

Teruhisa S Komatsu

List of Publications by Year in descending order

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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	Exact Equalities and Thermodynamic Relations for Nonequilibrium Steady States. Journal of Statistical Physics, 2015, 159, 1237-1285.	1.2	20
2	A glimpse of fluid turbulence from the molecular scale. International Journal of Modern Physics C, 2014, 25, 1450034.	1.7	5
3	Entropy and Nonlinear Nonequilibrium Thermodynamic Relation for Heat Conducting Steady States. Journal of Statistical Physics, 2011, 142, 127-153.	1.2	40
4	Thermal transistor utilizing gas-liquid transition. Physical Review E, 2011, 83, 012104.	2.1	15
5	Stationary Distribution and Thermodynamic Relation in Nonequilibrium Steady States. Progress of Theoretical Physics Supplement, 2010, 184, 329-338.	0.1	6
6	Thermal diode utilizing asymmetric contacts to heat baths. Physical Review E, 2010, 81, 010103.	2.1	22
7	Representation of Nonequilibrium Steady States in Large Mechanical Systems. Journal of Statistical Physics, 2009, 134, 401-423.	1.2	47
8	Steady-State Thermodynamics for Heat Conduction: Microscopic Derivation. Physical Review Letters, 2008, 100, 230602.	7.8	85
9	Expression for the Stationary Distribution in Nonequilibrium Steady States. Physical Review Letters, 2008, 100, 030601.	7.8	75
10	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
11	A heat pump at a molecular scale controlled by a mechanical force. Europhysics Letters, 2006, 75, 22-28.	2.0	34
12	Hidden heat transfer in equilibrium states implies directed motion in nonequilibrium states. Physical Review E, 2006, 73, 065107.	2.1	13
13	Oriented Process Induced by Dynamically Regulated Energy Barriers. Journal of the Physical Society of Japan, 2005, 74, 1653-1656.	1.6	6
14	Proposition of autonomous energy transducer and its working mechanism. , 2004, , .		0
15	Energy conversion by autonomous regulation of chaos: Dynamical mechanism of loose coupling. Chaos, 2003, 13, 1032-1040.	2.5	4
16	Toward a Robust Phenomenological Expression of Evaporation Efficiency for Unsaturated Soil Surfaces. Journal of Applied Meteorology and Climatology, 2003, 42, 1330-1334.	1.7	67
17	Creep Motion in a Granular Pile Exhibiting Steady Surface Flow. Physical Review Letters, 2001, 86, 1757-1760.	7.8	254
18	Thermodynamic Entropy and Excess Information Loss in Dynamical Systems with Time-Dependent Hamiltonians. Physical Review Letters, 1999, 82, 912-915.	7.8	13

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Pattern Selection of Cracks in Directionally Drying Fracture. <i>Japanese Journal of Applied Physics</i> , 1997, 36, 391-395.	1.5	60
22	Kink soliton characterizing traffic congestion. <i>Physical Review E</i> , 1995, 52, 5574-5582.	2.1	305
23	Pseudo-solitons in fluidized beds. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 204, 277-289.	2.6	18
24	Nonlinear waves in fluidized beds. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993, 183, 56-62.	2.1	29