Igor Mezic

List of Publications by Year
in descending order

173 papers	12,681 citations	66343 42 h-index	24982 109 g-index
174 all docs	174 docs citations	174 times ranked	8188 citing authors

#	Article	IF	Citations
1	Chaotic Mixer for Microchannels. Science, 2002, 295, 647-651.	12.6	2,963
2	Spectral analysis of nonlinear flows. Journal of Fluid Mechanics, 2009, 641, 115-127.	3.4	1,592
3	Spectral Properties of Dynamical Systems, Model Reduction and Decompositions. Nonlinear Dynamics, 2005, 41, 309-325.	5.2	785
4	Analysis of Fluid Flows via Spectral Properties of the Koopman Operator. Annual Review of Fluid Mechanics, 2013, 45, 357-378.	25.0	637
5	Linear predictors for nonlinear dynamical systems: Koopman operator meets model predictive control. Automatica, 2018, 93, 149-160.	5.0	498
6	Applied Koopmanism. Chaos, 2012, 22, 047510.	2.5	463
7	Ergodic Theory, Dynamic Mode Decomposition, and Computation of Spectral Properties of the Koopman Operator. SIAM Journal on Applied Dynamical Systems, 2017, 16, 2096-2126.	1.6	276
8	Comparison of systems with complex behavior. Physica D: Nonlinear Phenomena, 2004, 197, 101-133.	2.8	272
9	A methodology for meta-model based optimization in building energy models. Energy and Buildings, 2012, 47, 292-301.	6.7	212
10	On Convergence of Extended Dynamic Mode Decomposition to the Koopman Operator. Journal of Nonlinear Science, 2018, 28, 687-710.	2.1	196
11	Dynamical analysis and control of microcantilevers. Automatica, 1999, 35, 1663-1670.	5.0	176
12	Global Stability Analysis Using the Eigenfunctions of the Koopman Operator. IEEE Transactions on Automatic Control, 2016, 61, 3356-3369.	5.7	175
13	A New Mixing Diagnostic and Gulf Oil Spill Movement. Science, 2010, 330, 486-489.	12.6	156
14	Nonlinear Koopman Modes and Coherency Identification of Coupled Swing Dynamics. IEEE Transactions on Power Systems, 2011, 26, 1894-1904.	6.5	156
15	Dynamic autoinoculation and the microbial ecology of a deep water hydrocarbon irruption. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20286-20291.	7.1	156
16	A multiscale measure for mixing. Physica D: Nonlinear Phenomena, 2005, 211, 23-46.	2.8	150
17	Frontiers of chaotic advection. Reviews of Modern Physics, 2017, 89, .	45.6	146
18	Linearization in the large of nonlinear systems and Koopman operator spectrum. Physica D: Nonlinear Phenomena, 2013, 242, 42-53.	2.8	127

