

Takashi Nagatani

List of Publications by Year in descending order

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287
papers

10,413
citations

36303

51
h-index

40979

93
g-index

287
all docs

287
docs citations

287
times ranked

2187
citing authors

#	ARTICLE	IF	CITATIONS
1	The physics of traffic jams. Reports on Progress in Physics, 2002, 65, 1331-1386.	20.1	872
2	Jamming transition in pedestrian counter flow. Physica A: Statistical Mechanics and Its Applications, 1999, 267, 487-498.	2.6	479
3	Modified KdV equation for jamming transition in the continuum models of traffic. Physica A: Statistical Mechanics and Its Applications, 1998, 261, 599-607.	2.6	398
4	Stabilization and enhancement of traffic flow by the next-nearest-neighbor interaction. Physical Review E, 1999, 60, 6395-6401.	2.1	297
5	Lattice gas simulation of experimentally studied evacuation dynamics. Physical Review E, 2003, 67, 067101.	2.1	280
6	TDGL and MKdV equations for jamming transition in the lattice models of traffic. Physica A: Statistical Mechanics and Its Applications, 1999, 264, 581-592.	2.6	240
7	Jamming transition in a two-dimensional traffic flow model. Physical Review E, 1999, 59, 4857-4864.	2.1	221
8	Experiment, theory, and simulation of the evacuation of a room without visibility. Physical Review E, 2004, 69, 066132.	2.1	210
9	Scaling behavior of crowd flow outside a hall. Physica A: Statistical Mechanics and Its Applications, 2001, 292, 545-554.	2.6	202
10	Jamming transition in two-dimensional pedestrian traffic. Physica A: Statistical Mechanics and Its Applications, 2000, 275, 281-291.	2.6	201
11	Jamming transition in the traffic-flow model with two-level crossings. Physical Review E, 1993, 48, 3290-3294.	2.1	200
12	Jamming transitions and the modified Korteweg-de Vries equation in a two-lane traffic flow. Physica A: Statistical Mechanics and Its Applications, 1999, 265, 297-310.	2.6	188
13	Evacuation of crawlers and walkers from corridor through an exit. Physica A: Statistical Mechanics and Its Applications, 2006, 367, 449-460.	2.6	173
14	Experiment and simulation of pedestrian counter flow. Physica A: Statistical Mechanics and Its Applications, 2004, 336, 638-650.	2.6	166
15	Scaling of pedestrian channel flow with a bottleneck. Physica A: Statistical Mechanics and Its Applications, 2001, 294, 257-268.	2.6	164
16	Thermodynamic theory for the jamming transition in traffic flow. Physical Review E, 1998, 58, 4271-4276.	2.1	161
17	Clogging transition of pedestrian flow in T-shaped channel. Physica A: Statistical Mechanics and Its Applications, 2002, 303, 239-250.	2.6	145
18	Jamming transition of pedestrian traffic at a crossing with open boundaries. Physica A: Statistical Mechanics and Its Applications, 2000, 286, 377-390.	2.6	141

#	ARTICLE	IF	CITATIONS
19	Transition and saturation of traffic flow controlled by traffic lights. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 325, 531-546.	2.6	135
20	Bunching transition in a time-headway model of a bus route. <i>Physical Review E</i> , 2001, 63, 036115.	2.1	114
21	Pattern formation and jamming transition in pedestrian counter flow. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 313, 709-723.	2.6	114
22	Delay effect on phase transitions in traffic dynamics. <i>Physical Review E</i> , 1998, 57, 6415-6421.	2.1	106
23	Soliton and kink jams in traffic flow with open boundaries. <i>Physical Review E</i> , 1999, 60, 180-187.	2.1	102
24	Spatio-temporal dynamics of jams in two-lane traffic flow with a blockage. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 318, 537-550.	2.6	98
25	Density waves in traffic flow. <i>Physical Review E</i> , 2000, 61, 3564-3570.	2.1	97
26	Sidle effect on pedestrian counter flow. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 377, 269-278.	2.6	91
27	Chaotic jam and phase transition in traffic flow with passing. <i>Physical Review E</i> , 1999, 60, 1535-1541.	2.1	83
28	Experiment and simulation for counterflow of people going on all fours. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 358, 516-528.	2.6	80
29	Effect of exit configuration on evacuation of a room without visibility. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 343, 712-724.	2.6	79
30	Clustering and maximal flow in vehicular traffic through a sequence of traffic lights. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 377, 651-660.	2.6	79
31	Bunching of cars in asymmetric exclusion models for freeway traffic. <i>Physical Review E</i> , 1995, 51, 922-928.	2.1	78
32	Traffic jams induced by fluctuation of a leading car. <i>Physical Review E</i> , 2000, 61, 3534-3540.	2.1	78
33	Multiple-vehicle collision in traffic flow by a sudden slowdown. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 1848-1857.	2.6	76
34	Jamming transition of high-dimensional traffic dynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 272, 592-611.	2.6	75
35	Jamming transition in traffic flow on triangular lattice. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 271, 200-221.	2.6	74
36	Chaotic and periodic motions of a cyclic bus induced by speedup. <i>Physical Review E</i> , 2002, 66, 046103.	2.1	74

