# CITATION REPORT List of articles citing

Spectral Properties of Dynamical Systems, Model Reduction and Decompositions

DOI: 10.1007/s11071-005-2824-x Nonlinear Dynamics, 2005, 41, 309-325.

Source: https://exaly.com/paper-pdf/38521303/citation-report.pdf

Version: 2024-04-17

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper IF	Citations
656	Spectral analysis of nonlinear flows. <b>2009</b> , 641, 115-127	1064
655	Description of complex flow behaviour using global dynamic modes. <b>2010</b> , 656, 1-4	1
654	Dynamic mode decomposition of numerical and experimental data. <b>2010</b> , 656, 5-28	2123
653	Nonlinear Koopman modes of coupled swing dynamics and coherency identification. 2010,	9
652	Scalable Bayesian Reduced-Order Models for Simulating High-Dimensional Multiscale Dynamical Systems. <b>2011</b> , 9, 449-485	8
651	Nonlinear Koopman Modes and Coherency Identification of Coupled Swing Dynamics. <b>2011</b> , 26, 1894-1904	104
650	Global linear instability at the dawn of its 4th decade: a list of challenges (A practical guide on how to contain the euphoria and avoid the oversell). <b>2011</b> ,	2
649	Dynamic mode decomposition of turbulent cavity flows for self-sustained oscillations. <b>2011</b> , 32, 1098-1110	128
648	Coherent Swing Instability of Power Grids. <b>2011</b> , 21, 403-439	56
647	Applications of the dynamic mode decomposition. <b>2011</b> , 25, 249-259	278
646	Reduced-Order Modelling for Flow Control. <b>2011</b> ,	115
645	Dynamical mode decomposition of Gurney flap wake flow. <b>2011</b> , 1, 012002	51
644	Investigation of wall-bounded turbulent flow using Dynamic mode decomposition. <b>2011</b> , 318, 042040	7
643	Image processing analysis of vortex dynamics of lobed jets from three-dimensional diffusers. <b>2011</b> , 43, 065502	12
642	From streamline jumping to strange eigenmodes: Bridging the Lagrangian and Eulerian pictures of the kinematics of mixing in granular flows. <b>2011</b> , 23, 103302	23
641	Control and Optimization Methods for Electric Smart Grids. 2012,	15
640	Aero-acoustic simulations of an orifice in a low-Mach-number ducted flow. <b>2012</b> ,	

## (2013-2012)

639	An efficient approach for eigenmode analysis of transient distributive mixing by the mapping method. <b>2012</b> , 24, 053602	10
638	Geometric multiscale reduction for autonomous and controlled nonlinear systems. 2012,	1
637	Lagrangian and spectral analysis of the forced flow past a circular cylinder using pulsed tangential jets. <b>2012</b> , 696, 285-300	24
636	Nonlinear Koopman Modes and a Precursor to Power System Swing Instabilities. <b>2012</b> , 27, 1182-1191	52
635	Variants of Dynamic Mode Decomposition: Boundary Condition, Koopman, and Fourier Analyses. <b>2012</b> , 22, 887-915	378
634	Applied Koopmanism. <b>2012</b> , 22, 047510	299
633	LES of Acoustic-Flow Interaction at an Orifice Plate. <b>2012</b> ,	1
632	The Role of Discontinuities in Mixing. <b>2012</b> , 51-90	20
631	Computational Hydrodynamic Stability and Flow Control Based on Spectral Analysis of Linear Operators. <b>2012</b> , 19, 341-379	8
630	Four Decades of Studying Global Linear Instability: Progress and Challenges. <b>2012</b> , 50, 2731-2743	49
629	Coherent Swing Instability of Interconnected Power Grids and a Mechanism of Cascading Failure. <b>2012</b> , 185-202	4
628	Analysis of time-resolved PIV measurements of a confined turbulent jet using POD and Koopman modes. <b>2012</b> , 53, 1203-1220	80
627	Beyond Passive. <b>2012</b> , 109-188	22
626	On the use of Fourier averages to compute the global isochrons of (quasi)periodic dynamics. <b>2012</b> , 22, 033112	65
625	Flow structures around a high-speed train extracted using Proper Orthogonal Decomposition and Dynamic Mode Decomposition. <b>2012</b> , 57, 87-97	151
624	Dynamic mode decomposition of hairpin vortices generated by a hemisphere protuberance. <b>2012</b> , 55, 118-124	28
623	Mode Decomposition on Surface-Mounted Cube. <b>2012</b> , 88, 279-310	48
622	POD-spectral decomposition for fluid flow analysis and model reduction. <b>2013</b> , 27, 787-815	30

621	Koopman-mode decomposition of the cylinder wake. <b>2013</b> , 726, 596-623	163
620	Footprints of Lagrangian flow structures in Eulerian concentration distributions in periodic mixing flows. <b>2013</b> , 250, 20-33	20
619	Flow dynamics and mass transfer in impinging circular jet at low Reynolds number. Comparison of convergent and orifice nozzles. <b>2013</b> , 67, 25-45	19
618	Isostables, isochrons, and Koopman spectrum for the action Ingle representation of stable fixed point dynamics. <b>2013</b> , 261, 19-30	105
617	Analysis of Fluid Flows via Spectral Properties of the Koopman Operator. 2013, 45, 357-378	426
616	A spectral operator-theoretic framework for global stability. <b>2013</b> ,	24
615	A Computational Method to Extract Macroscopic Variables and Their Dynamics in Multiscale Systems. <b>2014</b> , 13, 1816-1846	42
614	Analysis of Fluid Motion in Dynamic Stall and Forced Cylinder Flow Using Koopman Operator Methods. <b>2014</b> ,	
613	Transverse Combustion Instabilities: Modern Experimental Techniques and Analysis. 2014,	5
612	Investigating mode competition and three-dimensional features from two-dimensional velocity fields in an open cavity flow by modal decompositions. <b>2014</b> , 26, 085101	14
611	Advection modes by optimal mass transfer. <b>2014</b> , 89, 022923	35
610	A computational physiology approach to personalized treatment models: the beneficial effects of slow breathing on the human cardiovascular system. <b>2014</b> , 307, H1073-91	15
609	Effects of weak noise on oscillating flows: Linking quality factor, Floquet modes, and Koopman spectrum. <b>2014</b> , 26, 094104	40
608	Reduced-order representation of near-wall structures in the late transitional boundary layer. <b>2014</b> , 748, 278-301	49
607	Sparsity-promoting dynamic mode decomposition. <b>2014</b> , 26, 024103	384
606	The identification of coherent structures using proper orthogonal decomposition and dynamic mode decomposition. <b>2014</b> , 49, 53-72	99
605	Partitioning power grids via nonlinear Koopman Mode Analysis. <b>2014</b> ,	8
604	Nonlinear Koopman Modes and Power System Stability Assessment Without Models. <b>2014</b> , 29, 899-907	70

603	Mode switching in a thick orifice jet, an LES and dynamic mode decomposition approach. <b>2014</b> , 90, 101-112	23
602	Model reduction using Dynamic Mode Decomposition. <b>2014</b> , 342, 410-416	61
601	Global Mode Analysis in the L/T Transition of a Hypersonic Boundary Layer Forced by Wall Injection. <b>2015</b> , 14, 58-67	1
600	Identifying finite-time coherent sets from limited quantities of Lagrangian data. <b>2015</b> , 25, 087408	22
599	Global Parametrization of the Invariant Manifold Defining Nonlinear Normal Modes Using the Koopman Operator. <b>2015</b> ,	3
598	Ergodic theory and visualization. II. Fourier mesochronic plots visualize (quasi)periodic sets. <b>2015</b> , 25, 053105	8
597	A DataDriven Approximation of the Koopman Operator: Extending Dynamic Mode Decomposition. <b>2015</b> , 25, 1307-1346	541
596	Multi-Way Partitioning of Power Networks via Koopman Mode Analysis. <b>2015</b> , 48, 421-426	1
595	Fourier mode decomposition of PIV data. <b>2015</b> , 58, 1935-1948	17
594	KOOPMAN MODES IN A NEAR-BANK REGION OF A TIDAL RIVER. <b>2015</b> , 71, I_205-I_210	2
593	A prony approximation of Koopman Mode Decomposition. 2015,	36
592	On applications of the spectral theory of the Koopman operator in dynamical systems and control theory. <b>2015</b> ,	10
591	An operator-theoretic approach to differential positivity. <b>2015</b> ,	6
590	Koopman operator based nonlinear dynamic textures. 2015,	6
589	Closed-Loop Turbulence Control: Progress and Challenges. <b>2015</b> , 67,	241
588	Instability and Control of Massively Separated Flows. 2015,	
587	Comparative analysis of existing models for power-grid synchronization. <b>2015</b> , 17, 015012	134
586	Large eddy simulations of acoustic-flow interaction at an orifice plate. <b>2015</b> , 345, 162-177	9

585	On the accuracy of dynamic mode decomposition in estimating instability of wave packet. <b>2015</b> , 56, 1	10
584	Dynamic mode decomposition of separated flow over a finite blunt plate: time-resolved particle image velocimetry measurements. <b>2015</b> , 56, 1	22
583	A dynamic mode decomposition approach for large and arbitrarily sampled systems. <b>2015</b> , 27, 025113	61
582	Flow around a hemisphere-cylinder at high angle of attack and low Reynolds number. Part II: POD and DMD applied to reduced domains. <b>2015</b> , 44, 88-100	31
581	Hypersonic Boundary-Layer Transition Tripped by Wall Injection: Global Mode Analysis. 2015,	1
580	A new decomposition strategy approach applied for web winding system control optimization. <b>2015</b> ,	3
579	Dynamic mode decomposition of forced spatially developed transitional jets. <b>2015</b> , 51, 16-26	18
578	Building energy modeling: A systematic approach to zoning and model reduction using Koopman Mode Analysis. <b>2015</b> , 86, 794-802	39
577	Flow around a hemisphere-cylinder at high angle of attack and low Reynolds number. Part I: Experimental and numerical investigation. <b>2015</b> , 44, 77-87	31
576	Mini-Workshop: Applied Koopmanism. <b>2016</b> , 13, 297-340	
576 575	Mini-Workshop: Applied Koopmanism. 2016, 13, 297-340  Koopman Invariant Subspaces and Finite Linear Representations of Nonlinear Dynamical Systems for Control. 2016, 11, e0150171	160
	Koopman Invariant Subspaces and Finite Linear Representations of Nonlinear Dynamical Systems	160
575	Koopman Invariant Subspaces and Finite Linear Representations of Nonlinear Dynamical Systems for Control. <b>2016</b> , 11, e0150171	
575 574	Koopman Invariant Subspaces and Finite Linear Representations of Nonlinear Dynamical Systems for Control. <b>2016</b> , 11, e0150171  Non-synchronous generation impact on power systems coherency. <b>2016</b> , 10, 2443-2453	33
575 574 573	Koopman Invariant Subspaces and Finite Linear Representations of Nonlinear Dynamical Systems for Control. <b>2016</b> , 11, e0150171  Non-synchronous generation impact on power systems coherency. <b>2016</b> , 10, 2443-2453  Wind farm flow modeling using an input-output reduced-order model. <b>2016</b> ,	33 15
575 574 573	Koopman Invariant Subspaces and Finite Linear Representations of Nonlinear Dynamical Systems for Control. 2016, 11, e0150171  Non-synchronous generation impact on power systems coherency. 2016, 10, 2443-2453  Wind farm flow modeling using an input-output reduced-order model. 2016,  Koopman operator based observer synthesis for control-affine nonlinear systems. 2016,	33 15 42
575 574 573 572 571	Koopman Invariant Subspaces and Finite Linear Representations of Nonlinear Dynamical Systems for Control. 2016, 11, e0150171  Non-synchronous generation impact on power systems coherency. 2016, 10, 2443-2453  Wind farm flow modeling using an input-output reduced-order model. 2016,  Koopman operator based observer synthesis for control-affine nonlinear systems. 2016,  Pattern recognition and classification of HVAC rule-based faults in commercial buildings. 2016,  An operator-theoretic viewpoint to non-smooth dynamical systems: Koopman analysis of a hybrid	33 15 42