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19	Uncertainty and sensitivity decomposition of building energy models. Journal of Building Performance Simulation, 2012, 5, 171-184.	2.0	125
20	A method for visualization of invariant sets of dynamical systems based on the ergodic partition. Chaos, 1999, 9, 213-218.	2.5	116
21	Melnikov-Based Dynamical Analysis of Microcantilevers in Scanning Probe Microscopy. Nonlinear Dynamics, 1999, 20, 197-220.	5.2	115
22	Uniform resonant chaotic mixing in fluid flows. Nature, 2003, 425, 376-380.	27.8	113
23	Agent-Based Modeling of Drinking Behavior: A Preliminary Model and Potential Applications to Theory and Practice. American Journal of Public Health, 2006, 96, 2055-2060.	2.7	109
24	Metrics for ergodicity and design of ergodic dynamics for multi-agent systems. Physica D: Nonlinear Phenomena, 2011, 240, 432-442.	2.8	106
25	Nonlinear Koopman Modes and Power System Stability Assessment Without Models. IEEE Transactions on Power Systems, 2014, 29, 899-907.	6.5	100
26	Mixing in the shear superposition micromixer: three-dimensional analysis. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 1001-1018.	3.4	91
27	Optimal control of mixing in Stokes fluid flows. Journal of Fluid Mechanics, 2007, 580, 261-281.	3.4	90
28	Geometry of the ergodic quotient reveals coherent structures in flows. Physica D: Nonlinear Phenomena, 2012, 241, 1255-1269.	2.8	84
29	Spillover Stabilization in Finite-Dimensional Control and Observer Design for Dissipative Evolution Equations. SIAM Journal on Control and Optimization, 2003, 42, 746-768.	2.1	78
30	Coherent Swing Instability of Power Grids. Journal of Nonlinear Science, 2011, 21, 403-439.	2.1	77
31	On learning Hamiltonian systems from data. Chaos, 2019, 29, 121107.	2.5	73
32	Spectrum of the Koopman Operator, Spectral Expansions in Functional Spaces, and State-Space Geometry. Journal of Nonlinear Science, 2020, 30, 2091-2145.	2.1	73
33	Optimal Construction of Koopman Eigenfunctions for Prediction and Control. IEEE Transactions on Automatic Control, 2020, 65, 5114-5129.	5.7	69
34	Correspondence between Koopman mode decomposition, resolvent mode decomposition, and invariant solutions of the Navier-Stokes equations. Physical Review Fluids, 2016, 1, .	2.5	66
35	Data-driven spectral analysis of the Koopman operator. Applied and Computational Harmonic Analysis, 2020, 48, 599-629.	2.2	63
36	Nonlinear Koopman Modes and a Precursor to Power System Swing Instabilities. IEEE Transactions on Power Systems, 2012, 27, 1182-1191.	6.5	60

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37	Applied Koopman operator theory for power systems technology. Nonlinear Theory and Its Applications IEICE, 2016, 7, 430-459.	0.6	60
38	Study of dynamics in post-transient flows using Koopman mode decomposition. Physical Review Fluids, 2017, 2, .	2.5	59
39	A Data-Driven Koopman Model Predictive Control Framework for Nonlinear Partial Differential Equations. , 2018, , .		56
40	Ergodic theory and visualization. I. Mesochronic plots for visualization of ergodic partition and invariant sets. Chaos, 2010, 20, 033114.	2.5	54
41	Building energy modeling: A systematic approach to zoning and model reduction using Koopman Mode Analysis. Energy and Buildings, 2015, 86, 794-802.	6.7	54
42	A prony approximation of Koopman Mode Decomposition. , 2015, , .		47
43	Power grid transient stabilization using Koopman model predictive control. IFAC-PapersOnLine, 2018, 51, 297-302.	0.9	46
44	An ultrashort mixing length micromixer: The shear superposition micromixer. Lab on A Chip, 2007, 7, 396-398.	6.0	45
45	Patchiness: A New Diagnostic for Lagrangian Trajectory Analysis in Time-Dependent Fluid Flows. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 1053-1093.	1.7	43
46	Optimal mixing in recirculation zones. Physics of Fluids, 2004, 16, 867-888.	4.0	41
47	Break-up of invariant surfaces in action–angle–angle maps and flows. Physica D: Nonlinear Phenomena, 2001, 154, 51-67.	2.8	38
48	Data fusion via intrinsic dynamic variables: An application of data-driven Koopman spectral analysis. Europhysics Letters, 2015, 109, 40007.	2.0	38
49	Global sensitivity/uncertainty analysis for agent-based models. Reliability Engineering and System Safety, 2013, 118, 8-17.	8.9	35
50	Ergodicity-Based Cooperative Multiagent Area Coverage via a Potential Field. IEEE Transactions on Cybernetics, 2017, 47, 1983-1993.	9.5	35
51	On the dynamics of molecular conformation. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 7542-7547.	7.1	34
52	Data Driven Modal Decompositions: Analysis and Enhancements. SIAM Journal of Scientific Computing, 2018, 40, A2253-A2285.	2.8	34
53	Nonlinear Dynamics of Crime and Violence in Urban Settings. Jasss, 2012, 15, .	1.8	34
54	Uncertainty propagation in dynamical systems. Automatica, 2008, 44, 3003-3013.	5.0	33