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37	Effect of headway and velocity on safetyâ€“collision transition induced by lane changing in traffic flow. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 1626-1635.	2.6	74
38	Stability analysis and stabilization strategies for linear supply chains. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 335, 644-660.	2.6	71
39	Effect of gravitational force upon traffic flow with gradients. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 2880-2894.	2.6	70
40	Phase transition in a difference equation model of traffic flow. <i>Journal of Physics A</i> , 1998, 31, 5431-5438.	1.6	67
41	Anisotropic Effect on Jamming Transition in Traffic-Flow Model. <i>Journal of the Physical Society of Japan</i> , 1993, 62, 2656-2662.	1.6	66
42	Effect of partition line on jamming transition in pedestrian counter flow. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 308, 460-470.	2.6	65
43	Renormalization-group approach to multifractal structure of growth probability distribution in diffusion-limited aggregation. <i>Physical Review A</i> , 1987, 36, 5812-5819.	2.5	64
44	Dynamical transition and scaling in a mean-field model of pedestrian flow at a bottleneck. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 300, 558-566.	2.6	64
45	Self-similar behavior of a single vehicle through periodic traffic lights. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 347, 673-682.	2.6	63
46	Control of vehicular traffic through a sequence of traffic lights positioned with disordered interval. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 368, 560-566.	2.6	63
47	Kinetic clustering and jamming transitions in a car-following model for bus route. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 287, 302-312.	2.6	61
48	Delay transition of a recurrent bus on a circular route. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 297, 260-268.	2.6	57
49	Spatio-temporal distribution of escape time in evacuation process. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 320, 611-621.	2.6	56
50	Effect of dissolved gas on bubble nucleation. <i>International Journal of Heat and Mass Transfer</i> , 1976, 19, 1153-1159.	4.8	55
51	Kinetic segregation in a multilane highway traffic flow. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 237, 67-74.	2.6	51
52	Chain-reaction crash in traffic flow controlled by taillights. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015, 419, 1-6.	2.6	51
53	Effect of signals on two-route traffic system with real-time information. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 6137-6145.	2.6	49
54	Multiple-vehicle collision induced by lane changing in traffic flow. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 404, 171-179.	2.6	48

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55	Statistical characteristics of evacuation without visibility in random walk model. Physica A: Statistical Mechanics and Its Applications, 2004, 341, 638-648.	2.6	47
56	Jamming transition in counter flow of slender particles on square lattice. Physica A: Statistical Mechanics and Its Applications, 2006, 366, 503-512.	2.6	46
57	Self-Organization in 2D Traffic Flow Model with Jam-Avoiding Drive. Journal of the Physical Society of Japan, 1995, 64, 1421-1430.	1.6	44
58	Interaction between buses and passengers on a bus route. Physica A: Statistical Mechanics and Its Applications, 2001, 296, 320-330.	2.6	42
59	Multi-species coexistence in Lotka-Volterra competitive systems with crowding effects. Scientific Reports, 2018, 8, 1198.	3.3	42
60	Effect of Jam-Avoiding Turn on Jamming Transition in Two-Dimensional Traffic Flow Model. Journal of the Physical Society of Japan, 1994, 63, 1228-1231.	1.6	41
61	Traffic states and fundamental diagram in cellular automaton model of vehicular traffic controlled by signals. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 1673-1681.	2.6	41
62	Dynamical jamming transition induced by a car accident in traffic-flow model of a two-lane roadway. Physica A: Statistical Mechanics and Its Applications, 1994, 202, 449-458.	2.6	40
63	Optimal admission time for shifting the audience. Physica A: Statistical Mechanics and Its Applications, 2002, 313, 695-708.	2.6	40
64	Phase diagram in multi-phase traffic model. Physica A: Statistical Mechanics and Its Applications, 2005, 355, 530-550.	2.6	40
65	Traffic Jam and Shock Formation in Stochastic Traffic-Flow Model of a Two-Lane Roadway. Journal of the Physical Society of Japan, 1994, 63, 52-58.	1.6	39
66	Traffic states and jamming transitions induced by a bus in two-lane traffic flow. Physica A: Statistical Mechanics and Its Applications, 2005, 350, 548-562.	2.6	39
67	Effect of bottleneck on route choice in two-route traffic system with real-time information. Physica A: Statistical Mechanics and Its Applications, 2014, 395, 425-433.	2.6	37
68	Growth model with phase transition: Drift-diffusion-limited aggregation. Physical Review A, 1989, 39, 438-441.	2.5	36
69	Asymptotic stability of a modified Lotka-Volterra model with small immigrations. Scientific Reports, 2018, 8, 7029.	3.3	35
70	Traffic jam induced by a crosscut road in a traffic-flow model. Physica A: Statistical Mechanics and Its Applications, 1994, 207, 574-583.	2.6	34
71	Freezing transition in bi-directional CA model for facing pedestrian traffic. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 2917-2921.	2.1	33
72	Jamming transition induced by a stagnant street in a traffic-flow model. Physica A: Statistical Mechanics and Its Applications, 1993, 198, 108-116.	2.6	32