## (2016-2016)

567	Linear identification of nonlinear systems: A lifting technique based on the Koopman operator. <b>2016</b> ,	38
566	Koopman Mode Decomposition for Periodic/Quasi-periodic Time Dependence. <b>2016</b> , 49, 690-697	8
565	Shaping Pulses to Control Bistable Monotone Systems Using Koopman Operator. <b>2016</b> , 49, 698-703	7
564	Linear observer synthesis for nonlinear systems using Koopman Operator framework. <b>2016</b> , 49, 716-723	70
563	Sparse Identification of Nonlinear Dynamics with Control (SINDYc)**SLB acknowledges support from the U.S. Air Force Center of Excellence on Nature Inspired Flight Technologies and Ideas (FA9550-14-1-0398). JLP thanks Bill and Melinda Gates for their active support of the Institute of	43
562	Disease Modeling and their sponsorship through the Global Good Fund. JNK acknowledges support  On Koopman and dynamic mode decompositions for application to dynamic data with low spatial dimension. 2016,	6
561	Dynamic Mode Decomposition with Control. <b>2016</b> , 15, 142-161	284
560	Dynamic mode decomposition for non-uniformly sampled data. <b>2016</b> , 57, 1	7
559	Multiresolution Dynamic Mode Decomposition. <b>2016</b> , 15, 713-735	146
558	Inspecting sound sources in an orifice-jet flow using Lagrangian coherent structures. <b>2016</b> , 140, 397-405	9
557	Applied Koopman operator theory for power systems technology. <b>2016</b> , 7, 430-459	45
556	Nonlinear normal modes and spectral submanifolds: existence, uniqueness and use in model reduction. <i>Nonlinear Dynamics</i> , <b>2016</b> , 86, 1493-1534	74
555	Koopman mode analysis of power systems oscillations. <b>2016</b> ,	1
554	Properties of isostables and basins of attraction of monotone systems. 2016,	6
553	Dynamic Mode Decomposition for Robust PCA with Applications to Foreground/Background Subtraction in Video Streams and Multi-Resolution Analysis. <b>2016</b> , 19-1-19-16	
552	Dynamic Mode Decomposition for Robust PCA with Applications to Foreground/Background Subtraction in Video Streams and Multi-Resolution Analysis. <b>2016</b> , 441-456	4
551	A spectral characterization of nonlinear normal modes. <b>2016</b> , 377, 284-301	21
550	Characterizing and correcting for the effect of sensor noise in the dynamic mode decomposition. <b>2016</b> , 57, 1	141

549	Global Stability Analysis Using the Eigenfunctions of the Koopman Operator. 2016, 61, 3356-3369	104
548	Extracting spatial-temporal coherent patterns in large-scale neural recordings using dynamic mode decomposition. <b>2016</b> , 258, 1-15	193
547	A comparison of data reduction techniques for the aeroacoustic analysis of flow over a blunt flat plate. <b>2016</b> , 30, 253-274	2
546	Data-Driven Partitioning of Power Networks Via Koopman Mode Analysis. <b>2016</b> , 31, 2799-2808	37
545	The method of dynamic mode decomposition in shallow water and a swirling flow problem. <b>2017</b> , 83, 73-89	18
544	Colour of turbulence. <b>2017</b> , 812, 636-680	56
543	Numerical Study of Supersonic Boundary-Layer Transition due to Sonic Wall Injection. <b>2017</b> , 55, 1530-1547	6
542	Dynamics of an unsteady stagnation vortical flow via dynamic mode decomposition analysis. <b>2017</b> , 58, 1	8
541	Low-dimensional representation of near-wall dynamics in shear flows, with implications to wall-models. <b>2017</b> , 375,	1
540	Spectral Identification of Networks Using Sparse Measurements. <b>2017</b> , 16, 479-513	13
539	An spatiotemporal information system based wide-area protection fault identification scheme. <b>2017</b> , 89, 136-145	18
538	Kernel Analog Forecasting of Tropical Intraseasonal Oscillations. <b>2017</b> , 74, 1321-1342	11
537	Variational Koopman models: Slow collective variables and molecular kinetics from short off-equilibrium simulations. <b>2017</b> , 146, 154104	58
536	Data-driven discovery of partial differential equations. <b>2017</b> , 3, e1602614	439
535	Heat transfer enhancement by flexible flags clamped vertically in a Poiseuille channel flow. <b>2017</b> , 107, 391-402	23
534	Model order reduction using DMD modes and adjoint DMD modes. 2017,	6
533	Geometric Properties of Isostables and Basins of Attraction of Monotone Systems. <b>2017</b> , 62, 6183-6194	8
532	A DMD-Based Automatic Transition Prediction Method for Flows over Airfoils. <b>2017</b> ,	1

531 Extraction and Reconstruction of Individual Vortex-Shedding Mode from Bistable Flow. **2017**, 55, 2129-2141

530	Randomized dynamic mode decomposition for nonintrusive reduced order modelling. <b>2017</b> , 112, 3-25		57
529	estimation of memory effects in reduced-order models of nonlinear systems using the Mori-Zwanzig formalism. <b>2017</b> , 473, 20170385		21
528	Subspace dynamic mode decomposition for stochastic Koopman analysis. <b>2017</b> , 96, 033310		26
527	Quasi-periodic intermittency in oscillating cylinder flow. <b>2017</b> , 828, 680-707		9
526	High-dimensional time series prediction using kernel-based Koopman mode regression. <i>Nonlinear Dynamics</i> , <b>2017</b> , 90, 1785-1806	5	12
525	Nonlinear Model Order Reduction via Dynamic Mode Decomposition. <b>2017</b> , 39, B778-B796		37
524	A multi-grid framework for the extraction of large-scale vortices in Large-Eddy Simulation. <b>2017</b> , 349, 528-560		2
523	Using modal decompositions to explain the sudden expansion of the mixing layer in the wake of a groyne in a shallow flow. <b>2017</b> , 107, 451-459		21
522	Chaos as an intermittently forced linear system. <b>2017</b> , 8, 19		170
521	Development and Dynamical Analysis of Laboratory Facility Exhibiting Full-Scale Combustion Instability Characteristics. <b>2017</b> , 55, 4314-4329		6
520	Controlling a meandering wake: Insights from full-information control. <b>2017</b> ,		1
519	Stochastic modelling and diffusion modes for proper orthogonal decomposition models and small-scale flow analysis. <b>2017</b> , 826, 888-917		10
518	Extended dynamic mode decomposition with dictionary learning: A data-driven adaptive spectral decomposition of the Koopman operator. <b>2017</b> , 27, 103111		118
517	Sparse Sensing and DMD-Based Identification of Flow Regimes and Bifurcations in Complex Flows. <b>2017</b> , 16, 1164-1196		45
516	Efficient Infrastructure Restoration Strategies Using the Recovery Operator. <b>2017</b> , 32, 991-1006		24
515	Modal Analysis of Fluid Flows: An Overview. <b>2017</b> , 55, 4013-4041		508
514	Ergodic Theory, Dynamic Mode Decomposition, and Computation of Spectral Properties of the Koopman Operator. <b>2017</b> , 16, 2096-2126		147

A Data-Driven Approach for UAV Tracking Control. **2017**,

512	Data-Driven Modeling for Nonlinear Fluid Flows. 2017,	2
511	De-biasing the dynamic mode decomposition for applied Koopman spectral analysis of noisy datasets. <b>2017</b> , 31, 349-368	132
510	Numerical Simulation of Turbulent Flows. <b>2017</b> , 207-235	
509	Machine Learning Control Taming Nonlinear Dynamics and Turbulence. 2017,	72
508	Model Reduction for Flow Analysis and Control. <b>2017</b> , 49, 387-417	281
507	Koopman-operator Observer-based Estimation of Pedestrian Crowd Flows. 2017, 50, 14028-14033	3
506	Sparse nonnegative dynamic mode decomposition. <b>2017</b> ,	32
505	Eigenvalues and poles of nonlinear systems: A geometric approach. 2017,	3
504	Global bilinearization and controllability of control-affine nonlinear systems: A Koopman spectral approach. <b>2017</b> ,	9
503	On Convergence of Extended Dynamic Mode Decomposition to the Koopman Operator. <b>2018</b> , 28, 687-710	103
502	Implications of the selection of a particular modal decomposition technique for the analysis of shallow flows. <b>2018</b> , 56, 796-805	21
501	Sparse reduced-order modelling: sensor-based dynamics to full-state estimation. <b>2018</b> , 844, 459-490	86
500	Data-Driven Model Reduction and Transfer Operator Approximation. <b>2018</b> , 28, 985-1010	124
499	Hidden physics models: Machine learning of nonlinear partial differential equations. 2018, 357, 125-141	380
498	Constrained sparse Galerkin regression. <b>2018</b> , 838, 42-67	122
497	VAMPnets for deep learning of molecular kinetics. <b>2018</b> , 9, 5	168
496	On reduced input-output dynamic mode decomposition. <b>2018</b> , 44, 1751-1768	12

