

Teruhisa S Komatsu

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,153
citations

623734

14
h-index

642732

23
g-index

27
all docs

27
docs citations

27
times ranked

713
citing authors

#	ARTICLE	IF	CITATIONS
1	Kink soliton characterizing traffic congestion. <i>Physical Review E</i> , 1995, 52, 5574-5582.	2.1	305
2	Creep Motion in a Granular Pile Exhibiting Steady Surface Flow. <i>Physical Review Letters</i> , 2001, 86, 1757-1760.	7.8	254
3	Steady-State Thermodynamics for Heat Conduction: Microscopic Derivation. <i>Physical Review Letters</i> , 2008, 100, 230602.	7.8	85
4	Expression for the Stationary Distribution in Nonequilibrium Steady States. <i>Physical Review Letters</i> , 2008, 100, 030601.	7.8	75
5	Toward a Robust Phenomenological Expression of Evaporation Efficiency for Unsaturated Soil Surfaces. <i>Journal of Applied Meteorology and Climatology</i> , 2003, 42, 1330-1334.	1.7	67
6	Pattern Selection of Cracks in Directionally Drying Fracture. <i>Japanese Journal of Applied Physics</i> , 1997, 36, 391-395.	1.5	60
7	Representation of Nonequilibrium Steady States in Large Mechanical Systems. <i>Journal of Statistical Physics</i> , 2009, 134, 401-423.	1.2	47
8	Entropy and Nonlinear Nonequilibrium Thermodynamic Relation for Heat Conducting Steady States. <i>Journal of Statistical Physics</i> , 2011, 142, 127-153.	1.2	40
9	A heat pump at a molecular scale controlled by a mechanical force. <i>Europhysics Letters</i> , 2006, 75, 22-28.	2.0	34
10	Nonlinear waves in fluidized beds. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993, 183, 56-62.	2.1	29
11	Collective motion occurs inevitably in a class of populations of globally coupled chaotic elements. <i>Physical Review E</i> , 1998, 57, 1570-1575.	2.1	22
12	Thermal diode utilizing asymmetric contacts to heat baths. <i>Physical Review E</i> , 2010, 81, 010103.	2.1	22
13	Exact Equalities and Thermodynamic Relations for Nonequilibrium Steady States. <i>Journal of Statistical Physics</i> , 2015, 159, 1237-1285.	1.2	20
14	Pseudo-solitons in fluidized beds. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 204, 277-289.	2.6	18
15	Thermal transistor utilizing gas-liquid transition. <i>Physical Review E</i> , 2011, 83, 012104.	2.1	15
16	Thermodynamic Entropy and Excess Information Loss in Dynamical Systems with Time-Dependent Hamiltonians. <i>Physical Review Letters</i> , 1999, 82, 912-915.	7.8	13
17	Hidden heat transfer in equilibrium states implies directed motion in nonequilibrium states. <i>Physical Review E</i> , 2006, 73, 065107.	2.1	13
18	Confined chaotic behavior in collective motion for populations of globally coupled chaotic elements. <i>Physical Review E</i> , 1999, 59, 1675-1682.	2.1	7

#	ARTICLE	IF	CITATIONS
19	Oriented Process Induced by Dynamically Regulated Energy Barriers. Journal of the Physical Society of Japan, 2005, 74, 1653-1656.	1.6	6
20	Stationary Distribution and Thermodynamic Relation in Nonequilibrium Steady States. Progress of Theoretical Physics Supplement, 2010, 184, 329-338.	0.1	6
21	Dynamically regulated energy barriers with violation of symmetry for reaction path. Physica A: Statistical Mechanics and Its Applications, 2006, 361, 216-232.	2.6	5
22	A glimpse of fluid turbulence from the molecular scale. International Journal of Modern Physics C, 2014, 25, 1450034.	1.7	5
23	Energy conversion by autonomous regulation of chaos: Dynamical mechanism of loose coupling. Chaos, 2003, 13, 1032-1040.	2.5	4
24	Proposition of autonomous energy transducer and its working mechanism. , 2004, , .		0