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73	Gas Kinetic Approach to Two-Dimensional Traffic Flow. Journal of the Physical Society of Japan, 1996, 65, 3150-3152.	1.6	32
74	Vehicular motion in counter traffic flow through a series of signals controlled by a phase shift. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 4976-4985.	2.6	32
75	Spreading of Traffic Jam in a Traffic Flow Model. Journal of the Physical Society of Japan, 1993, 62, 1085-1088.	1.6	31
76	Effect of perception irregularity on chain-reaction crash in low visibility. Physica A: Statistical Mechanics and Its Applications, 2015, 427, 92-99.	2.6	31
77	Instability of a Traffic Jam Induced by Slowing Down. Journal of the Physical Society of Japan, 1997, 66, 1928-1931.	1.6	30
78	Effect of irregularity on vehicular traffic through a sequence of traffic lights. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 1637-1647.	2.6	30
79	Traffic flow through multi-lane tollbooths on a toll highway. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 2268-2279.	2.6	30
80	Heterogeneous network promotes species coexistence: metapopulation model for rock-paper-scissors game. Scientific Reports, 2018, 8, 7094.	3.3	30
81	Power-Law Distribution and $1/f$ Noise of Waiting Time near Traffic-Jam Threshold. Journal of the Physical Society of Japan, 1993, 62, 2533-2536.	1.6	29
82	Chaos and dynamical transition of a single vehicle induced by traffic light and speedup. Physica A: Statistical Mechanics and Its Applications, 2005, 348, 561-571.	2.6	29
83	Clustering of Cars in Cellular Automaton Model of Freeway Traffic. Journal of the Physical Society of Japan, 1993, 62, 3837-3840.	1.6	28
84	Four species CA model for facing pedestrian traffic at rush hour. Applied Mathematical Modelling, 2012, 36, 702-711.	4.2	28
85	Laplacian growth phenomena with the third boundary condition: Crossover from dense structure to diffusion-limited aggregation fractal. Physical Review A, 1989, 40, 7286-7291.	2.5	27
86	Phase diagrams of noisy traffic states in the presence of a bottleneck. Physica A: Statistical Mechanics and Its Applications, 2000, 280, 602-613.	2.6	27
87	Complex behavior of elevators in peak traffic. Physica A: Statistical Mechanics and Its Applications, 2003, 326, 556-566.	2.6	27
88	Discontinuity at edge of traffic jam induced by slowdown. Physica A: Statistical Mechanics and Its Applications, 2006, 364, 464-472.	2.6	26
89	Traffic flow on a toll highway with electronic and traditional tollgates. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 4979-4990.	2.6	26
90	Multifractal structures of mass and growth probability distributions in diffusion-limited aggregation on hierarchical lattices. Physical Review A, 1988, 38, 2632-2640.	2.5	25

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91	Effect of car acceleration on traffic flow in 1D stochastic CA model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 223, 137-148.	2.6	25
92	Epidemics of random walkers in metapopulation model for complete, cycle, and star graphs. <i>Journal of Theoretical Biology</i> , 2018, 450, 66-75.	1.7	25
93	Vehicular traffic through a sequence of green-wave lights. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 380, 503-511.	2.6	24
94	Morphological changes in convection-diffusion-limited deposition. <i>Physical Review A</i> , 1991, 43, 2970-2976.	2.5	23
95	Kinetics of segregation in a two-lane highway traffic flow. <i>Journal of Physics A</i> , 1996, 29, 6531-6542.	1.6	23
96	Traffic behavior in a mixture of different vehicles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 284, 405-420.	2.6	23
97	Tour time in a two-route traffic system controlled by signals. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011, 390, 4522-4527.	2.6	23
98	Driving behavior and control in traffic system with two kinds of signals. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 403, 110-119.	2.6	23
99	Effect of velocity-dependent friction on multiple-vehicle collisions in traffic flow. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 465, 636-643.	2.6	23
100	Burgers equation for kinetic clustering in traffic flow. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 255, 158-162.	2.6	22
101	Multiple jamming transitions in traffic flow. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 290, 501-511.	2.6	22
102	Dynamical transitions to chaotic and periodic motions of two shuttle buses. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 319, 568-578.	2.6	22
103	Morphological Evolution in DLA under Rotating Flow. <i>Journal of the Physical Society of Japan</i> , 1990, 59, 3447-3450.	1.6	21
104	Kinetics of Clustering and Acceleration in 1D Traffic Flow. <i>Journal of the Physical Society of Japan</i> , 1996, 65, 3386-3389.	1.6	21
105	Effect of vehicular size on chain-reaction crash. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015, 438, 132-139.	2.6	21
106	Asymmetric effect of route-length difference and bottleneck on route choice in two-route traffic system. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015, 428, 416-425.	2.6	21
107	Traffic jam at adjustable tollgates controlled by line length. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 442, 131-136.	2.6	21
108	Gas Kinetics of Traffic Jam. <i>Journal of the Physical Society of Japan</i> , 1997, 66, 1219-1224.	1.6	20