495	Generalizing Koopman Theory to Allow for Inputs and Control. 2018, 17, 909-930	64
494	Unsteady behavior of a sweeping impinging jet: Time-resolved particle image velocimetry measurements. <b>2018</b> , 96, 111-127	30
493	Linear predictors for nonlinear dynamical systems: Koopman operator meets model predictive control. <b>2018</b> , 93, 149-160	183
492	Time-lagged autoencoders: Deep learning of slow collective variables for molecular kinetics. <b>2018</b> , 148, 241703	162
491	Optimal control formulation of pulse-based control using Koopman operator. <b>2018</b> , 91, 217-224	19
490	Koopman Analysis Based Wide-Area Back-Up Protection and Faulted Line Identification for Series-Compensated Power Network. <b>2018</b> , 12, 2634-2644	21
489	Sparsity enabled cluster reduced-order models for control. <b>2018</b> , 352, 388-409	16
488	Bifurcation equations for periodic orbits of implicit discrete dynamical systems. <i>Nonlinear Dynamics</i> , <b>2018</b> , 91, 387-402	
487	Pulse-Based Control Using Koopman Operator Under Parametric Uncertainty. 2018, 63, 791-796	7
486	Decomposition of Nonlinear Dynamical Systems Using Koopman Gramians. 2018,	2
485	. 2018,	5
484	Estimation of Power System Inertia Using Nonlinear Koopman Modes. 2018,	4
483	. 2018,	1
482	Output Dynamic Mode Decomposition: An Extension of Dynamic Mode Decomposition Based on Output Functional Expansions. <b>2018</b> ,	3
481	Discovering Conservation Laws from Data for Control. 2018,	14
480	Deep Koopman Controller Synthesis for Cyber-Resilient Market-Based Frequency Regulation. <b>2018</b> , 51, 720-725	5
479	Data-Based Voltage Analysis of Power Systems via Delay Embedding and Extended Dynamic Mode Decomposition. <b>2018</b> , 51, 221-226	5
478	Mode decomposition methods for the analysis of cavitating flows in turbomachinery. <b>2018</b> , 148, 924-931	

477	An agent-based model of urban insurgence: Effect of gathering sites and Koopman mode analysis. <b>2018</b> , 13, e0205259	7
476	Deep learning for universal linear embeddings of nonlinear dynamics. <b>2018</b> , 9, 4950	258
475	Sparse identification of nonlinear dynamics for model predictive control in the low-data limit. <b>2018</b> , 474, 20180335	109
474	Data-Driven Approximation of Transfer Operators: Naturally Structured Dynamic Mode Decomposition. <b>2018</b> ,	5
473	Applied Koopman Theory for Partial Differential Equations and Data-Driven Modeling of Spatio-Temporal Systems. <b>2018</b> , 2018, 1-16	21
472	Time-resolved PIV measurements in a low-aspect ratio facility of randomly packed spheres and flow analysis using modal decomposition. <b>2018</b> , 59, 1	23
471	Data-driven spectral decomposition of ECoG signal from an auditory oddball experiment in a marmoset monkey: Implications for EEG data in humans. <b>2018</b> ,	2
470	Prediction of High-Dimensional Time Series with Exogenous Variables Using Generalized Koopman Operator Framework in Reproducing Kernel Hilbert Space. <b>2018</b> , 65-77	
469	Koopman Operator Family Spectrum for Nonautonomous Systems. <b>2018</b> , 17, 2478-2515	9
468	Efficiency of randomised dynamic mode decomposition for reduced order modelling. 2018, 32, 88-103	11
467	A Class of Logistic Functions for Approximating State-Inclusive Koopman Operators. 2018,	11
466	Spatio-Temporal Koopman Decomposition. <b>2018</b> , 28, 1793-1842	17
465	Spectral proper orthogonal decomposition and its relationship to dynamic mode decomposition and resolvent analysis. <b>2018</b> , 847, 821-867	319
464	Koopman analysis of the long-term evolution in a turbulent convection cell. <b>2018</b> , 847, 735-767	29
463	Deep Multilayer Convolution Frameworks for Data-Driven Learning of Fluid flow Dynamics. 2018,	3
462	Sparse identification of nonlinear dynamics for rapid model recovery. <b>2018</b> , 28, 063116	50
461	On Matching, and Even Rectifying, Dynamical Systems through Koopman Operator Eigenfunctions. <b>2018</b> , 17, 1925-1960	14
460	Operator-Theoretic Characterization of Eventually Monotone Systems. <b>2018</b> , 2, 429-434	6

## (2019-2018)

459	Data-driven reduced modelling of turbulent Rayleigh <b>B</b> Bard convection using DMD-enhanced fluctuationdissipation theorem. <b>2018</b> , 852,	7
458	Data Driven Modal Decompositions: Analysis and Enhancements. <b>2018</b> , 40, A2253-A2285	20
457	A Koopman Operator Approach for Computing and Balancing Gramians for Discrete Time Nonlinear Systems. <b>2018</b> ,	8
456	On sample-based computations of invariant sets. <i>Nonlinear Dynamics</i> , <b>2018</b> , 94, 2613-2624 5	1
455	Robust Approximation of Koopman Operator and Prediction in Random Dynamical Systems. 2018,	7
454	Global computation of phase-amplitude reduction for limit-cycle dynamics. 2018, 28, 073108	17
453	Data-Driven Sparse Sensor Placement for Reconstruction: Demonstrating the Benefits of Exploiting Known Patterns. <b>2018</b> , 38, 63-86	123
452	Data-Driven Filtered Reduced Order Modeling of Fluid Flows. <b>2018</b> , 40, B834-B857	61
451	. <b>2018</b> , 33, 7228-7237	37
450	Networked-oscillator-based modeling and control of unsteady wake flows. 2018, 97, 063107	13
449	Modal decomposition of turbulent supersonic cavity. <b>2019</b> , 29, 135-151	7
448	An LC-Circuit Model for Dynamics of In-Building Heat Transfer across Atrium Space. <b>2019</b> , 238, 012012	2
447	Reduction of the mathematical model of liquid flow within an instability. <b>2019</b> , 240, 072026	2
446	Deflation reveals dynamical structure in nondominant reaction coordinates. <b>2019</b> , 151, 054103	8
445	Dynamics reconstruction and classification via Koopman features. <b>2019</b> , 33, 1710-1735	2
444	Characterizing coherent structures in Bose-Einstein condensates through dynamic-mode decomposition. <b>2019</b> , 99, 062215	0
443	Data Driven Koopman Spectral Analysis in VandermondeCauchy Form via the DFT: Numerical Method and Theoretical Insights. <b>2019</b> , 41, A3118-A3151	6
442	Koopman Mode Analysis of agent-based models of logistics processes. <b>2019</b> , 14, e0222023	3

441	Eigenfunctions of Galactic phase space spirals from dynamic mode decomposition. 2019, 490, 114-123	9
440	On the Approximation of Koopman Spectra for Measure Preserving Transformations. <b>2019</b> , 18, 1454-1497	8
439	Data-driven discovery of coordinates and governing equations. <b>2019</b> , 116, 22445-22451	135
438	Processing epidemiological data using dynamic mode decomposition method. 2019,	3
437	Capabilities and limitations of time-lagged autoencoders for slow mode discovery in dynamical systems. <b>2019</b> , 151, 064123	13
436	Large eddy simulation of film cooling flow from round and trenched holes. <b>2019</b> , 144, 118631	18
435	Dynamic Mode Decomposition of Stratified Wakes. 2019,	0
434	Quantum mechanics and data assimilation. <b>2019</b> , 100, 032207	2
433	Koopman mode expansions between simple invariant solutions. <b>2019</b> , 879, 1-27	14
432	Sparse feature map-based Markov models for nonlinear fluid flows. <b>2019</b> , 191, 104252	6
431	Using the Nonuniform Dynamic Mode Decomposition to Reduce the Storage Required for PDE Simulations. <b>2019</b> , 2019, 1-15	1
430	Coupled interactions of a helical precessing vortex core and the central recirculation bubble in a swirl flame at elevated power density. <b>2019</b> , 202, 119-131	13
429	On the stability of a Blasius boundary layer subject to localised suction. <b>2019</b> , 871, 717-741	3
428	Entropy nonconservation and boundary conditions for Hamiltonian dynamical systems. <b>2019</b> , 99, 062121	2
427	Dynamic mode decomposition in vector-valued reproducing kernel Hilbert spaces for extracting dynamical structure among observables. <b>2019</b> , 117, 94-103	10
426	Spatiotemporal Pattern Extraction by Spectral Analysis of Vector-Valued Observables. <b>2019</b> , 29, 2385-2445	6
425	Randomized model order reduction. <b>2019</b> , 45, 1251-1271	11
424	Methods for data-driven multiscale model discovery for materials. <b>2019</b> , 2, 044002	17

423	Multi-scale proper orthogonal decomposition of complex fluid flows. <b>2019</b> , 870, 988-1036	48
422	Scalable Extended Dynamic Mode Decomposition Using Random Kernel Approximation. <b>2019</b> , 41, A1482-A14	99
421	Understanding and Predicting Nonlinear Turbulent Dynamical Systems with Information Theory. <b>2019</b> , 10, 248	1
420	Delay-Coordinate Maps and the Spectra of Koopman Operators. <b>2019</b> , 175, 1107-1145	30
419	Analysis of the effect of the 3C kinematic field of a confined impinging jet on a slotted plate by stereoscopic PIV. <b>2019</b> , 76, 243-258	7
418	Supervised dynamic mode decomposition via multitask learning. <b>2019</b> , 122, 7-13	10
417	Identification of kinetic order parameters for non-equilibrium dynamics. <b>2019</b> , 150, 164120	15
416	A transition prediction method for flow over airfoils based on high-order dynamic mode decomposition. <b>2019</b> , 32, 2408-2421	20
415	Simultaneous coherent structure coloring facilitates interpretable clustering of scientific data by amplifying dissimilarity. <b>2019</b> , 14, e0212442	6
414	Linearly Recurrent Autoencoder Networks for Learning Dynamics. <b>2019</b> , 18, 558-593	68
413	Data-Driven Identification of Parametric Partial Differential Equations. <b>2019</b> , 18, 643-660	73
412	Model selection for hybrid dynamical systems via sparse regression. <b>2019</b> , 475, 20180534	21
411	Discovery of Nonlinear Multiscale Systems: Sampling Strategies and Embeddings. <b>2019</b> , 18, 312-333	54
410	Data-Driven Dynamical Systems. <b>2019</b> , 229-275	1
409	Linear Control Theory. <b>2019</b> , 276-320	1
408	Balanced Models for Control. <b>2019</b> , 321-344	
407	Data-Driven Control. <b>2019</b> , 345-372	О
406	Reduced Order Models (ROMs). <b>2019,</b> 375-402	O

