Dohyun Kim

List of Publications by Year
in descending order

27 papers	168 citations	1307594 7 h-index	1281871 11 g-index
27 all docs	27 docs citations	27 times ranked	45 citing authors

#	Article	IF	Citations
1	Particle and Kinetic Models for Swarming Particles on a Sphere and Stability Properties. Journal of Statistical Physics, 2019, 174, 622-655.	1.2	24
2	A Second-Order Particle Swarm Model on a Sphere and Emergent Dynamics. SIAM Journal on Applied Dynamical Systems, 2019, 18, 80-116.	1.6	21
3	Emergent Behavior of a Second-Order Lohe Matrix Model on the Unitary Group. Journal of Statistical Physics, 2019, 175, 904-931.	1.2	17
4	Asymptotic behavior and stability for the Schrödinger-Lohe model. Journal of Mathematical Physics, 2018, 59, .	1.1	11
5	Emergence of Bicluster Aggregation for the Swarm Sphere Model with Attractive-Repulsive Couplings. SIAM Journal on Applied Dynamical Systems, 2020, 19, 1225-1270.	1.6	9
6	A Stochastic Consensus Method for Nonconvex Optimization on the Stiefel Manifold. , 2020, , .		8
7	Emergent behaviors of the Schrödinger–Lohe model on cooperative-competitive networks. Journal of Differential Equations, 2017, 263, 8295-8321.	2.2	7
8	Flocking Dynamics of the Inertial Spin Model with a Multiplicative Communication Weight. Journal of Nonlinear Science, 2019, 29, 1301-1342.	2.1	7
9	The Wigner-Lohe model for quantum synchronization and its emergent dynamics. Networks and Heterogeneous Media, 2017, 12, 403-416.	1.1	7
10	Emergent behaviors of high-dimensional Kuramoto models on Stiefel manifolds. Automatica, 2022, 136, 110072.	5.0	7
11	Stochastic consensus dynamics for nonconvex optimization on the Stiefel manifold: Mean-field limit and convergence. Mathematical Models and Methods in Applied Sciences, 2022, 32, 533-617.	3.3	7
12	Collective synchronization of the multi-component Gross–Pitaevskii–Lohe system. Physica D: Nonlinear Phenomena, 2019, 400, 132158.	2.8	6
13	Uniform-in-time transition from discrete to continuous dynamics in the Kuramoto synchronization. Journal of Mathematical Physics, 2019, 60, 051508.	1.1	5
14	Emergent behaviors of a first-order particle swarm model on the hyperboloid. Journal of Mathematical Physics, 2020, 61, 042701.	1.1	5
15	Asymptotic behavior of gradient flows on the unit sphere with various potentials. Journal of Differential Equations, 2021, 270, 47-93.	2.2	5
16	On the Completely Separable State for the Lohe Tensor Model. Journal of Statistical Physics, 2021, 183, 1.	1.2	5
17	Stochastic Lohe Matrix Model on the Lie Group and Mean-Field Limit. Journal of Statistical Physics, 2020, 178, 1467-1514.	1.2	3
18	Emergent dynamics of the Lohe matrix ensemble on a network under time-delayed interactions. Journal of Mathematical Physics, 2020, 61, 012702.	1.1	3

#	ARTICLE	IF	CITATIONS
19	Synchronization Conditions of a Mixed Kuramoto Ensemble in Attractive and Repulsive Couplings. Journal of Nonlinear Science, 2021, 31, 1.	2.1	3
20	State-Dependent Dynamics of the Lohe Matrix Ensemble on the Unitary Group under the Gradient Flow. SIAM Journal on Applied Dynamical Systems, 2020, 19, 1080-1123.	1.6	3
21	Emergence of synchronous behaviors for the Schrödinger–Lohe model with frustration. Nonlinearity, 2019, 32, 4609-4637.	1.4	2
22	Aggregation and disaggregation of active particles on the unit sphere with time-dependent frequencies. Discrete and Continuous Dynamical Systems - Series B, 2022, 27, 2247.	0.9	1
23	Cluster Synchrony of High-Dimensional Kuramoto Models with Higher-Order Couplings. SIAM Journal on Control and Optimization, 2021, 59, 4110-4135.	2.1	1
24	Existence and Emergent Dynamics of Quadratically Separable States to the Lohe Tensor Model. SIAM Journal on Applied Dynamical Systems, 2022, 21, 1166-1208.	1.6	1
25	Complete solvability of the inertial spin model with an averaged spin. Quarterly of Applied Mathematics, 2022, 80, 53-67.	0.7	0
26	On the emergent behavior of the swarming models on the complex sphere. Studies in Applied Mathematics, 2022, 148, 1303-1338.	2.4	0
27	On the complete aggregation of the Wigner-Lohe model for identical potentials. Networks and Heterogeneous Media, 2022, .	1.1	0