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109	Dynamical transition in merging pedestrian flow without bottleneck. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 307, 505-515.	2.6	20
110	Traffic flow of mobile objects through obstacles: Turning and translational objects. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 157-173.	2.6	20
111	Safety-collision transition induced by lane changing in traffic flow. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 1319-1322.	2.1	20
112	Multiple-vehicle collision induced by a sudden stop in traffic flow. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 1803-1806.	2.1	20
113	Metapopulation model for rock-paper-scissors game: Mutation affects paradoxical impacts. <i>Journal of Theoretical Biology</i> , 2018, 450, 22-29.	1.7	20
114	Traffic flow stabilized by matching speed on network with a bottleneck. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 538, 122838.	2.6	20
115	Dynamical behavior in the nonlinear-map model of an elevator. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 310, 67-77.	2.6	19
116	Jam formation in traffic flow on a highway with some slowdown sections. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 374, 419-430.	2.6	19
117	Jamming and freezing transitions in CA model for facing pedestrian traffic with a soft boundary. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 1686-1689.	2.1	19
118	From ballistic deposition to the Kardar-Parisi-Zhang equation through a limiting procedure. <i>Physical Review E</i> , 1998, 58, 700-703.	2.1	18
119	Fluctuation of riding passengers induced by chaotic motions of shuttle buses. <i>Physical Review E</i> , 2003, 68, 036107.	2.1	18
120	Chaos and headway distribution of shuttle buses that pass each other freely. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 323, 686-694.	2.6	17
121	Dynamical transitions in peak elevator traffic. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 333, 441-452.	2.6	17
122	Chaos control and schedule of shuttle buses. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 371, 683-691.	2.6	17
123	Traffic flow on percolation-backbone fractal. <i>Chaos, Solitons and Fractals</i> , 2020, 135, 109771.	5.1	17
124	Bunching and transition of vehicles controlled by a sequence of traffic lights. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 350, 563-576.	2.6	16
125	Flow overshooting in crossing flow of lattice gas. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 4119-4132.	2.6	16
126	Double-crossover phenomena in Laplacian growth: Effects of sticking probability and finite viscosity ratio. <i>Physical Review A</i> , 1990, 41, 3263-3269.	2.5	15

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127	Self-organized criticality in asymmetric exclusion model with noise for freeway traffic. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1995, 218, 145-154.	2.6	15
128	Bunching and delay in bus-route system with a couple of recurrent buses. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 305, 629-639.	2.6	15
129	Volatile jam and flow fluctuation in counter flow of slender particles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 373, 672-682.	2.6	15
130	Effect of periodic inflow on elevator traffic. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 4397-4405.	2.6	15
131	Green-wave control of an unbalanced two-route traffic system with signals. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 5422-5430.	2.6	15
132	Statistical Theory of Effective Viscosity in a Random Suspension. <i>Journal of the Physical Society of Japan</i> , 1979, 47, 320-326.	1.6	14
133	Fractal structure of drift-diffusion-limited aggregation: Renormalization-group approach. <i>Physical Review A</i> , 1988, 37, 3514-3519.	2.5	14
134	Traffic mixing in deterministic two-lane model of Hurricane evacuation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 380, 490-502.	2.6	14
135	Traffic congestion and dispersion in Hurricane evacuation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 376, 617-627.	2.6	14
136	Freezing transition in the mean-field approximation model of pedestrian counter flow. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 4973-4978.	2.6	14
137	Traffic flow on star graph: Nonlinear diffusion. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 561, 125251.	2.6	14
138	Phase transition and scaling in the generalized traffic flow model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 246, 460-470.	2.6	13
139	Fundamental diagram in traffic flow of mixed vehicles on multi-lane highway. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 5583-5596.	2.6	13
140	Complex motion induced by elevator choice in peak traffic. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015, 436, 159-169.	2.6	13
141	Chain reaction of traffic breakdowns in coupled-cycle networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, 587, 126549.	2.6	13
142	Propagation of Jams in Congested Traffic Flow. <i>Journal of the Physical Society of Japan</i> , 1996, 65, 2333-2336.	1.6	12
143	Delay effect on schedule in shuttle bus transportation controlled by capacity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 3266-3276.	2.6	12
144	Nonlinear-map model for bus schedule in capacity-controlled transportation. <i>Applied Mathematical Modelling</i> , 2013, 37, 1823-1835.	4.2	12

