

Dohyun Kim

List of Publications by Year in descending order

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27
papers

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1307594

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27
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45
citing authors

#	ARTICLE	IF	CITATIONS
1	Aggregation and disaggregation of active particles on the unit sphere with time-dependent frequencies. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2022, 27, 2247.	0.9	1
2	Emergent behaviors of high-dimensional Kuramoto models on Stiefel manifolds. <i>Automatica</i> , 2022, 136, 110072.	5.0	7
3	Complete solvability of the inertial spin model with an averaged spin. <i>Quarterly of Applied Mathematics</i> , 2022, 80, 53-67.	0.7	0
4	Stochastic consensus dynamics for nonconvex optimization on the Stiefel manifold: Mean-field limit and convergence. <i>Mathematical Models and Methods in Applied Sciences</i> , 2022, 32, 533-617.	3.3	7
5	On the emergent behavior of the swarming models on the complex sphere. <i>Studies in Applied Mathematics</i> , 2022, 148, 1303-1338.	2.4	0
6	Existence and Emergent Dynamics of Quadratically Separable States to the Lohe Tensor Model. <i>SIAM Journal on Applied Dynamical Systems</i> , 2022, 21, 1166-1208.	1.6	1
7	On the complete aggregation of the Wigner-Lohe model for identical potentials. <i>Networks and Heterogeneous Media</i> , 2022, .	1.1	0
8	Asymptotic behavior of gradient flows on the unit sphere with various potentials. <i>Journal of Differential Equations</i> , 2021, 270, 47-93.	2.2	5
9	Synchronization Conditions of a Mixed Kuramoto Ensemble in Attractive and Repulsive Couplings. <i>Journal of Nonlinear Science</i> , 2021, 31, 1.	2.1	3
10	On the Completely Separable State for the Lohe Tensor Model. <i>Journal of Statistical Physics</i> , 2021, 183, 1.	1.2	5
11	Cluster Synchrony of High-Dimensional Kuramoto Models with Higher-Order Couplings. <i>SIAM Journal on Control and Optimization</i> , 2021, 59, 4110-4135.	2.1	1
12	Emergent behaviors of a first-order particle swarm model on the hyperboloid. <i>Journal of Mathematical Physics</i> , 2020, 61, 042701.	1.1	5
13	Stochastic Lohe Matrix Model on the Lie Group and Mean-Field Limit. <i>Journal of Statistical Physics</i> , 2020, 178, 1467-1514.	1.2	3
14	Emergent dynamics of the Lohe matrix ensemble on a network under time-delayed interactions. <i>Journal of Mathematical Physics</i> , 2020, 61, 012702.	1.1	3
15	State-Dependent Dynamics of the Lohe Matrix Ensemble on the Unitary Group under the Gradient Flow. <i>SIAM Journal on Applied Dynamical Systems</i> , 2020, 19, 1080-1123.	1.6	3
16	A Stochastic Consensus Method for Nonconvex Optimization on the Stiefel Manifold. , 2020, , .		8
17	Emergence of Bicluster Aggregation for the Swarm Sphere Model with Attractive-Repulsive Couplings. <i>SIAM Journal on Applied Dynamical Systems</i> , 2020, 19, 1225-1270.	1.6	9
18	Collective synchronization of the multi-component Grossâ€“Pitaevskiiâ€“Lohe system. <i>Physica D: Nonlinear Phenomena</i> , 2019, 400, 132158.	2.8	6

#	ARTICLE	IF	CITATIONS
19	Emergence of synchronous behaviors for the Schrödinger-Lohe model with frustration. <i>Nonlinearity</i> , 2019, 32, 4609-4637.	1.4	2
20	Uniform-in-time transition from discrete to continuous dynamics in the Kuramoto synchronization. <i>Journal of Mathematical Physics</i> , 2019, 60, 051508.	1.1	5
21	Emergent Behavior of a Second-Order Lohe Matrix Model on the Unitary Group. <i>Journal of Statistical Physics</i> , 2019, 175, 904-931.	1.2	17
22	Particle and Kinetic Models for Swarming Particles on a Sphere and Stability Properties. <i>Journal of Statistical Physics</i> , 2019, 174, 622-655.	1.2	24
23	A Second-Order Particle Swarm Model on a Sphere and Emergent Dynamics. <i>SIAM Journal on Applied Dynamical Systems</i> , 2019, 18, 80-116.	1.6	21
24	Flocking Dynamics of the Inertial Spin Model with a Multiplicative Communication Weight. <i>Journal of Nonlinear Science</i> , 2019, 29, 1301-1342.	2.1	7
25	Asymptotic behavior and stability for the Schrödinger-Lohe model. <i>Journal of Mathematical Physics</i> , 2018, 59, .	1.1	11
26	Emergent behaviors of the Schrödinger-Lohe model on cooperative-competitive networks. <i>Journal of Differential Equations</i> , 2017, 263, 8295-8321.	2.2	7
27	The Wigner-Lohe model for quantum synchronization and its emergent dynamics. <i>Networks and Heterogeneous Media</i> , 2017, 12, 403-416.	1.1	7