405 Interpolation for Parametric ROMs. **2019**, 403-435

404	Glossary. <b>2019</b> , 436-442	
403	Bibliography. <b>2019</b> , 443-470	
402	Index. <b>2019</b> , 471-472	
401	Spatio-temporal proper orthogonal decomposition of turbulent channel flow. <b>2019</b> , 864, 614-639	23
400	Investigation of In-Cylinder Engine Flow Quadruple Decomposition Dynamical Behavior Using Proper Orthogonal Decomposition and Dynamic Mode Decomposition Methods. <b>2019</b> , 141,	4
399	Preface. <b>2019</b> , ix-xii	
398	Singular Value Decomposition (SVD). <b>2019</b> , 3-46	2
397	Fourier and Wavelet Transforms. <b>2019</b> , 47-83	О
396	Sparsity and Compressed Sensing. <b>2019</b> , 84-114	1
395	Regression and Model Selection. <b>2019</b> , 117-153	O
394	Clustering and Classification. <b>2019</b> , 154-194	
393	Neural Networks and Deep Learning. <b>2019</b> , 195-226	
392	On Computation of Koopman Operator from Sparse Data. <b>2019</b> ,	6
391	ON THE USE OF DYNAMIC MODE DECOMPOSITION FOR LIQUID INJECTION. <b>2019</b> , 29, 965-985	1
390	Warps, Waves, and Phase Spirals in the Milky Way. <b>2019</b> , 14, 65-70	1
389	On Information Transfer in Dynamical Systems with applications in Control of Non-equilibrium Dynamics. <b>2019</b> ,	О
388	A data-driven method for quantifying the impact of a genetic circuit on its host. <b>2019</b> ,	О

## (2020-2019)

387	Koopman Operators for Generalized Persistence of Excitation Conditions for Nonlinear Systems. <b>2019</b> ,	1
386	Efficient Identification of Linear Evolutions in Nonlinear Vector Fields: Koopman Invariant Subspaces. <b>2019</b> ,	5
385	Markov Models of Molecular Kinetics. <b>2019</b> , 151, 190401	23
384	Data-driven spectral analysis for coordinative structures in periodic human locomotion. <b>2019</b> , 9, 16755	8
383	Approximating the Koopman Operator using Noisy Data: Noise-Resilient Extended Dynamic Mode Decomposition. <b>2019</b> ,	4
382	. 2019,	42
381	Sample Complexity for Nonlinear Stochastic Dynamics. 2019,	3
380	Removing Pollution in the Fourier Space Representation of Non-Periodic Signals over Finite Domains. <b>2019</b> ,	
379	Solving Generalized Eigenvalue Problem: an Alternative Approach for Dynamic Mode Decomposition. <b>2019</b> ,	1
378	Characterization of a canonical helicopter hub wake. <b>2019</b> , 60, 1	1
377	Data-Driven Participation Factors for Nonlinear Systems Based on Koopman Mode Decomposition. <b>2019</b> , 3, 198-203	19
376	Data-driven spectral decomposition and forecasting of ergodic dynamical systems. <b>2019</b> , 47, 338-396	53
375	Koopman Operator Framework for Time Series Modeling and Analysis. <b>2020</b> , 30, 1973-2006	13
374	Data-driven spectral analysis of the Koopman operator. <b>2020</b> , 48, 599-629	35
373	Koopman Operator Spectrum for Random Dynamical Systems. <b>2020</b> , 30, 2007-2056	11
372	Modal Analysis of Fluid Flows: Applications and Outlook. <b>2020</b> , 58, 998-1022	124
371	Dynamic Mode Decomposition for Compressive System Identification. <b>2020</b> , 58, 561-574	22
370	Variational Approach for Learning Markov Processes from Time Series Data. <b>2020</b> , 30, 23-66	66

369	On Robust Computation of Koopman Operator and Prediction in Random Dynamical Systems. <b>2020</b> , 30, 2057-2090	5
368	Data-driven Koopman operator approach for computational neuroscience. <b>2020</b> , 88, 1155-1173	4
367	Singularities and Moments of Nonlinear Systems. <b>2020</b> , 65, 3647-3654	2
366	Dynamic mode decomposition for analytic maps. <b>2020</b> , 84, 105179	4
365	Koopman-Based Lifting Techniques for Nonlinear Systems Identification. <b>2020</b> , 65, 2550-2565	24
364	Extraction and prediction of coherent patterns in incompressible flows through space <b>ti</b> me Koopman analysis. <b>2020</b> , 402, 132211	4
363	Data-Driven Reduction and Decomposition via Time-Axis Clustering. 2020,	О
362	Spectrum of the Koopman Operator, Spectral Expansions in Functional Spaces, and State-Space Geometry. <b>2020</b> , 30, 2091-2145	34
361	Linearization of Recurrent-Neural-Network- Based Models for Predictive Control of Nano-Positioning Systems Using Data-Driven Koopman Operators. <b>2020</b> , 8, 147077-147088	5
360	Data-Driven Model Predictive Control using Interpolated Koopman Generators. <b>2020</b> , 19, 2162-2193	13
359	Data-Driven Operator Theoretic Methods for Global Phase Space Learning. 2020,	4
358	Comparison of the Atmospheric 200 hPa Jet Analyses between Proper Orthogonal Decomposition and Advanced Dynamic Mode Decomposition Method. <b>2020</b> , 2020, 1-15	
357	Advances in Dynamics, Optimization and Computation. 2020,	1
356	Spectral analysis of the Koopman operator for partial differential equations. <b>2020</b> , 30, 113131	7
355	Sampling Low-Dimensional Markovian Dynamics for Preasymptotically Recovering Reduced Models from Data with Operator Inference. <b>2020</b> , 42, A3489-A3515	11
354	Prediction of fitness in bacteria with causal jump dynamic mode decomposition. 2020,	O
353	On the structure of time-delay embedding in linear models of non-linear dynamical systems. <b>2020</b> , 30, 073135	13
352	A note on the reconstruction of a 3D-3C velocity field for box turbulence. <b>2020</b> , 1522, 012023	

351	Data-Driven Pulsatile Blood Flow Physics with Dynamic Mode Decomposition. <b>2020</b> , 5, 111	14
350	Koopman spectra in reproducing kernel Hilbert spaces. <b>2020</b> , 49, 573-607	12
349	Kernel-Based Approximation of the Koopman Generator and Schrdinger Operator. 2020, 22,	11
348	Steady state programming of controlled nonlinear systems via deep dynamic mode decomposition. <b>2020</b> ,	Ο
347	Global phase-amplitude description of oscillatory dynamics via the parameterization method. <b>2020</b> , 30, 083117	9
346	Exponentially decaying modes and long-term prediction of sea ice concentration using Koopman mode decomposition. <b>2020</b> , 10, 16313	5
345	A Unified Sparse Optimization Framework to Learn Parsimonious Physics-Informed Models From Data. <b>2020</b> , 8, 169259-169271	18
344	Koopman mode decomposition of oscillatory temperature field inside a room. <b>2020</b> , 102, 022210	Ο
343	Discrete System Linearization using Koopman Operators for Predictive Control and Its Application in Nano-positioning. <b>2020</b> ,	
342	Koopman-Operator-Based Attitude Dynamics and Control on SO(3). <b>2020</b> , 43, 2112-2126	13
341	Revealing the Dynamical Transition of Anisotropy Behind the HOST by Koopman Analysis. <b>2020</b> , 47, e2020Gl	.09 <u>1</u> 123
340	Reduction of Hydrodynamic Mixing Models on the Basis of the DMD Algorithm. <b>2020</b> , 93, 1529-1537	
339	Koopman mode analysis on thermal data for building energy assessment. <b>2020</b> , 1-15	2
338	A review on nonlinear modes in conservative mechanical systems. <b>2020</b> , 50, 49-71	12
337	Physics-Informed Probabilistic Learning of Linear Embeddings of Nonlinear Dynamics with Guaranteed Stability. <b>2020</b> , 19, 480-509	39
336	Diffusion Maps Kalman Filter for a Class of Systems With Gradient Flows. <b>2020</b> , 68, 2739-2753	3
335	On the Koopman Operator of Algorithms. <b>2020</b> , 19, 860-885	3
334	Time-Delay Observables for Koopman: Theory and Applications. <b>2020</b> , 19, 886-917	23

333	Data-Guided Aerial Tracking. <b>2020</b> , 43, 1540-1549	1
332	Machine Learning Meets Quantum Physics. 2020,	26
331	Operator-theoretic framework for forecasting nonlinear time series with kernel analog techniques. <b>2020</b> , 409, 132520	10
330	Assessment of end-to-end and sequential data-driven learning for non-intrusive modeling of fluid flows. <b>2020</b> , 46, 1	O
329	Renormalization group as a Koopman operator. <b>2020</b> , 101, 060104	1
328	Machine Learning Force Fields and Coarse-Grained Variables in Molecular Dynamics: Application to Materials and Biological Systems. <b>2020</b> , 16, 4757-4775	46
327	Characterizing magnetized plasmas with dynamic mode decomposition. <b>2020</b> , 27, 032108	19
326	Data-based analysis of multimodal partial cavity shedding dynamics. <b>2020</b> , 61, 1	8
325	A Survey on the Methods and Results of Data-Driven Koopman Analysis in the Visualization of Dynamical Systems. <b>2020</b> , 1-1	1
324	Data-driven modeling of the wake behind a wind turbine array. <b>2020</b> , 12, 033304	14
323	Incorporating physical constraints in a deep probabilistic machine learning framework for coarse-graining dynamical systems. <b>2020</b> , 419, 109673	3
322	Study of the thermo-magneto-hydrodynamic flow of micropolar-nanofluid in square enclosure using dynamic mode decomposition and proper orthogonal decomposition. <b>2020</b> , 84, 272-288	3
321	Machine Learning for Molecular Simulation. <b>2020</b> , 71, 361-390	193
320	Physically-interpretable classification of biological network dynamics for complex collective motions. <b>2020</b> , 10, 3005	5
319	Sampling and resolution characteristics in reduced order models of shallow water equations: Intrusive vs nonintrusive. <b>2020</b> , 92, 992-1036	8
318	Searching turbulence for periodic orbits with dynamic mode decomposition. <b>2020</b> , 886,	10
317	Lagrangian dynamic mode decomposition for construction of reduced-order models of advection-dominated phenomena. <b>2020</b> , 407, 109229	11
316	Effects of nose bluntness on hypersonic boundary layer receptivity and stability. 2020,	О