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145	Effect of stopover on motion of two competing elevators in peak traffic. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 444, 613-621.	2.6	12
146	Traffic dispersion through a series of signals with irregular split. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 442, 122-130.	2.6	12
147	Effective permittivity in random anisotropic media. <i>Journal of Applied Physics</i> , 1980, 51, 4944-4949.	2.5	11
148	Time-dependent Ginzburg-Landau equation for the jamming transition in traffic flow. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 258, 237-242.	2.6	11
149	Phase transition and critical phenomenon in the power-law model of traffic. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 248, 353-364.	2.6	11
150	Phase diagrams in unidirectionally coupled map lattice for open traffic flow. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 289, 267-277.	2.6	11
151	Vehicular traffic through a self-similar sequence of traffic lights. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 386, 381-387.	2.6	11
152	Vehicular motion through a sequence of traffic lights controlled by logistic map. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 5887-5890.	2.1	11
153	Traffic states induced by slowdown sections on two-lane highway. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 1196-1206.	2.6	11
154	Effect of speed fluctuations on a green-light path in a 2d traffic network controlled by signals. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 4105-4115.	2.6	11
155	Chain-reaction crash on a highway in high visibility. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 450, 466-472.	2.6	11
156	Complex motion of a vehicle through a series of signals controlled by power-law phase. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 478, 1-10.	2.6	11
157	Metapopulation dynamics in the rock-paper-scissors game with mutation: Effects of time-varying migration paths. <i>Journal of Theoretical Biology</i> , 2019, 462, 425-431.	1.7	11
158	Diffusion-Limited Aggregation in Coupled Diffusion Fields. <i>Journal of the Physical Society of Japan</i> , 1990, 59, 474-481.	1.6	10
159	Self-Organized Criticality and Scaling in Lifetime of Traffic Jams. <i>Journal of the Physical Society of Japan</i> , 1995, 64, 31-34.	1.6	10
160	Fluctuation and transition of vehicular traffic through a sequence of traffic lights. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 350, 577-587.	2.6	10
161	Traffic jam and discontinuity induced by slowdown in two-stage optimal-velocity model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 370, 756-768.	2.6	10
162	Nonlinear-map model for split effect on vehicular traffic through periodic signals. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 374, 431-440.	2.6	10

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163	Epidemic Spreading in Unidirectional Mobile Agents. Journal of the Physical Society of Japan, 2017, 86, 113001.	1.6	10
164	Diffusively coupled Lotka–Volterra system stabilized by heterogeneous graphs. Physica A: Statistical Mechanics and Its Applications, 2019, 525, 1114-1123.	2.6	10
165	Epidemic spreading of random walkers in metapopulation model on an alternating graph. Physica A: Statistical Mechanics and Its Applications, 2019, 520, 350-360.	2.6	10
166	Renormalization group for viscous fingering with chemical dissolution. Physical Review Letters, 1991, 66, 616-619.	7.8	9
167	Structural transition in pitting corrosion of binary alloys. Physical Review A, 1992, 45, 2480-2484.	2.5	9
168	Dynamical transition to periodic motions of a recurrent bus induced by nonstops. Physica A: Statistical Mechanics and Its Applications, 2002, 312, 251-259.	2.6	9
169	Dynamics and schedule of shuttle bus controlled by traffic signal. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 5892-5900.	2.6	9
170	Complex motion in nonlinear-map model of elevators in energy-saving traffic. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 2047-2050.	2.1	9
171	Vehicular traffic flow through a series of signals with cycle time generated by a logistic map. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 851-856.	2.6	9
172	Effect of bypasses on vehicular traffic through a series of signals. Physica A: Statistical Mechanics and Its Applications, 2018, 506, 229-236.	2.6	9
173	Cellular automaton for migration in ecosystem: Application of traffic model to a predator–prey system. Physica A: Statistical Mechanics and Its Applications, 2018, 490, 803-807.	2.6	9
174	Dividing traffic cluster into parts by signal control. Physica A: Statistical Mechanics and Its Applications, 2018, 491, 463-470.	2.6	9
175	Band structures in one-dimensional binary alloys with self-similar atomic configurations. Physical Review B, 1985, 32, 2049-2057.	3.2	8
176	Multifractality of growth probability distribution in diffusion-limited-corrosion pit. Physical Review A, 1992, 45, R6985-R6988.	2.5	8
177	Aggregation at Early Stage of Growth in Thin Films. Journal of the Physical Society of Japan, 1993, 62, 981-989.	1.6	8
178	Enhancement and stabilization of traffic flow by moving in groups. Physical Review E, 2001, 64, 016106.	2.1	8
179	Complex motions of shuttle buses by speed control. Physica A: Statistical Mechanics and Its Applications, 2003, 322, 685-697.	2.6	8
180	Dynamical transition in random supply chain. Physica A: Statistical Mechanics and Its Applications, 2004, 335, 661-670.	2.6	8

