control in Turbomachinery Configurations. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2010, , 187-201.	0.2	6
120	Modeling the Fuel/Air Mixing to Control the Pressure Pulsations and NO _x Emissions in a Lean Premixed Combustor. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2010, , 307-321.	0.2	1
121	Turbulence Control Based on Reduced-Order Models and Nonlinear Control Design. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2010, , 341-356.	0.2	8
122	Extraction of Coherent Structures from Natural and Actuated Flows. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2010, , 373-387.	0.2	2
123	Optimal Boundary Control Problems Related to High-Lift Configurations. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2010, , 405-419.	0.2	2
124	Spatiotemporal Characterization of a Conical Swirler Flow Field Under Strong Forcing. <i>Journal of Engineering for Gas Turbines and Power</i> , 2009, 131, .	0.5	66
125	Extensions of Extremum-Seeking Control to Improve the Aerodynamic Performance of Axial Turbomachines. , 2009, , .		26
126	A generalized mean-field model of the natural and high-frequency actuated flow around a high-lift configuration. <i>Journal of Fluid Mechanics</i> , 2009, 623, 283-316.	1.4	79

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127	Reduced-Order Modelling of Turbulent Jets for Noise Control. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2009, , 3-27.	0.2	14
128	Temporal-Harmonic Specific POD Mode Extraction. , 2008, , .		11
129	Fast Approximated POD for a Flat Plate Benchmark with a Time Varying Angle of Attack. , 2008, , .		3
130	A Finite-Time Thermodynamics of Unsteady Fluid Flows. Journal of Non-Equilibrium Thermodynamics, 2008, 33, .	2.4	53
131	Erratum to the article "A Finite-Time Thermodynamics of Unsteady Fluid Flows" Journal of Non-Equilibrium Thermodynamics, 2008, 33, .	2.4	4
132	Feedback shear layer control for bluff body drag reduction. Journal of Fluid Mechanics, 2008, 608, 161-196.	1.4	256
133	REDUCED ORDER GALERKIN MODELS OF FLOW AROUND NACA0012 AIRFOIL. Mathematical Modelling and Analysis, 2008, 13, 113-122.	0.7	12
134	Spatio-Temporal Characterization of a Conical Swirler Flow Field Under Strong Forcing. , 2008, , .		1
135	Shift Modes and Transient Dynamics in Low Order, Design Oriented Galerkin Models. , 2007, , .		1
136	Low Order Galerkin Models for the Actuated Flow Around 2-D Airfoils. , 2007, , .		8
137	Identifying Noisy and Quiet Modes in a Jet. , 2007, , .		20
138	Reduced-order representation of turbulent jet flow and its noise source. ESAIM: Proceedings and Surveys, 2007, 16, 33-50.	0.4	5
139	Continuous Mode Interpolation for Control-Oriented Models of Fluid Flow. , 2007, , 260-278.		16
140	Feedback Control Applied to the Bluff Body Wake. , 2007, , 369-390.		23
141	Spatiotemporal Waveform Observers and Feedback in Shear Layer Control. , 2006, , .		6
142	Tuned POD Galerkin models for transient feedback regulation of the cylinder wake. , 2006, , .		16
143	A Reduced Order Galerkin Model for the Reacting Flame Holder. , 2006, , .		5
144	Generalized Mean-Field Model for Flow Control Using a Continuous Mode Interpolation. , 2006, , .		15

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145	Control Oriented Models&Feedback Design in Fluid Flow Systems: A Review. , 2006, , .		3
146	The need for a pressure-term representation in empirical Galerkin models of incompressible shear flows. Journal of Fluid Mechanics, 2005, 523, 339-365.	1.4	275
147	Optimal mixing in recirculation zones. Physics of Fluids, 2004, 16, 867-888.	1.6	41
148	Low-Dimensional Models for Feedback Flow Control. Part I: Empirical Galerkin Models. , 2004, , .		54
149	Low-Dimensional Models for Feedback Flow Control. Part II: Control Design and Dynamic Estimation. , 2004, , .		37
150	A hierarchy of low-dimensional models for the transient and post-transient cylinder wake. Journal of Fluid Mechanics, 2003, 497, 335-363.	1.4	765
151	Model-based Coherent-structure Control of Turbulent Shear Flows Using Low-dimensional Vortex Models. , 2003, , .		24
152	Model-based Control of Vortex Shedding Using Low-dimensional Galerkin Models. , 2003, , .		74
153	On drag, Strouhal number and vortex-street structure. Fluid Dynamics Research, 2002, 30, 379-399.	0.6	65
154	Reduced-basis model for active separation control in a planar diffuser flow. , 2000, , .		16
155	On the flow around a circular cylinder. Part I: Laminar and transitional regime. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 1999, 79, 223-226.	0.9	6
156	On the flow around a circular cylinder. Part II: Turbulent regime. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 1999, 79, 227-230.	0.9	9
157	On the transition of the cylinder wake. Physics of Fluids, 1995, 7, 779-794.	1.6	354
158	Discrete shedding modes of the cylinder wake in a jet with a homogeneous core. Physics of Fluids, 1994, 6, 2711-2715.	1.6	8
159	A lowâ€dimensional Galerkin method for the threeâ€dimensional flow around a circular cylinder. Physics of Fluids, 1994, 6, 124-143.	1.6	114
160	A global stability analysis of the steady and periodic cylinder wake. Journal of Fluid Mechanics, 1994, 270, 297-330.	1.4	182
161	Discrete shedding modes in the von K�rm�n vortex street. Physics of Fluids A, Fluid Dynamics, 1993, 5, 1846-1848.	1.6	29
162	Threeâ€dimensional stability analysis of the periodic flow around a circular cylinder. Physics of Fluids A, Fluid Dynamics, 1993, 5, 1279-1281.	1.6	23

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163	Theoretical Investigation of the Cylinder Wake with a Low-Dimensional Galerkin Method. , 1993, , 143-146.		2
164	On chaos in wakes. Physica D: Nonlinear Phenomena, 1992, 56, 151-164.	1.3	22
165	Construction and analysis of differential equations from experimental time series of oscillatory systems. Physica D: Nonlinear Phenomena, 1992, 56, 389-405.	1.3	16
166	On cell formation in vortex streets. Journal of Fluid Mechanics, 1991, 227, 293-308.	1.4	76
167	Wake stabilization using POD Galerkin models with interpolated modes. , 0, , .		21
168	Observers and Feedback Control for Shear Layer Vortices. , 0, , .		4
169	Nonlinear Flow Control Based on a Low Dimensional Model of Fluid Flow. , 0, , 369-386.		23