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55	A spectral operator-theoretic framework for global stability. , 2013, , .		32
56	Minimum time heading control of underpowered vehicles in time-varying ocean currents. Ocean Engineering, 2013, 66, 12-31.	4.3	30
57	Implications of Systems Dynamic Models and Control Theory for Environmental Approaches to the Prevention of Alcohol- and Other Drug Use-Related Problems. Substance Use and Misuse, 2004, 39, 1713-1750.	1.4	29
58	Control of Particles in Microelectrode Devices. Physical Review Letters, 2005, 95, 236002.	7.8	29
59	Extended Dynamic Mode Decomposition with Learned Koopman Eigenfunctions for Prediction and Control. , 2020, , .		29
60	Chaotic advection in bounded Navierâ€"Stokes flows. Journal of Fluid Mechanics, 2001, 431, 347-370.	3.4	28
61	Spectral Multiscale Coverage: A uniform coverage algorithm for mobile sensor networks. , 2009, , .		28
62	Koopman Operator Spectrum for Random Dynamical Systems. Journal of Nonlinear Science, 2020, 30, 2007-2056.	2.1	28
63	A Backstepping Controller for a Nonlinear Partial Differential Equation Model of Compression System Instabilities. SIAM Journal on Control and Optimization, 1999, 37, 1503-1537.	2.1	27
64	Minimum time feedback control of autonomous underwater vehicles. , 2010, , .		24
65	Ergodic theory and experimental visualization of invariant sets in chaotically advected flows. Physics of Fluids, 2002, 14, 2235.	4.0	23
66	Coupled oscillator models with no scale separation. Physica D: Nonlinear Phenomena, 2009, 238, 490-501.	2.8	23
67	On the dynamical origin of asymptotic t2 dispersion of a nondiffusive tracer in incompressible laminar flows. Physics of Fluids, 1994, 6, 2227-2229.	4.0	22
68	Maximal Effective Diffusivity for Time-Periodic Incompressible Fluid Flows. SIAM Journal on Applied Mathematics, 1996, 56, 40-56.	1.8	22
69	Multiscale Adaptive Search. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 1076-1087.	5.0	22
70	Transverse momentum micromixer optimization with evolution strategies. Computers and Fluids, 2004, 33, 521-531.	2.5	21
71	Capturing deviation from ergodicity at different scales. Physica D: Nonlinear Phenomena, 2009, 238, 1668-1679.	2.8	21
72	Numerical Simulation of an Electroosmotic Micromixer. , 2003, , 653.		20

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73	The Redistribution of Power: Neurocardiac Signaling, Alcohol and Gender. PLoS ONE, 2011, 6, e28281.	2.5	20
74	Global Isochrons and Phase Sensitivity of Bursting Neurons. SIAM Journal on Applied Dynamical Systems, 2014, 13, 306-338.	1.6	20
75	The Translational Value of Psychophysiology Methods and Mechanisms: Multilevel, Dynamic, Personalized. Journal of Studies on Alcohol and Drugs, 2018, 79, 229-238.	1.0	20
76	On applications of the spectral theory of the Koopman operator in dynamical systems and control theory. , 2015, , .		19
77	Capture into Resonance: A Method for Efficient Control. Physical Review Letters, 2004, 93, 084301.	7.8	18
78	Residence-time distributions for chaotic flows in pipes. Chaos, 1999, 9, 173-182.	2.5	17
79	A computational physiology approach to personalized treatment models: the beneficial effects of slow breathing on the human cardiovascular system. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H1073-H1091.	3.2	17
80	Reduced-order models for flow control: balanced models and Koopman modes. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2010, , 43-50.	0.2	17
81	Regular and chaotic particle motion near a helical vortex filament. Physica D: Nonlinear Phenomena, 1998, 111, 179-201.	2.8	16
82	Global swing instability of multimachine power systems. , 2008, , .		16
83	Koopman Operator Family Spectrum for Nonautonomous Systems. SIAM Journal on Applied Dynamical Systems, 2018, 17, 2478-2515.	1.6	16
84	Weak finite-time Melnikov theory and 3D viscous perturbations of Euler flows. Physica D: Nonlinear Phenomena, 2003, 176, 82-106.	2.8	15
85	Uniform coverage control of mobile sensor networks for dynamic target detection. , 2010, , .		14
86	Hybrid dynamics of two coupled oscillators that can impact a fixed stop. International Journal of Non-Linear Mechanics, 2003, 38, 677-689.	2.6	13
87	Controllability for a class of area-preserving twist maps. Physica D: Nonlinear Phenomena, 2004, 189, 234-246.	2.8	13
88	Targeted activation in deterministic and stochastic systems. Physical Review E, 2010, 81, 026603.	2.1	13
89	Scalable approach to uncertainty quantification and robust design of interconnected dynamical systems. Annual Reviews in Control, 2011, 35, 77-98.	7.9	13
90	Model reduction for agent-based social simulation: Coarse-graining a civil violence model. Physical Review E, 2012, 85, 066106.	2.1	13