#	ARTICLE	IF	CITATIONS
181	Dispersion and scaling of fluctuating vehicles through a sequence of traffic lights. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 361, 619-629.	2.6	8
182	Theory and simulation for jamming transitions induced by a slow vehicle in traffic flow. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 379, 263-273.	2.6	8
183	Space promotes the coexistence of species: Effective medium approximation for rock-paper-scissors system. <i>Ecological Modelling</i> , 2017, 359, 240-245.	2.5	8
184	Traffic jams induce dynamical phase transition in spatial rock-paper-scissors game. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 492, 1081-1087.	2.6	8
185	Allee effect with time-varying migration on heterogeneous graphs. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 527, 121276.	2.6	8
186	Infection promotes species coexistence: Rock-paper-scissors game with epidemic on graphs. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 535, 122531.	2.6	8
187	Traffic Flow in Scale-Free Hierarchical Directed Networks. <i>Journal of the Physical Society of Japan</i> , 2020, 89, 043002.	1.6	8
188	Hydrodynamic instability and the structural phase transition in diffusion-limited aggregation with drift. <i>Physical Review A</i> , 1989, 40, 5351-5355.	2.5	7
189	Fractal nature of non-Newtonian viscous fingering. <i>Physical Review A</i> , 1990, 41, 994-998.	2.5	7
190	Dynamical transition in a coupled-map lattice model of a recurrent bus. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 316, 625-636.	2.6	7
191	Complex motion of elevators in piecewise map model combined with circle map. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 2047-2051.	2.1	7
192	Modified circle map model for complex motion induced by a change of shuttle buses. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 3392-3401.	2.6	7
193	Jam formation with line changing at two tollgates on a highway. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 416, 596-603.	2.6	7
194	Effect of speedup delay on shuttle bus schedule. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 460, 121-130.	2.6	7
195	Complex motion of a shuttle bus between two terminals with periodic inflows. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 449, 254-264.	2.6	7
196	Effect of stoppage time on motion of a bus through a sequence of signals. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 465, 297-304.	2.6	7
197	Dynamic transition induced by route choice in two-route traffic network with onramp. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, 596, 127219.	2.6	7
198	Electronic states in one-dimensional self-similar alloy with $(31, 32, \dots, 3N)$ periods. <i>Physical Review B</i> , 1984, 30, 6241-6244.	3.2	6

#	ARTICLE	IF	CITATIONS
199	Convection effect on the diffusion-limited-aggregation fractal: Renormalization-group approach. Physical Review A, 1988, 37, 4461-4468.	2.5	6
200	Phase transition in diffusion-limited aggregation with two immiscible components. Physical Review A, 1991, 44, 6723-6729.	2.5	6
201	Multiparticle simulation for morphological transitions in diffusion-limited aggregation. Physical Review A, 1992, 46, 2022-2028.	2.5	6
202	SELF-ORGANIZED CRITICALITY IN 1D TRAFFIC FLOW. Fractals, 1996, 04, 279-283.	3.7	6
203	Fluctuation of tour time induced by interactions between cyclic trams. Physica A: Statistical Mechanics and Its Applications, 2004, 331, 279-290.	2.6	6
204	Schedule and complex motion of shuttle bus induced by periodic inflow of passengers. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3579-3582.	2.1	6
205	Effect of restart at signals on traffic flow through a series of signals. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 3223-3230.	2.6	6
206	Dynamics in two-elevator traffic system with real-time information. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 3296-3299.	2.1	6
207	Effect of periodic inflow on speed-controlled shuttle bus. Physica A: Statistical Mechanics and Its Applications, 2017, 469, 224-231.	2.6	6
208	Migration difference in diffusively-coupled prey-predator system on heterogeneous graphs. Physica A: Statistical Mechanics and Its Applications, 2020, 537, 122705.	2.6	6
209	Diffusively-Coupled Rock-Paper-Scissors Game with Mutation in Scale-Free Hierarchical Networks. Complexity, 2020, 2020, 1-8.	1.6	6
210	Diffusively Coupled SIQRS Epidemic Spreading in Hierarchical Small-World Network. Journal of the Physical Society of Japan, 2021, 90, 013001.	1.6	6
211	Pattern formation in nonlinear diffusion-limited aggregation. Physical Review A, 1989, 39, 2169-2174.	2.5	5
212	Morphology and segregation in two-component diffusion-limited aggregation. Physical Review A, 1991, 44, 8303-8312.	2.5	5
213	Effect of drift on segregation in two-component diffusion-limited aggregation. Physical Review A, 1992, 45, 3896-3902.	2.5	5
214	Phase transition and critical phenomenon in traffic flow model with velocity-dependent sensitivity. Physica A: Statistical Mechanics and Its Applications, 1998, 253, 353-365.	2.6	5
215	Transition to chaotic motion of a cyclic bus induced by nonstops. Physica A: Statistical Mechanics and Its Applications, 2002, 316, 637-648.	2.6	5
216	Chaotic motion of shuttle buses in two-dimensional-map model. Chaos, Solitons and Fractals, 2003, 18, 731-738.	5.1	5