315	Digital Twin: Values, Challenges and Enablers From a Modeling Perspective. <b>2020</b> , 8, 21980-22012	264
314	Data-driven analysis and forecasting of highway traffic dynamics. <b>2020</b> , 11, 2090	19
313	Thermal performance prediction of the battery surface via dynamic mode decomposition. <b>2020</b> , 201, 117642	6
312	A Koopman operator approach for machinery health monitoring and prediction with noisy and low-dimensional industrial time series. <b>2020</b> , 406, 204-214	7
311	Deep Koopman model predictive control for enhancing transient stability in power grids. <b>2021</b> , 31, 1964-1978	4
310	A data-driven non-linear assimilation framework with neural networks. <b>2021</b> , 25, 233-242	1
309	Deep learning models for global coordinate transformations that linearise PDEs. <b>2021</b> , 32, 515-539	11
308	Nonlinear observability via Koopman Analysis: Characterizing the role of symmetry. <b>2021</b> , 124, 109353	1
307	Data-driven model reduction, Wiener projections, and the Koopman-Mori-Zwanzig formalism. <b>2021</b> , 424, 109864	17
306	Nonlinear Model Order Reduction via Nonlinear Moment Matching with Dynamic Mode Decomposition. <b>2021</b> , 128, 103625	5
305	Delay-coordinate maps, coherence, and approximate spectra of evolution operators. <b>2021</b> , 8, 1	4
304	Bilinearization, Reachability, and Optimal Control of Control-Affine Nonlinear Systems: A Koopman Spectral Approach. <b>2021</b> , 1-1	2
303	Kernel Analog Forecasting: Multiscale Test Problems. <b>2021</b> , 19, 1011-1040	1
302	A Dynamic Mode Decomposition Scheme to Analyze Power Quality Events. <b>2021</b> , 9, 70775-70788	1
301	On Aggregation and Prediction of Cybersecurity Incident Reports. <b>2021</b> , 9, 102636-102648	О
300	Detecting Equilibrium State of Dynamical Systems Using Sliding-Window Reduced-Order Dynamic Mode Decomposition. <b>2021</b> ,	
299	Pedestrian Behavior Anomaly Detection Based on Dynamic Mode Decomposition and One-Class SVM. <b>2021</b> ,	
298	Estimating Koopman operators for nonlinear dynamical systems: a nonparametric approach. <b>2021</b> , 54, 691-696	O

297	Data-Driven Learning of Nonautonomous Systems. <b>2021</b> , 43, A1607-A1624	2
296	Analysis of the ROA of an anaerobic digestion process via data-driven Koopman operator. <b>2021</b> , 10, 109-131	1
295	Total-Variation Mode Decomposition. <b>2021</b> , 52-64	1
294	On the Approximation of Koopman Spectra of Measure-Preserving Flows. <b>2021</b> , 20, 232-261	
293	Dynamic-mode decomposition and optimal prediction. <b>2021</b> , 103, 012201	2
292	Dynamic Mode Decomposition with Control Liouville Operators. <b>2021</b> , 54, 707-712	2
291	Parallel Learning of Koopman Eigenfunctions and Invariant Subspaces For Accurate Long-Term Prediction. <b>2021</b> , 1-1	2
290	Generic Properties of Koopman Eigenfunctions for Stable Fixed Points and Periodic Orbits. <b>2021</b> , 54, 267-272	1
289	Transient Prediction of Nanoparticle-Laden Droplet Drying Patterns through Dynamic Mode Decomposition. <b>2021</b> , 37, 2787-2799	2
288	Two methods to approximate the Koopman operator with a reservoir computer. <b>2021</b> , 31, 023116	O
287	Oscillatory flow around a vertical wall-mounted cylinder: Dynamic mode decomposition. <b>2021</b> , 33, 025113	5
286	Analysis of a convolutional neural network for predicting unsteady volume wake flow fields. <b>2021</b> , 33, 035152	2
285	Dynamic mode decomposition based analysis of flow past a transversely oscillating cylinder. <b>2021</b> , 33, 033604	7
284	Control-Oriented, Data-Driven Models of Thermal Dynamics. <b>2021</b> , 14, 1453	1
283	Modal extraction of spatiotemporal atomization data using a deep convolutional Koopman network. <b>2021</b> , 33, 033323	3
282	Bilinear dynamic mode decomposition for quantum control. <b>2021</b> , 23, 033035	3
281	Quantum dynamics of the classical harmonic oscillator. <b>2021</b> , 62, 042701	О
280	Binary classification of floor vibrations for human activity detection based on dynamic mode decomposition. <b>2021</b> , 432, 227-239	1

#### (2021-2021)

279	Sparsity-promoting algorithms for the discovery of informative Koopman-invariant subspaces. <b>2021</b> , 917,	9
278	Koopman Model Predictive Control-based Power System Stabilizer Design. 2021,	3
277	Improved Mode Multigrid Method for Accelerating Turbulence Flows. 1-13	1
276	How to win friends and influence functionals: deducing stochasticity from deterministic dynamics. <b>2021</b> , 230, 733-754	O
275	Exact Reduction of the Generalized LotkaWolterra Equations via Integral and Algebraic Substitutions. <b>2021</b> , 9, 49	
274	Dynamic Mode Decomposition of Random Pressure Fields over Bluff Bodies. <b>2021</b> , 147, 04021007	2
273	Koopman Operators for Estimation and Control of Dynamical Systems. <b>2021</b> , 4, 59-87	12
272	Reduced-order models for coupled dynamical systems: Data-driven methods and the Koopman operator. <b>2021</b> , 31, 053116	7
271	On Occupation Kernels, Liouville Operators, and Dynamic Mode Decomposition. 2021,	1
270	Data-Driven Approximation of Koopman-Invariant Subspaces with Tunable Accuracy. 2021,	
,		O
269	Trigonometric Embeddings in Polynomial Extended Mode Decomposition Experimental Application to an Inverted Pendulum. <b>2021</b> , 9, 1119	1
	Trigonometric Embeddings in Polynomial Extended Mode Decomposition Experimental	
269	Trigonometric Embeddings in Polynomial Extended Mode Decomposition Experimental Application to an Inverted Pendulum. <b>2021</b> , 9, 1119	1
269 268	Trigonometric Embeddings in Polynomial Extended Mode Decomposition Experimental Application to an Inverted Pendulum. 2021, 9, 1119  Game Balancing using Koopman-based Learning. 2021,  Robust Adaptive Dynamic Mode Decomposition for Reduce Order Modelling of Partial Differential	1
269 268 267	Trigonometric Embeddings in Polynomial Extended Mode Decomposition Experimental Application to an Inverted Pendulum. 2021, 9, 1119  Game Balancing using Koopman-based Learning. 2021,  Robust Adaptive Dynamic Mode Decomposition for Reduce Order Modelling of Partial Differential Equations. 2021,	1
269 268 267 266	Trigonometric Embeddings in Polynomial Extended Mode Decomposition Experimental Application to an Inverted Pendulum. 2021, 9, 1119  Game Balancing using Koopman-based Learning. 2021,  Robust Adaptive Dynamic Mode Decomposition for Reduce Order Modelling of Partial Differential Equations. 2021,  Unsupervised Learning Methods for Molecular Simulation Data. 2021, 121, 9722-9758	1 1 34
269 268 267 266 265	Trigonometric Embeddings in Polynomial Extended Mode Decomposition Experimental Application to an Inverted Pendulum. 2021, 9, 1119  Game Balancing using Koopman-based Learning. 2021,  Robust Adaptive Dynamic Mode Decomposition for Reduce Order Modelling of Partial Differential Equations. 2021,  Unsupervised Learning Methods for Molecular Simulation Data. 2021, 121, 9722-9758  On Koopman mode decomposition and tensor component analysis. 2021, 31, 051101	1 1 34

261	Nonlinear stochastic modelling with Langevin regression <b>2021</b> , 477, 20210092		11
260	Data-Driven Analysis for Understanding Team Sports Behaviors. <b>2021</b> , 33, 505-514		6
259	A comparative study of dynamic mode decomposition methods for mode identification in a cryogenic swirl injector. <b>2021</b> , 503, 116108		3
258	Inferring time-dependent distribution functions from kinematic snapshots. <b>2021</b> , 506, 3098-3110		1
257	Dynamics Analysis Using Koopman Mode Decomposition of a Microgrid Including Virtual Synchronous Generator-Based Inverters. <b>2021</b> , 14, 4581		1
256	Unsteady dynamics in the streamwise-oscillating cylinder wake for forcing frequencies below lock-on. <b>2021</b> , 6,		2
255	Model order reduction methods for geometrically nonlinear structures: a review of nonlinear techniques. <i>Nonlinear Dynamics</i> , <b>2021</b> , 105, 1141-1190	5	14
254	Dynamic mode decomposition of magnetohydrodynamic bubble chain flow in a rectangular vessel. <b>2021</b> , 33, 083316		1
253	Hierarchical deep learning for data-driven identification of reduced-order models of nonlinear dynamical systems. <i>Nonlinear Dynamics</i> , <b>2021</b> , 105, 3409-3422	5	3
252	Recurrent neural networks and Koopman-based frameworks for temporal predictions in a low-order model of turbulence. <b>2021</b> , 90, 108816		13
251	Data-driven modeling for unsteady aerodynamics and aeroelasticity. <b>2021</b> , 125, 100725		17
250	Neural fragility as an EEG marker of the seizure onset zone. <b>2021</b> , 24, 1465-1474		10
249	Phase-based control of periodic flows. <b>2021</b> , 927,		2
248	Asymptotic Phase and Amplitude for Classical and Semiclassical Stochastic Oscillators via Koopman Operator Theory. <b>2021</b> , 9, 2188		2
247	Neural Network-Based Model Reduction of Hydrodynamics Forces on an Airfoil. <b>2021</b> , 6, 332		1
246	On closures for reduced order models spectrum of first-principle to machine-learned avenues. <b>2021</b> , 33, 091301		17
245	Reproducing kernel Hilbert space compactification of unitary evolution groups. <b>2021</b> , 54, 75-136		8
244	Flow prediction using dynamic mode decomposition with time-delay embedding based on local measurement. <b>2021</b> , 33, 095109		4