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91	Koopman Mode Decomposition for Periodic/Quasi-periodic Time Dependence**The funding provided by UTRC is greatly appreciated.. IFAC-PapersOnLine, 2016, 49, 690-697.	0.9	13
92	Quasi-periodic intermittency in oscillating cylinder flow. Journal of Fluid Mechanics, 2017, 828, 680-707.	3.4	13
93	On the Approximation of Koopman Spectra for Measure Preserving Transformations. SIAM Journal on Applied Dynamical Systems, 2019, 18, 1454-1497.	1.6	13
94	Control of a vortex pair using a weak external flow. Journal of Turbulence, 2002, 3, N51.	1.4	12
95	Optimal control of a co-rotating vortex pair: averaging and impulsive control. Physica D: Nonlinear Phenomena, 2004, 192, 63-82.	2.8	12
96	Spectral analysis of the Koopman operator for partial differential equations. Chaos, 2020, 30, 113131.	2.5	12
97	New pathway for self-assembly and emergent properties. Nano Today, 2009, 4, 116-124.	11.9	11
98	Passive Control of Limit Cycle Oscillations in a Thermoacoustic System Using Asymmetry. Journal of Applied Mechanics, Transactions ASME, 2008, 75, .	2.2	10
99	On Koopman and dynamic mode decompositions for application to dynamic data with low spatial dimension. , 2016, , .		10
100	Search strategy in a complex and dynamic environment: the MH370 case. Scientific Reports, 2020, 10, 19640.	3.3	10
101	On Numerical Approximations of the Koopman Operator. Mathematics, 2022, 10, 1180.	2.2	10
102	Non-equilibrium statistical mechanics for a vortex gas. Journal of Turbulence, 2002, 3, N52.	1.4	9
103	A mechanism for energy transfer leading to conformation change in networked nonlinear systems. , 2007, , .		9
104	Global swing instability in the New England power grid model. , 2009, , .		9
105	Nonlinear Koopman modes of coupled swing dynamics and coherency identification. , 2010, , .		9
106	Ergodic theory and visualization. II. Fourier mesochronic plots visualize (quasi)periodic sets. Chaos, 2015, 25, 053105.	2.5	9
107	Spectral Complexity of Directed Graphs and Application to Structural Decomposition. Complexity, 2019, 2019, 1-18.	1.6	9
108	Exponentially decaying modes and long-term prediction of sea ice concentration using Koopman mode decomposition. Scientific Reports, 2020, 10, 16313.	3.3	9