#	ARTICLE	IF	CITATIONS
217	Velocity enhancement of slow particles in lattice-gas binary mixture. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 383, 425-434.	2.6	5
218	Transition from homogeneous to inhomogeneous flows in a lattice-gas binary mixture of slender particles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 2337-2352.	2.6	5
219	Green-light paths in city traffic controlled by signals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 536-539.	2.1	5
220	Jamming transitions induced by a slow vehicle in traffic flow on a multi-lane highway. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P04002.	2.3	5
221	Complex motion of shuttle buses in a transportation system reducing energy consumption. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011, 390, 4494-4501.	2.6	5
222	Nonlinear-map model for the control of an airplane schedule. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 6545-6553.	2.6	5
223	Diffusively coupled Allee effect on heterogeneous and homogeneous graphs. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 521, 18-28.	2.6	5
224	Avalanche of Traffic Jams in Directed Ladder Network. <i>Journal of the Physical Society of Japan</i> , 2021, 90, 043801.	1.6	5
225	Resistor-network approach to growth probability for dielectric-breakdown models at a surface. <i>Physical Review A</i> , 1987, 35, 2765-2767.	2.5	4
226	Crossover and thermodynamic representation in the extended \hat{I} -model for fractal growth. <i>Physical Review A</i> , 1990, 42, 4838-4844.	2.5	4
227	Viscous fingering near the percolation threshold: Double-crossover phenomena. <i>Physical Review A</i> , 1991, 43, 2963-2969.	2.5	4
228	DYNAMIC SCALING OF RIVER-SIZE DISTRIBUTION IN THE EXTENDED SCHEIDEGGER'S RIVER NETWORK MODEL. <i>Fractals</i> , 1993, 01, 247-252.	3.7	4
229	Transitions to chaos of a shuttle bus induced by continuous speedup. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 321, 641-652.	2.6	4
230	Dynamical model for retrieval of tram schedule. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 377, 661-671.	2.6	4
231	Passenger's fluctuation and chaos on ferryboats. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 383, 613-623.	2.6	4
232	Vehicular motion in 2D city traffic network with signals controlled by phase shift. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011, 390, 914-928.	2.6	4
233	Dynamic behavior in two-route bus traffic system with real-time information. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 413, 352-360.	2.6	4
234	Metapopulation model of rock-scissors-paper game with subpopulation-specific victory rates stabilized by heterogeneity. <i>Journal of Theoretical Biology</i> , 2018, 458, 103-110.	1.7	4

#	ARTICLE	IF	CITATIONS
235	Diffusively-Coupled Prey-Predator Dynamics in Scale-Free and Self-Similar Networks. Journal of the Physical Society of Japan, 2020, 89, 064003.	1.6	4
236	Phase transition and crossover in diffusion-limited aggregation with reaction times. Physical Review A, 1990, 42, 3512-3517.	2.5	3
237	Morphological Evolution in DLA under Thermal Convection. Journal of the Physical Society of Japan, 1991, 60, 1181-1184.	1.6	3
238	Crossover effects in chemical-dissolution phenomena: A renormalization-group study. Physical Review A, 1992, 45, 2471-2479.	2.5	3
239	Dynamical behavior of N shuttle buses not passing each other: chaotic and periodic motions. Physica A: Statistical Mechanics and Its Applications, 2003, 327, 570-582.	2.6	3
240	Stability and transition in multiple production lines. Physica A: Statistical Mechanics and Its Applications, 2004, 334, 243-254.	2.6	3
241	Chaotic and periodic motions of two competing vehicles controlled by traffic lights. Chaos, Solitons and Fractals, 2005, 25, 245-253.	5.1	3
242	CHAOS AND DYNAMICS OF CYCLIC TRUCKING OF SIZE TWO. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 4065-4073.	1.7	3
243	Hardening by softening in a flow of chainlike self-driven objects. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 3202-3212.	2.6	3
244	Fundamental Study of the Disappearance of a Bubble Nucleus in a Liquid Medium. Transactions of the Japan Society of Mechanical Engineers, 1975, 41, 1530-1538.	0.0	2
245	Disordered resistor network approach to the effective conductivity in inhomogeneous continua with substitutional disorder. Journal of Applied Physics, 1983, 54, 5132-5138.	2.5	2
246	Scaling Structure of Pit Profile in Pitting Corrosion. Journal of the Physical Society of Japan, 1991, 60, 3997-4000.	1.6	2
247	Modified Laplacian Growth under Shear Flow. Journal of the Physical Society of Japan, 1991, 60, 2700-2705.	1.6	2
248	Unsteady Diffusion-Limited Aggregation. Journal of the Physical Society of Japan, 1992, 61, 1437-1440.	1.6	2
249	Fractal Structure and Pattern in Two-Species Growth Model: A Generalized Directed Percolation. Journal of the Physical Society of Japan, 1992, 61, 3196-3202.	1.6	2
250	Phase separation and evolution of one pulse jam in traffic flow. Physica A: Statistical Mechanics and Its Applications, 2005, 354, 571-581.	2.6	2
251	Expansion, compression and triangular shockwaves in traffic flow above critical point. Physica A: Statistical Mechanics and Its Applications, 2007, 373, 713-720.	2.6	2
252	Traffic dispersion induced by noise in off-lattice model. Physica A: Statistical Mechanics and Its Applications, 2007, 374, 409-418.	2.6	2