#### (2021-2021)

243	Geometric considerations of a good dictionary for Koopman analysis of dynamical systems: Cardinality, primary eigenfunction, and efficient representation. <b>2021</b> , 100, 105833	6
242	Fast optimal entrainment of limit-cycle oscillators by strong periodic inputs via phase-amplitude reduction and Floquet theory. <b>2021</b> , 31, 093124	1
241	Probing the phase space of coupled oscillators with Koopman analysis. <b>2021</b> , 104, 034211	
240	A data-driven, physics-informed framework for forecasting the spatiotemporal evolution of chaotic dynamics with nonlinearities modeled as exogenous forcings. <b>2021</b> , 440, 110412	3
239	Connection among Stochastic Hamilton Dacobi Bellman Equation, Path-Integral, and Koopman Operator on Nonlinear Stochastic Optimal Control. <b>2021</b> , 90, 104802	О
238	Towards global optimal control via Koopman lifts. <b>2021</b> , 132, 109610	1
237	Learning the solution operator of parametric partial differential equations with physics-informed DeepONets. <b>2021</b> , 7, eabi8605	11
236	Existence and uniqueness of global Koopman eigenfunctions for stable fixed points and periodic orbits. <b>2021</b> , 425, 132959	7
235	Deep learning of conjugate mappings. <b>2021</b> , 427, 133008	1
234	Detection and prediction of equilibrium states in kinetic plasma simulations via mode tracking using reduced-order dynamic mode decomposition. <b>2021</b> , 447, 110671	О
233	Tensor-based computation of metastable and coherent sets. <b>2021</b> , 427, 133018	1
232	Deep learning nonlinear multiscale dynamic problems using Koopman operator. <b>2021</b> , 446, 110660	2
231	Koopman Operator Based Modeling for Quadrotor Control on SE(3). 2022, 6, 752-757	О
230	Online Koopman Operator Learning to identify Cross-Coupling Effect of Piezoelectric Tube Scanners in Atomic Force Microscopes. <b>2021</b> , 1-1	3
229	Synchrophasor-based Event Detection, Classification and Localization using Koopman, Transient Energy Matrix, Best Worth Method, and Dynamic Graph. <b>2021</b> , 1-1	2
228	Data-driven and operator-based tools for the analysis of turbulent flows. <b>2021</b> , 243-305	1
227	Machine Learning of Dynamics with Applications to Flow Control and Aerodynamic Optimization. <b>2021</b> , 327-335	О
226	Multilinear Control Systems Theory. <b>2021</b> , 59, 749-776	3

225	Learning Koopman Eigenfunctions and Invariant Subspaces from Data: Symmetric Subspace Decomposition. <b>2021</b> , 1-1	2
224	Modes of Homogeneous Gradient Flows. <b>2021</b> , 14, 913-945	2
223	Introduction to the Koopman Operator in Dynamical Systems and Control Theory. <b>2020</b> , 3-33	2
222	Feedback Control of Nonlinear PDEs Using Data-Efficient Reduced Order Models Based on the Koopman Operator. <b>2020</b> , 257-282	1
221	Data-Driven Nonlinear Stabilization Using Koopman Operator. <b>2020</b> , 313-334	5
220	Data-Driven Approximations of Dynamical Systems Operators for Control. <b>2020</b> , 197-234	7
219	Machine Learning for Molecular Dynamics on Long Timescales. <b>2020</b> , 331-372	10
218	Analysis of Flow Structures in the Wake of a High-Speed Train. <b>2016</b> , 3-19	1
217	Galerkin Models Enhancements for Flow Control. <b>2011</b> , 151-252	7
216	Reduced-order models for flow control: balanced models and Koopman modes. <b>2010</b> , 43-50	13
215	The description of fluid behavior by coherent structures. <b>2010</b> , 51-58	2
214	Application of Koopman operator for model-based control of fracture propagation and proppant transport in hydraulic fracturing operation. <b>2020</b> , 91, 25-36	14
213	Data-Driven Science and Engineering: Machine Learning, Dynamical Systems, and Control. 2019,	247
212	Data-driven spectral analysis for coordinative structures in periodic systems with unknown and redundant dynamics.	1
211	Correspondence between Koopman mode decomposition, resolvent mode decomposition, and invariant solutions of the Navier-Stokes equations. <b>2016</b> , 1,	51
210	Study of dynamics in post-transient flows using Koopman mode decomposition. <b>2017</b> , 2,	36
209	Koopman analysis of Burgers equation. <b>2018</b> , 3,	18
208	Reduced-order modeling of fully turbulent buoyancy-driven flows using the Green's function method. <b>2019</b> , 4,	7

## (2021-2020)

207	Robust principal component analysis for modal decomposition of corrupt fluid flows. 2020, 5,	23
206	Koopman⊠on Neumann approach to quantum simulation of nonlinear classical dynamics. <b>2020</b> , 2,	9
205	Quantifying smoothing effects of wind power via Koopman mode decomposition: A numerical test with wind speed predictions in Japan. <b>2017</b> , 8, 342-357	3
204	A Novel Intelligent Method for Bearing Fault Diagnosis Based on EEMD Permutation Entropy and GG Clustering. <b>2020</b> , 10, 386	21
203	Mesochronic classification of trajectories in incompressible 3D vector fields over finite times. <b>2016</b> , 9, 923-958	6
202	On dynamic mode decomposition: Theory and applications. <b>2014</b> , 1, 391-421	587
201	Compressed sensing and dynamic mode decomposition. <b>2015</b> , 2, 165-191	81
200	A kernel-based method for data-driven koopman spectral analysis. <b>2015</b> , 2, 247-265	112
199	Data-driven predictions of a multiscale Lorenz 96 chaotic system using machine-learning methods: reservoir computing, artificial neural network, and long short-term memory network. <b>2020</b> , 27, 373-389	48
198	Applications of Koopman Mode Decomposition to Modeling of Heat Transfer Dynamics in Building Atriums-I. <b>2017</b> , 53, 123-133	3
197	Koopman-Based Optimal Tracking Control of Nonlinear Dynamical Systems. 2021,	O
196	Contaminant Source Identification from Finite Sensor Data: Perron Frobenius Operator and Bayesian Inference. <b>2021</b> , 14, 6729	
195	Koopman Operator Framework for Spectral Analysis and Identification of Infinite-Dimensional Systems. <b>2021</b> , 9, 2495	
194	Dynamic Mode Decomposition and Its Variants. <b>2022</b> , 54,	18
193	Detection of functional communities in networks of randomly coupled oscillators using the dynamic-mode decomposition. <b>2021</b> , 104, 044305	
192	Dynamic mode decomposition and Koopman spectral analysis of boundary layer separation-induced transition. <b>2021</b> , 33, 104104	5
191	Structured time-delay models for dynamical systems with connections to Frenet-Serret frame <b>2021</b> , 477, 20210097	4
190	Koopman spectral analysis of elementary cellular automata. <b>2021</b> , 31, 103121	

189	Lagrangian approach for modal analysis of fluid flows. <b>2021</b> , 928,	1
188	Data-driven identification of nonlinear normal modes via physics-integrated deep learning.  Nonlinear Dynamics, 1  5	4
187	Reconstitution of Potential Function by Power Spectra of Trajectories in Nonlinear Dynamical Systems. <b>2012</b> , E95-A, 613-616	
186	Recovery of the Koopman Modes of a Leading-Edge Separated Aerofoil Flow via a Proper Orthogonal Decomposition Rank Reduction. <b>2015</b> , 39-44	
185	Applications of Koopman Mode Decomposition to Modeling of Heat Transfer Dynamics in Building Atriums-II. <b>2017</b> , 53, 188-197	
184	Coherency Estimation in Power Systems: A Koopman Operator Approach. <b>2019</b> , 201-225	2
183	Towards Scalable Koopman Operator Learning: Convergence Rates and A Distributed Learning Algorithm. <b>2020</b> ,	0
182	Data Driven Online Learning of Power System Dynamics. 2020,	3
181	Is the Finite-Time Lyapunov Exponent Field a Koopman Eigenfunction?. <b>2021</b> , 9, 2731	
180	Parameter Estimation and Identification of Nonlinear Systems with the Koopman Operator. <b>2020</b> , 335-357	
179	Learning Multiple Nonlinear Dynamical Systems with Side Information. 2020,	
178		
	Koopman analysis in oscillator synchronization. <b>2020</b> , 102, 062216	
177	Koopman analysis in oscillator synchronization. <b>2020</b> , 102, 062216  An MCMC Method for Uncertainty Set Generation via Operator-Theoretic Metrics. <b>2020</b> ,	
177 176		3
	An MCMC Method for Uncertainty Set Generation via Operator-Theoretic Metrics. <b>2020</b> ,  Koopman Operator Methods for Global Phase Space Exploration of Equivariant Dynamical Systems.	3
176	An MCMC Method for Uncertainty Set Generation via Operator-Theoretic Metrics. <b>2020</b> ,  Koopman Operator Methods for Global Phase Space Exploration of Equivariant Dynamical Systems. <b>2020</b> , 53, 1150-1155	
176 175	An MCMC Method for Uncertainty Set Generation via Operator-Theoretic Metrics. 2020,  Koopman Operator Methods for Global Phase Space Exploration of Equivariant Dynamical Systems. 2020, 53, 1150-1155  Model Predictive Control of a Vehicle using Koopman Operator. 2020, 53, 4228-4233	3

171	Modeling of Advective Heat Transfer in a Practical Building Atrium via Koopman Mode Decomposition. <b>2020</b> , 481-506	0
170	Dynamic Mode Decomposition: A Tool to Extract Structures Hidden in Massive Datasets. <b>2020</b> , 157-176	
169	Koopman Spectrum and Stability of Cascaded Dynamical Systems. <b>2020</b> , 99-129	О
168	Singular Value Decomposition of Operators on Reproducing Kernel Hilbert Spaces. <b>2020</b> , 109-131	
167	DATA-DRIVEN ANALYSIS OF NONLINEAR DYNAMICS BASED ON KOOPMAN OPERATOR THEORY AND ITS APPLICATION TO SHORT-TERM PRECIPITATION FORECAST. <b>2020</b> , 76, 22-37	
166	Application of Koopman-Based Control in Ultrahigh-Precision Positioning. <b>2020</b> , 451-479	О
165	Koopman Analysis of Isolated Fronts and Solitons. <b>2020</b> , 19, 2803-2828	3
164	Manifold Learning for Data-Driven Dynamical System Analysis. <b>2020</b> , 359-382	
163	Data-Driven Voltage Analysis of an Electric Power Grid via Delay Embedding and Extended Dynamic Mode Decomposition. <b>2020</b> , 507-522	O
162	Estimating Koopman Invariant Subspaces of Excited Systems Using Artificial Neural Networks. <b>2020</b> , 53, 1156-1162	1
161	Analysis of Accuracy and Adequacy of Dynamic Models of Objects. <b>2020</b> , 75-80	1
160	Data-Driven Congestion Control of Micro Smart Sensor Networks for Transparent Substations. <b>2021</b> , 1-1	
159	DeepGreen: deep learning of Green's functions for nonlinear boundary value problems. <b>2021</b> , 11, 21614	4
158	Tomographic Particle Image Velocimetry and Dynamic Mode Decomposition (DMD) in a Rectangular Impinging Jet: Vortex Dynamics and Acoustic Generation. <b>2021</b> , 6, 429	
157	Koopman operator dynamical models: Learning, analysis and control. <b>2021</b> , 52, 197-197	Ο
156	Deeptime: a Python library for machine learning dynamical models from time series data.	3
155	General perturbation correction: full-decomposition and physics-based elimination of non-secular terms. <b>2021</b> , 106966	
154	Spectral analysis of climate dynamics with operator-theoretic approaches. <b>2021</b> , 12, 6570	O