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109	Ergodic partition of phase space in continuous dynamical systems. , 2009, , .		8
110	Existence of invariant tori in three dimensional maps with degeneracy. Physica D: Nonlinear Phenomena, 2012, 241, 1136-1145.	2.8	8
111	Data Driven Koopman Spectral Analysis in Vandermonde--Cauchy Form via the DFT: Numerical Method and Theoretical Insights. SIAM Journal of Scientific Computing, 2019, 41, A3118-A3151.	2.8	8
112	Convex Computation of Extremal Invariant Measures of Nonlinear Dynamical Systems and Markov Processes. Journal of Nonlinear Science, 2021, 31, 1.	2.1	8
113	Introduction to the Koopman Operator in Dynamical Systems and Control Theory. Lecture Notes in Control and Information Sciences, 2020, , 3-33.	1.0	8
114	An operator-theoretic viewpoint to non-smooth dynamical systems: Koopman analysis of a hybrid pendulum. , 2016, , .		7
115	An agent-based model of urban insurgence: Effect of gathering sites and Koopman mode analysis. PLoS ONE, 2018, 13, e0205259.	2.5	7
116	Electrokinetic Mixing for Improving the Kinetics of an HbA1c Immunoassay. Scientific Reports, 2019, 9, 19885.	3.3	7
117	FKG inequalities in cellular automata and coupled map lattices. Physica D: Nonlinear Phenomena, 1997, 103, 491-504.	2.8	6
118	Statistical properties of controlled fluid flows with applications to control of mixing. Systems and Control Letters, 2002, 45, 249-256.	2.3	6
119	Coherent Swing Instability of Interconnected Power Grids and a Mechanism of Cascading Failure. , 2012, , 185-202.		6
120	On Comparison of Dynamics of Dissipative and Finite-Time Systems Using Koopman Operator Methods**The funding provided by ARO Grant W911NF-11-1-0511.. IFAC-PapersOnLine, 2016, 49, 454-461.	0.9	6
121	Multiscale modeling of in-room temperature distribution with human occupancy data: a practical case study. Journal of Building Performance Simulation, 2018, 11, 145-163.	2.0	6
122	Koopman mode analysis on thermal data for building energy assessment. Advances in Building Energy Research, 2022, 16, 281-295.	2.3	6
123	Unsteady dynamics in the streamwise-oscillating cylinder wake for forcing frequencies below lock-on. Physical Review Fluids, 2021, 6, .	2.5	6
124	Koopman Model Predictive Control of Nonlinear Dynamical Systems. Lecture Notes in Control and Information Sciences, 2020, , 235-255.	1.0	6
125	Mesochronic classification of trajectories in incompressible 3D vector fields over finite times. Discrete and Continuous Dynamical Systems - Series S, 2016, 9, 923-958.	1.1	6
126	An extension of Prandtlâ€"Batchelor theory and consequences for chaotic advection. Physics of Fluids, 2002, 14, L61-L64.	4.0	5

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127	Actuation requirements in high dimensional oscillator systems. , 2008, , .		5
128	On the architecture of cell regulation networks. BMC Systems Biology, 2011, 5, 37.	3.0	5
129	Small-world networks and synchronisation in an agent-based model of civil violence. Global Crime, 2019, 20, 161-195.	1.3	5
130	Controllability, integrability and ergodicity. , 2003, , 213-229.		4
131	An approximate parametrization of the ergodic partition using time averaged observables. , 2009, , .		4
132	Coherent Swing Instability of power systems and cascading failures. , 2010, , .		4
133	Correction to â€œNonlinear Koopman Modes and Coherency Identification of Coupled Swing Dynamicsâ€• [Nov 11 1894-1904]. IEEE Transactions on Power Systems, 2011, 26, 2584-2584.	6.5	4
134	Koopman Mode Analysis of agent-based models of logistics processes. PLoS ONE, 2019, 14, e0222023.	2.5	4
135	Electrokinetic mixing in electrode-embedded multiwell plates to improve the diffusion limited kinetics of biosensing platforms. Analytica Chimica Acta, 2020, 1106, 79-87.	5.4	4
136	Vortex-based Control Algorithms. Lecture Notes in Control and Information Sciences, 2006, , 189-212.	1.0	4
137	Koopman Resolvent: A Laplace-Domain Analysis of Nonlinear Autonomous Dynamical Systems. SIAM Journal on Applied Dynamical Systems, 2021, 20, 2013-2036.	1.6	4
138	Extracting Dynamic Information From Whole-Building Energy Models. , 2012, , .		4
139	Implications of systems dynamic models and control theory for environmental approaches to the prevention of alcohol- and other drug use-related problems. , 2004, 39, 1713-50.		4
140	Nonergodicity, accelerator modes, and asymptotic quadratic-in-time diffusion in a class of volume-preserving maps. Physical Review E, 1995, 52, 3215-3217.	2.1	3
141	Uncertainty in the energy dynamics of commercial office buildings. , 2012, , .		3
142	Performance Study of an Adaptive Controller in the Presence of Uncertainty. IEEE Transactions on Control Systems Technology, 2013, 21, 1039-1043.	5.2	3
143	Pattern recognition and classification of HVAC rule-based faults in commercial buildings. , 2016, , .		3
144	Identification of Nonlinear Systems Using the Infinitesimal Generator of the Koopman Semigroupâ€"A Numerical Implementation of the Mauroyâ€"Goncalves Method. Mathematics, 2021, 9, 2075.	2.2	3

