Kenji Tsuruta

List of Publications by Year
in descending order

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111 papers	1,587 citations	377584 21 h-index	355658 38 g-index
113 all docs	113 docs citations	113 times ranked	1965 citing authors

#	Article	IF	Citations
1	Low-frequency sound absorbing metasurface using multilayer split resonators. Japanese Journal of Applied Physics, 2021, 60, SDDA01.	0.8	6
2	Photoinduced oxygen transport in cobalt double-perovskite crystal EuBaCo2O5.39. Applied Materials Today, 2021, 24, 101167.	2.3	3
3	Super-chiral vibrational spectroscopy with metasurfaces for high-sensitive identification of alanine enantiomers. Applied Physics Letters, 2020, 117, .	1.5	19
4	Topologically robust sound wave transport in two-dimensional phononic crystal with a circular rod arrangement in water. Japanese Journal of Applied Physics, 2020, 59, SKKA05.	0.8	10
5	Design of non-circular membranes metasurfaces for broadband sound absorption. Japanese Journal of Applied Physics, 2020, 59, SKKA06.	0.8	9
6	Liquid-like dielectric response is an origin of long polaron lifetime exceeding 10 Î¼s in lead bromide perovskites. Journal of Chemical Physics, 2020, 152, 084704.	1.2	14
7	Whitish daytime radiative cooling using diffuse reflection of non-resonant silica nanoshells. Scientific Reports, 2020, 10, 6486.	1.6	11
8	Characterization of the Î£5(210) / [001] Grain Boundary of Methyl-Ammonium Lead Triiodide Perovskite using Density Functional Theory. Transactions of the Materials Research Society of Japan, 2020, 45, 67-71.	0.2	0
9	A mechanistic investigation of moisture-induced degradation of methylammonium lead iodide. Applied Physics Letters, 2020, 117, .	1.5	3
10	First-principles Study on Water Dissociation in Grain Boundary of MAPbI3 Perovskite. MRS Advances, 2019, 4, 1965-1971.	0.5	1
11	Selective Reduction Mechanism of Graphene Oxide Driven by the Photon Mode versus the Thermal Mode. ACS Nano, 2019, 13, 10103-10112.	7.3	30
12	Ultrafast isomerization-induced cooperative motions to higher molecular orientation in smectic liquid-crystalline azobenzene molecules. Nature Communications, 2019, 10, 4159.	5.8	41
13	Rapid and reversible lithiation of doped biogenous iron oxide nanoparticles. Scientific Reports, 2019, 9, 1828.	1.6	4
14	Design and Assessment of Phononic Crystals for Controlling Ultrasonic Wave via Optical Measurement Method. , 2018, , .		2
15	Transferable Analytical Model of Phononic Bandgap in Cross-Hole Phononic Crystals. , 2018, , .		0
16	Numerical Simulation of Non-Reciprocal Acoustic Waveguide Based on Indirect Interband Transitions. , 2018, , .		0
17	Metaheuristic Ab Initio Optimum Search for Doping Effects in Nanocarbons. Materials Science Forum, 2018, 941, 2356-2359.	0.3	1
18	Design of Non-Reciprocal Lamb Wave Filter by Heterojunction Phononic Crystals. , 2018, , .		0

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19	Performance limit of daytime radiative cooling in warm humid environment. AIP Advances, 2018, 8, .	0.6	63
20	Performance Improvement of HfS2 Transistors by Atomic Layer Deposition of HfO2. IEEE Nanotechnology Magazine, 2017, 16, 582-587.	1.1	16
21	Selective electroless plating of 3D-printed plastic structures for three-dimensional microwave metamaterials. Applied Physics Letters, 2017, 111, .	1.5	17
22	Cross-Polarized Surface-Enhanced Infrared Spectroscopy by Fano-Resonant Asymmetric Metamaterials. Scientific Reports, 2017, 7, 3205.	1.6	18
23	Robust plasmonic hot-spots in a metamaterial lattice for enhanced sensitivity of infrared molecular detection. Applied Physics Letters, 2017, 111, .	1.5	6
24	Design of non-reciprocal acoustic waveguides by indirect interband transitions. Japanese Journal of Applied Physics, 2017, 56, 07JB01.	0.8	3
25	Structure optimization of metallodielectric multilayer for high-efficiency daytime radiative cooling. , 2017, , .		2
26	Automated design of infrared digital metamaterials by genetic algorithm. , 2017, , .		0
27	Effect of the HfO<inf>2</inf> passivation on HfS<inf>2</inf> Transistors. , 2016, , .		1
28	Few-layer HfS2 transistors. Scientific Reports, 2016, 6, 22277.	1.6	131
29	Rectification of Lamb wave propagation in thin plates with piezo-dielectric periodic structures. Japanese Journal of Applied Physics, 2016, 55, 07KB02.	0.8	7
30	Controlled Fano resonances via symmetry breaking in metamaterials for high-sensitive infrared spectroscopy. , 2016, , .		0
31	Doping effect on photoabsorption and charge-separation dynamics in light-harvesting organic molecule. AIP Advances, 2016, 6, 015305.	0.6	4
32	Terahertz Wavefront Control by Graphene Metasurface. Materials Research Society Symposia Proceedings, 2015, 1788, 37-42.	0.1	0
33	Fabrication of thin-film HfS<inf>2</inf> FET. , 2015, , .		2
34	Terahertz acoustic wave on piezoelectric semiconductor film via large-scale molecular dynamics simulation. Japanese Journal of Applied Physics, 2015, 54, 07HB07.	0.8	13
35	Terahertz wavefront control by tunable metasurface made of graphene ribbons. Applied Physics Letters, 2015, 107, .	1.5	88
36	Graphene Metasurface for THz Wavefront Control. , 2014, , .		0