153	Dynamic Mode Decomposition for Continuous Time Systems with the Liouville Operator. <b>2022</b> , 32, 1	3
152	Data-driven feedback stabilisation of nonlinear systems: Koopman-based model predictive control. 1-0	2
151	Modeling Melburnians sing the Koopman operator to gain insight into crowd dynamics. <b>2021</b> , 133, 103437	1
150	Data-Driven Learning for the MoriZwanzig Formalism: A Generalization of the Koopman Learning Framework. <b>2021</b> , 20, 2558-2601	2
149	Koopman Operators for Bifurcation Analysis in Hypersonic Aerothermoelasticity. 2022,	
148	Linear Control of a Nonlinear Aerospace System via Extended Dynamic Mode Decomposition. 2022,	1
147	Learning and Leveraging Features in Flow-Like Environments to Improve Situational Awareness. <b>2022</b> , 1-1	1
146	A review of physics-based machine learning in civil engineering. <b>2022</b> , 13, 100316	10
145	System identification of a hysteresis-controlled pump system using SINDy. 2020,	1
144	Robust system identification for hysteresis-controlled devices using SINDy. 2020,	
144	Robust system identification for hysteresis-controlled devices using SINDy. 2020,  The Koopman Operator: Capabilities and Recent Advances. 2020,	1
		1 O
143	The Koopman Operator: Capabilities and Recent Advances. <b>2020</b> ,  Computationally Efficient Learning of Large Scale Dynamical Systems: A Koopman Theoretic	
143	The Koopman Operator: Capabilities and Recent Advances. 2020,  Computationally Efficient Learning of Large Scale Dynamical Systems: A Koopman Theoretic Approach. 2020,  Denoising and Bad Data Detection in Distribution Phasor Measurements using Filtering, Clustering	O
143 142 141	The Koopman Operator: Capabilities and Recent Advances. 2020,  Computationally Efficient Learning of Large Scale Dynamical Systems: A Koopman Theoretic Approach. 2020,  Denoising and Bad Data Detection in Distribution Phasor Measurements using Filtering, Clustering and Koopman Mode Analysis. 2021,  Approximate Diagonal Integral Representations and Eigenmeasures for Lipschitz Operators on	3
143 142 141 140	The Koopman Operator: Capabilities and Recent Advances. 2020,  Computationally Efficient Learning of Large Scale Dynamical Systems: A Koopman Theoretic Approach. 2020,  Denoising and Bad Data Detection in Distribution Phasor Measurements using Filtering, Clustering and Koopman Mode Analysis. 2021,  Approximate Diagonal Integral Representations and Eigenmeasures for Lipschitz Operators on Banach Spaces. 2022, 10, 220  Parsimony as the ultimate regularizer for physics-informed machine learning. Nonlinear Dynamics,	o 3 0
143 142 141 140	The Koopman Operator: Capabilities and Recent Advances. 2020,  Computationally Efficient Learning of Large Scale Dynamical Systems: A Koopman Theoretic Approach. 2020,  Denoising and Bad Data Detection in Distribution Phasor Measurements using Filtering, Clustering and Koopman Mode Analysis. 2021,  Approximate Diagonal Integral Representations and Eigenmeasures for Lipschitz Operators on Banach Spaces. 2022, 10, 220  Parsimony as the ultimate regularizer for physics-informed machine learning. Nonlinear Dynamics, 2022, 107, 1801  Data-driven identification of the spatiotemporal structure of turbulent flows by streaming dynamic	o 3 0

119

118

Initial state estimation from limited observations of the heat equation in metric graphs. 2022, 38, 035007 135 Principal component trajectories for modeling spectrally continuous dynamics as forced linear 134 systems.. 2022, 105, 015312 Application of higher order dynamic mode decomposition to modal analysis and prediction of 133 1 power systems with renewable sources of energy. 2022, 138, 107925 Real Power Modulation Strategies for Transient Stability Control. 2022, 1-1 132 A mode-in-state contribution factor based on Koopman operator and its application to power 131 system analysis. 2022, 13, 409-414 Network structure identification via Koopman analysis and sparse identification. 2022, 13, 477-492 130 Ensemble Forecasts in Reproducing Kernel Hilbert Space Manifold: Dynamical Systems in 129 Wonderland. 128 Analytical and Data-Driven Wave Approximations of an Extended Schr inger Equation. 2022, 14, 465 Correcting noisy dynamic mode decomposition with Kalman filters. 2022, 111175 1 127 126 Deep learning enhanced dynamic mode decomposition.. 2022, 32, 033116 Integrating Scientific Knowledge with Machine Learning for Engineering and Environmental 125 11 Systems. Eigenvalues of autocovariance matrix: A practical method to identify the Koopman 124 eigenfrequencies.. 2022, 105, 034205 Deep learning to decompose macromolecules into independent Markovian domains. 123 A parametric and feasibility study for data sampling of the dynamic mode decomposition: Spectral 122 insights and further explorations. 2022, 34, 035102 On Numerical Approximations of the Koopman Operator. 2022, 10, 1180 121  $\circ$ Identification of MIMO Wiener-type Koopman models for data-driven model reduction using deep 120 learning. 2022, 161, 107781

Generalized eigenvalue approach for dynamic mode decomposition. 2021, 11, 125011

Establishing direct phenomenological connections between fluid and structure by the

Koopman-Linearly Time-Invariant analysis. 2021, 33, 121707

O

117	Turbulence and Control of Wind Farms. <b>2022</b> , 5,	2
116	On the Equivalence of Contraction and Koopman Approaches for Nonlinear Stability and Control. <b>2021</b> ,	O
115	Time-Varying Koopman Operator Theory for Nonlinear Systems Prediction. 2021,	
114	Stability Analysis of Parameter Varying Genetic Toggle Switches Using Koopman Operators. <b>2021</b> , 9, 3133	1
113	Data-driven Distributed Learning of Multi-agent Systems: A Koopman Operator Approach. 2021,	0
112	Advances in System Identification: Theory and Applications. <b>2021</b> ,	
111	Challenges in dynamic mode decomposition <b>2021</b> , 18, 20210686	4
110	Controlling Nonlinear Dynamical Systems with Linear Quadratic Regulator-based Policy Networks in Koopman space. <b>2021</b> ,	O
109	Non-intrusive nonlinear model reduction via machine learning approximations to low-dimensional operators. <b>2021</b> , 8,	0
108	The Challenge of Small Data: Dynamic Mode Decomposition, Redux. <b>2021</b> ,	1
107	Numerical methods to evaluate Koopman matrix from system equations.	
106	Large eddy simulations and modal decomposition analysis of flow past a cylinder subject to flow-induced vibration. <b>2022</b> , 34, 045119	O
105	Ensemble-SINDy: Robust sparse model discovery in the low-data, high-noise limit, with active learning and control <b>2022</b> , 478, 20210904	2
104	tgEDMD: Approximation of the Kolmogorov Operator in Tensor Train Format. 2022, 32,	
103	Modern Koopman Theory for Dynamical Systems. <b>2022</b> , 64, 229-340	7
102	Discriminant Dynamic Mode Decomposition for Labeled Spatiotemporal Data Collections. <b>2022</b> , 21, 103	80-10581
101	Koopman analysis of nonlinear systems with a neural network representation.	
100	Embedding classical dynamics in a quantum computer. <b>2022</b> , 105,	1

99	GraphVAMPNet, using graph neural networks and variational approach to Markov processes for dynamical modeling of biomolecules <b>2022</b> , 156, 184103	2
98	Model Reduction on Approximate Inertial Manifolds for NS Equations through Multilevel Finite Element Method and Hierarchical Basis. <b>2022</b> , 249-270	
97	Extended dynamic mode decomposition for cyclic macroeconomic data. <b>2022</b> , 2, 117-146	
96	Model-Predictive Control Design for Power System Oscillation Damping via Excitation - A Data-Driven Approach. <b>2022</b> , 1-1	1
95	Learning transcriptome dynamics for discovery of optimal genetic reporters of novel compounds.	
94	Epileptic electroencephalography classification using Embedded Dynamic Mode Decomposition.	Ο
93	Dynamic mode decomposition with core sketch.	2
92	Improving Momentum Strategies using Adaptive Elastic Dynamic Mode Decomposition. 2021,	
91	Dynamic Mode Decomposition: A New Approach for Computing the DMD Modes and Eigenvalues. <b>2022</b> , 14, 5-16	Ο
90	Data-Driven Nonlinear Model Reduction Using Koopman Theory: Integrated Control Form and NMPC Case Study. <b>2022</b> , 6, 2978-2983	
89	Phase space partition with Koopman analysis. <b>2022</b> , 32, 063132	
88	Partitioning of Net Ecosystem Exchange Using Dynamic Mode Decomposition and Time Delay Embedding.	
87	Data-driven reduced order modeling for parametrized time-dependent flow problems.	2
86	A definition of the asymptotic phase for quantum nonlinear oscillators from the Koopman operator viewpoint. <b>2022</b> , 32, 063133	O
85	Generative Stochastic Modeling of Strongly Nonlinear Flows with Non-Gaussian Statistics. <b>2022</b> , 10, 555-583	
84	Dynamic mode decomposition for data-driven modeling of free surface sloshing.	
83	Dynamics Near the Three-Body Libration Points via Koopman Operator Theory. 1-15	2
82	A data-driven model-based shared control strategy considering drivers daptive behavior in driver-automation interaction. 095440702211048	1