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145	Predicting the Critical Number of Layers for Hierarchical Support Vector Regression. Entropy, 2021, 23, 37.	2.2	3
146	Spatial filter averaging approach of probabilistic method to linear second-order partial differential equations of the parabolic type. Journal of Computational Physics, 2013, 233, 175-191.	3.8	2
147	Uniformization, organization, association and use of metadata from multiple content providers and manufacturers: A close look at the Building Automation System (BAS) sector. , 2016, , .		2
148	Prandtlâ€"Batchelor theorem for flows with quasiperiodic time dependence. Journal of Fluid Mechanics, 2019, 862, .	3.4	2
149	Control-Oriented, Data-Driven Models of Thermal Dynamics. Energies, 2021, 14, 1453.	3.1	2
150	Titanium Bulk Micromachining for BioMEMS Applications: A DEP Device as a Demonstration. , 2004, , .		2
151	Koopman Framework for Global Stability Analysis. Lecture Notes in Control and Information Sciences, 2020, , 35-58.	1.0	2
152	MEZIC ET AL. RESPOND. American Journal of Public Health, 2007, 97, 781-782.	2.7	1
153	Lectures on Mixing and Dynamical Systems. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2009, , 35-108.	0.6	1
154	Efficient Guidance in finite time flow fields. , 2013, , .		1
155	Searching for Targets of Nonuniform Size Using Mixing Transformations: Constructive Upper Bounds and Limit Laws. Journal of Nonlinear Science, 2015, 25, 741-777.	2.1	1
156	On the Approximation of Koopman Spectra of Measure-Preserving Flows. SIAM Journal on Applied Dynamical Systems, 2021, 20, 232-261.	1.6	1
157	On Least Squares Problems with Certain Vandermonde--Khatri--Rao Structure with Applications to DMD. SIAM Journal of Scientific Computing, 2020, 42, A3250-A3284.	2.8	1
158	Koopman Spectrum and Stability of Cascaded Dynamical Systems. Lecture Notes in Control and Information Sciences, 2020, , 99-129.	1.0	1
159	Application of Koopman-Based Control in Ultrahigh-Precision Positioning. Lecture Notes in Control and Information Sciences, 2020, , 451-479.	1.0	1
160	Invariant Sets in Quasiperiodically Forced Dynamical Systems. SIAM Journal on Applied Dynamical Systems, 2020, 19, 329-351.	1.6	1
161	High Efficiency Mixing in the Shear Superposition Micromixer. , 2004, , 499.		0
162	Controlled Separation and Trapping of Particles Using Two-frequency DEP. , 2005, , 543.		0

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163	Electrokinetic Mixing in Microplates and its Applications to Kinase and ELISA-Assay Type Reactions. , 2009, , .		0
164	The use of ergodic theory in designing dynamics for search problems. , 2010, , .		0
165	Analysis of Fluid Motion in Dynamic Stall and Forced Cylinder Flow Using Koopman Operator Methods. , 2014, , .		0
166	Nonlinear Koopman modes and power system stability assessment without models. , 2014, , .		0
167	Nonlinear instability of a network of fixed-speed induction generators. , 2014, , .		0
168	A Unified Definition of Collective Instabilities in Coupled Generator Networks**During part of the work on this proceeding, Y.S. was at Department of Mechanical Engineering, University of California, Santa Barbara, supported by JSPS Postdoctoral Fellowships for Research Abroad.. IFAC-PapersOnLine, 2015, 48, 89-94.	0.9	0
169	Mini-Workshop: Applied Koopmanism. Oberwolfach Reports, 2016, 13, 297-340.	0.0	0
170	Programmable Potentials: Approximate N-body potentials from coarse-level logic. Scientific Reports, 2016, 6, 33415.	3.3	0
171	Capture into resonance: A novel method of efficient control. , 2003, , .		0
172	Joint Use of Traveling Wave Dielectrophoresis and AC-Electroosmosis for Particle Manipulation. , 2009, , .		0
173	AC Electrokinetic Stirring and Focusing of Nanoparticles. , 2006, , 243-255.		0