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37	Phononic-Crystal Acoustic Lens by Design for Energy-Transmission Devices. Electronics and Communications in Japan, 2014, 97, 22-27.	0.3	10
38	Core structure and dissociation energetics of basal edge dislocation in Î±-Al2O3: A combined atomistic simulation and transmission electron microscopy analysis. Acta Materialia, 2014, 65, 76-84.	3.8	14
39	A density functional study of vacancy formation in grain boundaries of undoped Î±-alumina. Acta Materialia, 2014, 69, 365-371.	3.8	23
40	Design and development of highly eï¬ƒcient transducer for ultrasonic wireless power transmission system. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2013, 184, 27-35.	0.2	2
41	Optically Powered Voltage Supply Device for Effective Utilization of Optical Energy in the Fiber-to-the-Home Network. Electronics and Communications in Japan, 2013, 96, 37-42.	0.3	0
42	Experimental Analysis of Optical Fiber Multimode Interference Structure and its Application to Refractive Index Measurement. Japanese Journal of Applied Physics, 2012, 51, 04DG14.	0.8	15
43	Design and Development of Highly Efficient Transducer for Ultrasonic Wireless Power Transmission System. IEEJ Transactions on Electronics, Information and Systems, 2012, 132, 337-343.	0.1	3
44	Optically-powered Voltage-supply-device for Effective Utilization of Optical Energy in the Fiber-To-The-Home Network. IEEJ Transactions on Electronics, Information and Systems, 2012, 132, 495-499.	0.1	0
45	Phononic-Crystal Acoustic Lens by Design for Energy-Transmission Devices. IEEJ Transactions on Electronics, Information and Systems, 2012, 132, 686-690.	0.1	0
46	Acoustic lens using sonic crystal for energy-transmission application. , 2011, , .		0
47	Development of highly efficient transducer for wireless power transmission system by ultrasonic. , 2011, , .		10
48	Structures and Local Electronic States of Dislocation Loop in 4H-SiC via a Linear-Scaling Tight-Binding Study. Materials Transactions, 2011, 52, 672-676.	0.4	1
49	An ab initio analysis of electronic states associated with a silicon vacancy in cubic symmetry. Solid State Communications, 2011, 151, 1605-1608.	0.9	8
50	Initial Stage of Consolidation of Silicon-Carbide Nanocrystals under Pressure: A Tight-Binding Molecular-Dynamics Study. Journal of Nanomaterials, 2011, 2011, 1-6.	1.5	1
51	Negative Refraction and Energy-Transmission Efficiency of Acoustic Waves in Two-Dimensional Phononic Crystal: Numerical and Experimental Study. Japanese Journal of Applied Physics, 2011, 50, 067301.	0.8	7
52	Negative Refraction and Energy-Transmission Efficiency of Acoustic Waves in Two-Dimensional Phononic Crystal: Numerical and Experimental Study. Japanese Journal of Applied Physics, 2011, 50, 067301.	0.8	3
53	Density-Functional Analysis on Vacancy Orbital and its Elastic Response of Silicon. Materials Research Society Symposia Proceedings, 2009, 1195, 216.	0.1	2
54	A classical-map simulation of two-dimensional electron fluid: an extension of classical-map hypernetted-chain theory beyond the hypernetted-chain approximation. Journal of Physics Condensed Matter, 2009, 21, 045502.	0.7	2