#	ARTICLE	IF	CITATIONS
253	Modeling and simulation for vehicular traffic in city network controlled by signals. , 2009, , .		2
254	Randomness control of vehicular motion through a sequence of traffic signals at irregular intervals. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 2823-2826.	2.1	2
255	Traffic Behavior in CA Model of Vehicular Traffic through a Series of Signals. Discrete Dynamics in Nature and Society, 2012, 2012, 1-17.	0.9	2
256	Restricted migration of infected individuals in epidemic metapopulation model on double graphs. Physica A: Statistical Mechanics and Its Applications, 2019, 531, 121775.	2.6	2
257	Vehicular Traffic Through Signals in Hierarchical Small-World Directed Networks. Journal of the Physical Society of Japan, 2020, 89, 073001.	1.6	2
258	Metapopulation dynamics on double graphs for mediated infectious disease in patchy environment. Physica A: Statistical Mechanics and Its Applications, 2021, 581, 126213.	2.6	2
259	Thermodynamic Study of the Stability of a Gas Bubble in a Liquid Drop. Transactions of the Japan Society of Mechanical Engineers, 1975, 41, 909-918.	0.0	1
260	Effect of growing interface on the diffusion-limited aggregation: Crossover from the diffusion-limited-aggregation fractal. Physical Review A, 1988, 38, 6396-6401.	2.5	1
261	Diffusion-limited aggregation on hierarchical lattice with multifractal heterogeneity. Physical Review A, 1990, 41, 999-1005.	2.5	1
262	Crossover phenomena in non-Newtonian viscous fingers at a finite viscosity ratio. Physical Review A, 1990, 41, 4433-4438.	2.5	1
263	Drift-Induced Transition and Growth-Rate Distribution in Diffusion-Limited Aggregation. Journal of the Physical Society of Japan, 1995, 64, 352-355.	1.6	1
264	Monte Carlo simulation of coverage in two-dimensional thin-layer electrodeposition. Heat Transfer - Japanese Research, 1998, 27, 365-375.	0.1	1
265	Nonlinear Wave and Stabilization of Traffic Flow.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2000, 66, 2884-2890.	0.2	1
266	Chemical-reaction model for Mexican wave. Physica A: Statistical Mechanics and Its Applications, 2003, 323, 677-685.	2.6	1
267	Traffic dispersion and its mapping to one-sided ballistic deposition. Physica A: Statistical Mechanics and Its Applications, 2007, 376, 641-648.	2.6	1
268	Vehicular motion on a selected path in a 2d traffic network controlled by signals. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 2911-2921.	2.6	1
269	Freezing transition in a four-directional traffic model for facing and crossing pedestrian flow. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 1729-1738.	2.6	1
270	Effect of directional migration on Lotka-Volterra system with desert. BioSystems, 2017, 162, 75-80.	2.0	1

#	ARTICLE	IF	CITATIONS
271	Effects of pest control on a food chain in patchy environment: Species-dependent activity range on multilayer graphs. <i>BioSystems</i> , 2021, 206, 104425.	2.0	1
272	Laplacian Growth at Reaction Surface. <i>Journal of the Physical Society of Japan</i> , 1990, 59, 3868-3875.	1.6	1
273	Deterministic Avalanches on a Branching Koch Curve. <i>Journal of the Physical Society of Japan</i> , 1991, 60, 2571-2575.	1.6	1
274	Fractal and Multifractal Properties of Poissonian Growth. <i>Journal of the Physical Society of Japan</i> , 1992, 61, 1457-1460.	1.6	1
275	Flattening Infection Curve by Movement Restriction in Hierarchical Small-World Network. <i>Journal of the Physical Society of Japan</i> , 2021, 90, .	1.6	1
276	Stabilization of long-wavelength modes on the interface in electrodeposition. <i>Physical Review A</i> , 1989, 40, 2154-2158.	2.5	0
277	Crossover phenomena in viscous fingering with nonviscous-flow threshold. <i>Physical Review A</i> , 1990, 41, 5758-5760.	2.5	0
278	Diffusion-Limited Aggregation on Percolating Cluster: Crossover and Multifractal Structure. <i>Journal of the Physical Society of Japan</i> , 1991, 60, 1217-1225.	1.6	0
279	Scaling of Aggregation with Creation. <i>Journal of the Physical Society of Japan</i> , 1994, 63, 830-833.	1.6	0
280	Scaling of Coalescing Random Walkers with Injection Obeying Nonlinear Conservation Law. <i>Journal of the Physical Society of Japan</i> , 1994, 63, 3629-3633.	1.6	0
281	Monte Carlo Simulation of Coverage in Two-Dimensional Thin-Layer Electrodeposition. 880-02 <i>Nihon Kikai Gakkai Ronbunshu</i> Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1997, 63, 267-272.	0.2	0
282	Regularization and control of irregular vehicular motion through a series of signals at disordered intervals. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011, 390, 2127-2134.	2.6	0
283	Complex Dynamics of Bus, Tram, and Elevator Delays in Transportation Systems. , 2019, , 593-612.		0
284	K-1801 CA Simulation of Mass Transfer in Stirred Tank with Absorbent Particles. The Proceedings of the JSME Annual Meeting, 2001, II.01.1, 369-370.	0.0	0
285	K-1802 CA Simulation of Solidification process in a Stirred Tank. The Proceedings of the JSME Annual Meeting, 2001, II.01.1, 371-372.	0.0	0
286	RENORMALIZATION GROUP FOR FRACTAL GROWTH PHENOMENA. , 1993, , 73-124.		0
287	Complex Dynamics of Bus, Tram, and Elevator Delays in Transportation Systems. , 2017, , 1-20.		0