81	Reduced Operator Inference for Nonlinear Partial Differential Equations. <b>2022</b> , 44, A1934-A1959	О
80	Systematic multi-scale decomposition of ocean variability using machine learning. <b>2022</b> , 32, 073122	
79	High-Fidelity Digital Twin Data Models by Randomized Dynamic Mode Decomposition and Deep Learning with Applications in Fluid Dynamics. <b>2022</b> , 3, 314-332	
78	Robust Approximation of the Stochastic Koopman Operator. <b>2022</b> , 21, 1930-1951	
77	Predictions of flow and temperature field in a T-junction based on dynamic mode decomposition and deep learning. <b>2022</b> , 125228	3
76	Implementation of a robust data-driven control approach for an ommi-directional mobile manipulator based on koopman operator. 002029402210948	
75	On some aspects of the response to stochastic and deterministic forcings.	1
74	Online Koopman Mode Decomposition for Power System Synchrophasor Data. <b>2022</b> , 55, 54-58	1
73	Koopman-Operator-Based Robust Data-Driven Control for Wheeled Mobile Robots. <b>2022</b> , 1-12	О
72	A NEW ALGORITHM FOR DYNAMIC MODE DECOMPOSITION. 2022,	O
71	Deep Koopman with Control: Spectral Analysis of Soft Robot Dynamics. 2022,	O
70	Decoupling bi-directional fluidEtructure interactions by the Koopman theory: Actualizing one-way subcases and the role of crosswind structure motion. <b>2022</b> , 34, 095103	O
69	Koopman-Operator-Based Attitude Dynamics and Control on SO(3). 2023, 177-210	0
68	Data-Driven Operator Theoretic Methods for Phase Space Learning and Analysis. <b>2022</b> , 32,	O
67	Distributed Data-Driven Control of Transportation Networks. <b>2022</b> , 55, 239-244	O
66	Temporal Forward-Backward Consistency, Not Residual Error, Measures the Prediction Accuracy of Extended Dynamic Mode Decomposition. <b>2022</b> , 1-1	O
65	Event Detection, Classification and Localization in an Active Distribution Grid using Data-Driven System Identification, Weighted Voting and Graph. <b>2022</b> , 1-1	O
64	Model predictive control for robust quantum state preparation. 6, 837	1

63	Extended dynamic mode decomposition for two paradigms of non-linear dynamical systems. 2022,	0
62	A Noise-robust Koopman Spectral Analysis of an Intermittent Dynamics Method for Complex Systems: A Case Study in Pathophysiological Processes of Obstructive Sleep Apnea. 1-22	O
61	A Matlab Toolbox for Extended Dynamic Mode Decomposition Based on Orthogonal Polynomials and p-q Quasi-Norm Order Reduction. <b>2022</b> , 10, 3859	0
60	Modified Uncertainty Error Aware Estimation Model for Tracking the Path of Unmanned Aerial Vehicles. <b>2022</b> , 12, 11313	1
59	Physics-constrained deep learning of nonlinear normal modes of spatio-temporal fluid flow dynamics.	0
58	Deep learning to decompose macromolecules into independent Markovian domains. 2022, 13,	1
57	Precision Data-enabled Koopman-type Inverse Operators for Linear Systems. <b>2022</b> , 55, 181-186	0
56	Data-driven reduced-order modeling for nonautonomous dynamical systems in multiscale media. <b>2023</b> , 474, 111799	O
55	Physics-informed regularization and structure preservation for learning stable reduced models from data with operator inference. <b>2023</b> , 404, 115836	1
54	Linearizing nonlinear dynamics using deep learning. <b>2023</b> , 170, 108104	O
53	A wavelet-based dynamic mode decomposition for modeling mechanical systems from partial observations. <b>2023</b> , 187, 109919	0
	A wavelet-based dynamic mode decomposition for modeling mechanical systems from partial	
53	A wavelet-based dynamic mode decomposition for modeling mechanical systems from partial observations. <b>2023</b> , 187, 109919  Control of Oscillatory Temperature Field in a Building via Damping Assignment to Nonlinear	0
53 52	A wavelet-based dynamic mode decomposition for modeling mechanical systems from partial observations. 2023, 187, 109919  Control of Oscillatory Temperature Field in a Building via Damping Assignment to Nonlinear Koopman Mode. 2022,	0
53 52 51	A wavelet-based dynamic mode decomposition for modeling mechanical systems from partial observations. 2023, 187, 109919  Control of Oscillatory Temperature Field in a Building via Damping Assignment to Nonlinear Koopman Mode. 2022,  Koopman operators and Extended dynamic mode decomposition for the inverted pendulum. 2022,  A Solution for Prediction and Tracking of Alzheimer Disease using Secure and Energy Efficient	0 0
53 52 51 50	A wavelet-based dynamic mode decomposition for modeling mechanical systems from partial observations. 2023, 187, 109919  Control of Oscillatory Temperature Field in a Building via Damping Assignment to Nonlinear Koopman Mode. 2022,  Koopman operators and Extended dynamic mode decomposition for the inverted pendulum. 2022,  A Solution for Prediction and Tracking of Alzheimer Disease using Secure and Energy Efficient Internet-of-Things. 2022,	0 0
53 52 51 50 49	A wavelet-based dynamic mode decomposition for modeling mechanical systems from partial observations. 2023, 187, 109919  Control of Oscillatory Temperature Field in a Building via Damping Assignment to Nonlinear Koopman Mode. 2022,  Koopman operators and Extended dynamic mode decomposition for the inverted pendulum. 2022,  A Solution for Prediction and Tracking of Alzheimer Disease using Secure and Energy Efficient Internet-of-Things. 2022,  Finite-Data Error Bounds for Koopman-Based Prediction and Control. 2023, 33,  Hybrid Scheme of Kinematic Analysis and Lagrangian Koopman Operator Analysis for Short-Term	<ul><li>0</li><li>0</li><li>0</li><li>0</li><li>0</li></ul>

45	A quantitative analysis of Koopman operator methods for system identification and predictions. <b>2023</b> , 351, 1-31	O
44	Symmetry-reduced dynamic mode decomposition of near-wall turbulence. <b>2023</b> , 954,	2
43	On Alternative Algorithms for Computing Dynamic Mode Decomposition. <b>2022</b> , 10, 210	O
42	Koopman Linear Quadratic Regulator Using Complex Eigenfunctions for Nonlinear Dynamical Systems. <b>2022</b> , 21, 2463-2486	O
41	The spatiotemporal coupling in delay-coordinates dynamic mode decomposition. 2022, 32, 123127	O
40	Parametric Dynamic Mode Decomposition for Reduced Order Modeling. 2022, 111852	O
39	Data-driven model discovery for plasma turbulence modelling. 2022, 88,	1
38	Gaussian Process Koopman Mode Decomposition. <b>2022</b> , 35, 82-103	O
37	Data-driven global stability of vertical planar liquid jets by dynamic mode decomposition on random perturbations. <b>2022</b> , 34, 122101	O
36	Residual dynamic mode decomposition: robust and verified Koopmanism. 2023, 955,	1
35	Koopman analysis by the dynamic mode decomposition in wind engineering. 2023, 232, 105295	0
34	Slicing and Dicing: Optimal Coarse-Grained Representation to Preserve Molecular Kinetics.	1
33	Chasing collective variables using temporal data-driven strategies. 1-21	O
32	Data-driven spectral analysis of quantum spin networks with limited access using Hankel dynamic mode decomposition. <b>2022</b> ,	O
31	A Sampling Theorem for Exact Identification of Continuous-time Nonlinear Dynamical Systems. <b>2022</b> ,	O
30	A Tutorial on Pontryagin-Koopman Operators for Infinite Horizon Optimal Control. 2022,	O
29	Algorithmic (Semi-)Conjugacy via Koopman Operator Theory. 2022,	О
28	Noncausal Lifting Linearization for Nonlinear Dynamic Systems Under Model Predictive Control. <b>2022</b> ,	O

27	Learning Nonlinear Model Predictive Controllers and Virtual Sensors with Koopman Operators. <b>2022</b> , 55, 199-204	О
26	Global Reconstruction of Hypersonic Boundary Layer Disturbance Modes. 2023,	O
25	Parametric non-intrusive reduced-order models via operator inference for large-scale rotating detonation engine simulations. <b>2023</b> ,	О
24	Global Mode Reconstruction using Phase-Consistent SPOD. 2023,	O
23	Recurrent-Neural Network Prediction of Lift on an Oscillating Plate. 2023,	О
22	A transfer operator approach to relativistic quantum wavefunction.	Ο
21	Study of the Hypergeometric Equation via Data Driven Koopman-EDMD Theory. <b>2023</b> , 12, 134	0
20	DeepWEST: Deep Learning of Kinetic Models with the Weighted Ensemble Simulation Toolkit for Enhanced Sampling.	O
19	An Adaptive Basis Technique Applied to Mode Extraction of Non-Stationary Low Frequency Oscillations. <b>2022</b> ,	0
18	Generalizing dynamic mode decomposition: Balancing accuracy and expressiveness in Koopman approximations. <b>2023</b> , 153, 111001	О
17	Quantum computing for fusion energy science applications. <b>2023</b> , 30, 010501	1
16	Sorting-free Hill-based stability analysis of periodic solutions through Koopman analysis. <b>2023</b> , 111, 8439-84	<b>66</b> 0
15	Evaluation of the Regions of Attraction of Higher-Dimensional Hyperbolic Systems Using Extended Dynamic Mode Decomposition. <b>2023</b> , 4, 57-77	О
14	An Optimized Dynamic Mode Decomposition Model Robust to Multiplicative Noise. <b>2023</b> , 22, 235-268	O
13	Learning effective stochastic differential equations from microscopic simulations: Linking stochastic numerics to deep learning. <b>2023</b> , 33, 023121	О
12	Maximally predictive states: From partial observations to long timescales. <b>2023</b> , 33, 023136	O
11	Selecting High-Dimensional Representations of Physical Systems by Reweighted Diffusion Maps. <b>2023</b> , 14, 2778-2783	0
10	Towards reliable data-based optimal and predictive control using extended DMD. <b>2023</b> , 56, 169-174	Ο

9	The linear-time-invariance notion of the Koopman analysis. Part 2. Dynamic Koopman modes, physics interpretations and phenomenological analysis of the prism wake. <b>2023</b> , 959,	O
8	Controlling complex networks with complex nodes. <b>2023</b> , 5, 250-262	O
7	A purely data-driven framework for prediction, optimization, and control of networked processes. <b>2023</b> ,	0
6	Revealing the Statistics of Extreme Events Hidden in Short Weather Forecast Data. <b>2023</b> , 4,	O
5	Koopman analysis of the periodic Kortewegde Vries equation. <b>2023</b> , 33, 043102	0
4	Data-Driven Approach for Modeling Coagulation Kinetics. <b>2022</b> , 33, 310-318	O
3	Extending the Extended Dynamic Mode Decomposition with Latent Observables : The Latent EDMD framework.	О
2	A Dynamic Mode Decomposition Based Reduced-Order Model For Parameterized Time-Dependent Partial Differential Equations. <b>2023</b> , 95,	O
1	Heterogeneous robot teams for modeling and prediction of multiscale environmental processes.	0