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55	Parallel FDTD Simulations on Optical and Acoustic Metamaterials. Materials Research Society Symposia Proceedings, 2009, 1223, 6091.	0.1	0
56	Classical and Hybrid Density-Functional/Classical Molecular Dynamics Study of Dislocation Core in Alumina Ceramic. Materials Transactions, 2009, 50, 1015-1018.	0.4	2
57	Negative Refraction of Acoustic Waves in a Two-Dimensional Phononic Crystal via FDTD Simulation. Materials Transactions, 2009, 50, 1004-1007.	0.4	15
58	An FDTD Analysis of Nanostructured Electromagnetic Metamaterials Using Parallel Computer. Materials Transactions, 2009, 50, 994-998.	0.4	5
59	Spin polarization of two-dimensional electron system in parabolic potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 6197-6201.	0.9	3
60	Nickel-related defect in diamond: A tight-binding molecular-dynamics study. Computational Materials Science, 2007, 38, 873-882.	1.4	1
61	Two-Step Melting of Spherical Yukawa and Coulomb Clusters. Journal of the Physical Society of Japan, 2006, 75, 123501.	0.7	10
62	Dynamics of melting of spherical Yukawa and Coulomb clusters. AIP Conference Proceedings, 2006, , .	0.3	0
63	Structure and thermodynamics of spherical Yukawa and Coulomb clusters. AIP Conference Proceedings, 2006, , .	0.3	0
64	Structure of spherical Yukawa clusters. Journal of Physics A, 2006, 39, 4545-4548.	1.6	1
65	Structure of finite two-dimensional systems of dust particles at finite temperatures. Physics of Plasmas, 2005, 12, 102108.	0.7	1
66	Structure of spherical Yukawa clusters: A model for dust particles in dusty plasmas in an isotropic environment. Physical Review E, 2005, 72, 036406.	0.8	43
67	Ordering of dust particles in dusty plasmas under microgravity. Physical Review E, 2005, 71, 045401.	0.8	31
68	Thermodynamics of a two-dimensional Yukawa fluid. Physical Review E, 2004, 70, 016405.	0.8	33
69	Estimation of screening length and electric charge on particles in single-layered dusty plasma crystals. Physical Review E, 2003, 68, 017401.	0.8	11
70	Competition between Two Forms of Ordering in Finite Coulomb Clusters. Physical Review Letters, 2002, 88, 125002.	2.9	54
71	Dusty plasmas under microgravity. AIP Conference Proceedings, 2002, , .	0.3	1
72	Structure and madelung energy of Coulomb clusters. AIP Conference Proceedings, 2002, , .	0.3	0

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73	Structure of finite two-dimensional Yukawa lattices: Dust crystals. Physical Review E, 2001, 64, 066402.	0.8	76
74	Neck formation processes of nanocrystalline silicon carbide: A tight-binding molecular dynamics study. Philosophical Magazine Letters, 2001, 81, 357-366.	0.5	13
75	Parallel Tight-Binding Molecular Dynamics for High-Temperature Neck Formation Processes of Nanocrystalline Silicon Carbide. Materials Transactions, 2001, 42, 2261-2265.	0.4	8
76	On the Madelung energy of spherical Coulomb clusters. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 281, 256-259.	0.9	2
77	Yukawa Mixtures with and without Gravity. Physica Scripta, 2001, T89, 117.	1.2	2
78	Initial Stages of Sintering of TiO2 Nanoparticles: Variable-Charge Molecular Dynamics Simulations. Materials Research Society Symposia Proceedings, 2000, 634, 761.	0.1	0
79	Parallel Tight-Binding Simulations of Nanophase Ceramics: Atomic and Electronic Transport at Grain Boundaries. Materials Research Society Symposia Proceedings, 2000, 653, .	0.1	0
80	A scalable molecular-dynamics algorithm suite for materials simulations: design-space diagram on 1024 Cray T3E processors. Future Generation Computer Systems, 2000, 17, 279-291.	4.9	33
81	Parallel Tight-Binding Simulations of Nanophase Ceramics: Atomic and Electronic Transport at Grain Boundaries. Materials Research Society Symposia Proceedings, 2000, 653, 1.	0.1	0
82	Role of atomic charge transfer on sintering of TiO2 nanoparticles: Variable-charge molecular dynamics. Journal of Applied Physics, 2000, 88, 6011-6015.	1.1	37
83	Sintering, structure, and mechanical properties of nanophase SiC: A molecular-dynamics and neutron scattering study. Applied Physics Letters, 2000, 77, 1132-1134.	1.5	47
84	Structures and Structural Transitions in Strongly-Coupled Yukawa Dusty Plasmas and Mixtures. , 2000, , 141-146.		0
85	Strongly coupled nonneutral plasmas : Equilibrium and relaxation in two-component plasmas in Penning-Malmberg trap. European Physical Journal Special Topics, 2000, 10, Pr5-271-Pr5-274.	0.2	0
86	Structures and dynamics of dusty plasmas and dusty plasma mixtures. , 1999, , .		1
87	Two-component nonequilibrium nonneutral plasma in Penning-Malmberg trap. , 1999, , .		0
88	Structural Correlations and Mechanical Behavior in Nanophase Silica Glasses. Physical Review Letters, 1999, 82, 4018-4021.	2.9	70
89	Parallel Molecular Dynamics Simulations of High Temperature Ceramics. Journal of the European Ceramic Society, 1999, 19, 2257-2264.	2.8	5
90	Variable-charge interatomic potentials for molecular-dynamics simulations of TiO2. Journal of Applied Physics, 1999, 86, 3036-3041.	1.1	64

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91	Intercluster Interaction of TiO2 Nanoclusters Using Variable-Charge Interatomic Potentials. Materials Research Society Symposia Proceedings, 1999, 581, 667.	0.1	1
92	Tight-Binding Molecular Dynamics of Ceramic Nanocrystals Using Pc-Based Parallel Machines. Materials Research Society Symposia Proceedings, 1999, 581, 673.	0.1	1
93	Conferences & workshops: International conference on computer design '98. IEEE Computational Science and Engineering, 1998, 5, 11-15.	0.6	13
94	N-body problems: Atomistic simulation of nanostructured materials. IEEE Computational Science and Engineering, 1998, 5, 68-78.	0.6	7
95	Dynamics of Consolidation and Crack Growth in Nanoclusterâ€Assembled Amorphous Silicon Nitride. Journal of the American Ceramic Society, 1998, 81, 433-436.	1.9	22
96	Structure and mechanical failure in nanophase silicon nitride. Advances in Metal and Semiconductor Clusters, 1998, , 263-298.	1.5	4
97	Morphology of Pores and Interfaces and Mechanical Behavior of Nanocluster-Assembled Silicon Nitride Ceramic. Physical Review Letters, 1997, 78, 689-692.	2.9	67
98	Role of Ultrafine Microstructures in Dynamic Fracture in Nanophase Silicon Nitride. Physical Review Letters, 1997, 78, 2144-2147.	2.9	79
99	Oxidation Dynamics of Nanophase Aluminum Clusters: A Molecular Dynamics Study. Materials Research Society Symposia Proceedings, 1997, 481, 625.	0.1	3
100	Million atom molecular dynamics simulations of materials on parallel computers. Current Opinion in Solid State and Materials Science, 1996, 1, 853-863.	5.6	8
101	Early stages of sintering of silicon nitride nanoclusters: a molecular-dynamics study on parallel machines. Europhysics Letters, 1996, 33, 441-446.	0.7	51
102	Fracture of Nanophase Ceramics: A Molecular-Dynamics Study. Materials Research Society Symposia Proceedings, 1996, 457, 187.	0.1	0
103	Structure, Mechanical Properties, and Dynamic Fracture in Nanophase Silicon Nitride via Parallel Molecular Dynamics. Materials Research Society Symposia Proceedings, 1996, 457, 205.	0.1	0
104	Early Stages of Sintering of Si3N4 Nanoclusters Via Parallel Molecular Dynamics. Materials Research Society Symposia Proceedings, 1995, 408, 181.	0.1	0
105	Sintering of Amorphous Si3N4 Nanoclusters: A Molecular Dynamics Study of Stress Analysis. Materials Research Society Symposia Proceedings, 1995, 408, 573.	0.1	1
106	Dense plasma as a statistical ensemble of Coulomb clusters: A new paradigm. AIP Conference Proceedings, 1995, , .	0.3	0
107	Short-range screening potentials for classical Coulomb fluids: Monte Carlo sampling and cluster model studies. Physical Review E, 1994, 50, 2977-2985.	0.8	9
108	Binding energy, microstructure, and shell model of Coulomb clusters. Physical Review A, 1993, 48, 1339-1344.	1.0	46

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109	Collisional equipartition rate for a magnetized pure electron plasma. Physics of Fluids B, 1992, 4, 1156-1166.	1.7	78
110	Molecular Dynamics Study on Dielectric Properties of Silicon Oxynitride: Composition and Microstructure Dependence. Key Engineering Materials, 0, 485, 287-290.	0.4	0
111	Optimization of Molecular Characteristics via Machine Learning Based on Continuous Representation of Molecules. Materials Science Forum, 0, 1016, 1492-1496.	0.3	0