## Takashi Kodama

List of Publications by Year in descending order

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TAKASHI KODAMA

#	Article	lF	CITATIONS
1	Mechanically Strong, Scalable, Mesoporous Xerogels of Nanocellulose Featuring Light Permeability, Thermal Insulation, and Flame Self-Extinction. ACS Nano, 2021, 15, 1436-1444.	7.3	59
2	Thermal conduction through individual cellulose nanofibers. Applied Physics Letters, 2021, 118, .	1.5	14
3	Anisotropic thermal conductivity measurement of organic thin film with bidirectional 3ï‰ method. Review of Scientific Instruments, 2021, 92, 034902.	0.6	6
4	Scalable monolayer-functionalized nanointerface for thermal conductivity enhancement in copper/diamond composite. Carbon, 2021, 175, 299-306.	5.4	17
5	Modulation of Interfacial Thermal Transport between Fumed Silica Nanoparticles by Surface Chemical Functionalization for Advanced Thermal Insulation. ACS Applied Materials & Interfaces, 2021, 13, 17404-17411.	4.0	12
6	Weaker bonding can give larger thermal conductance at highly mismatched interfaces. Science Advances, 2021, 7, .	4.7	35
7	Thermal expansion characterization of thin films using harmonic Joule heating combined with atomic force microscopy. Applied Physics Letters, 2021, 118, .	1.5	6
8	Tailoring the surface morphology of carbon nanotube forests by plasma etching: A parametric study. Carbon, 2021, 180, 204-214.	5.4	14
9	Ultra-high-performance heat spreader based on a graphite architecture with three-dimensional thermal routing. Cell Reports Physical Science, 2021, 2, 100621.	2.8	3
10	Fine-tuning of the surface porosity of micropatterned polyethersulfone membranes prepared by phase separation micromolding. Polymer Journal, 2020, 52, 397-403.	1.3	10
11	Scalable Multi-nanostructured Silicon for Room-Temperature Thermoelectrics. ACS Applied Energy Materials, 2019, 2, 7083-7091.	2.5	17
12	Enhancing Thermal Boundary Conductance of Graphite–Metal Interface by Triazine-Based Molecular Bonding. ACS Applied Materials & Interfaces, 2019, 11, 37295-37301.	4.0	13
13	Revealing How Topography of Surface Microstructures Alters Capillary Spreading. Scientific Reports, 2019, 9, 7787.	1.6	14
14	Parametric Model to Analyze the Components of the Thermal Conductivity of a Cellulose-Nanofibril Aerogel. Physical Review Applied, 2019, 11, .	1.5	29
15	One-directional thermal transport in densely aligned single-wall carbon nanotube films. Applied Physics Letters, 2019, 115, .	1.5	23
16	Impact of thermally dead volume on phonon conduction along silicon nanoladders. Nanoscale, 2018, 10, 11117-11122.	2.8	20
17	Phonon conduction in silicon nanobeams. Applied Physics Letters, 2017, 110, .	1.5	22
18	Modulation of thermal and thermoelectric transport in individual carbon nanotubes by fullerene encapsulation. Nature Materials, 2017, 16, 892-897.	13.3	99

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19	Phonon Conduction in Silicon Nanobeam Labyrinths. Scientific Reports, 2017, 7, 6233.	1.6	28
20	Thermal Conduction across Metal–Dielectric Sidewall Interfaces. ACS Applied Materials & Interfaces, 2017, 9, 30100-30106.	4.0	9
21	Quasi-ballistic Electronic Thermal Conduction in Metal Inverse Opals. Nano Letters, 2016, 16, 2754-2761.	4.5	72
22	Thermal characterization and analysis of microliter liquid volumes using the three-omega method. Review of Scientific Instruments, 2015, 86, 024901.	0.6	14
23	Thermal Conduction in Vertically Aligned Copper Nanowire Arrays and Composites. ACS Applied Materials & Interfaces, 2015, 7, 19251-19259.	4.0	99
24	Thermal conduction in nanoporous copper inverse opal films. , 2014, , .		11
25	Phonon thermal conduction in periodically porous silicon nanobeams. , 2014, , .		1
26	Improved Thermal Interfaces of GaN–Diamond Composite Substrates for HEMT Applications. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2013, 3, 79-85.	1.4	91
27	Towards Thermal Characterization of Pico-Liter Volumes Using the 3Omega Method. , 2013, , .		1
28	Electrothermal phenomena in zinc oxide nanowires and contacts. Applied Physics Letters, 2012, 100, 163105.	1.5	13
29	Phonon Conduction in Periodically Porous Silicon Nanobridges. Nanoscale and Microscale Thermophysical Engineering, 2012, 16, 199-219.	1.4	54
30	The rational design of a synthetic polymer nanoparticle that neutralizes a toxic peptide in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 33-38.	3.3	179
31	Thermoelectric Characterization of Ge2Sb2Te5 Films for Phase-Change Memory. , 2012, , .		Ο
32	Phase purity and the thermoelectric properties of Ge2Sb2Te5 films down to 25 nm thickness. Journal of Applied Physics, 2012, 112, .	1.1	49
33	Nanoscale Manipulation, Heating, and Welding of Nanowires. Journal of Heat Transfer, 2012, 134, .	1.2	0
34	In-plane thermal conductivity measurement on nanoscale conductive materials with on-substrate device configuration. , 2012, , .		3
35	Thermal characterization of GaN-on-diamond substrates for HEMT applications. , 2012, , .		12
36	Electrical and Thermal Conduction in Atomic Layer Deposition Nanobridges Down to 7 nm Thickness. Nano Letters, 2012, 12, 683-686.	4.5	64

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37	Impact of Annealing on the Thermoelectric Properties of Ge2Sb2Te5 Films. Materials Research Society Symposia Proceedings, 2012, 1490, 223-228.	0.1	0
38	Phonon Dominated Heat Conduction Normal to Mo/Si Multilayers with Period below 10 nm. Nano Letters, 2012, 12, 3121-3126.	4.5	58
39	Impact of nanotube density and alignment on the elastic modulus near the top and base surfaces of aligned multi-walled carbon nanotube films. Carbon, 2012, 50, 3789-3798.	5.4	45
40	Electron-Phonon Coupled Two-Dimensional Heat Transfer in Nanoscale Metal/Dielectric Multilayers. , 2012, , .		0
41	Recognition, Neutralization, and Clearance of Target Peptides in the Bloodstream of Living Mice by Molecularly Imprinted Polymer Nanoparticles: A Plastic Antibody. Journal of the American Chemical Society, 2010, 132, 6644-6645.	6.6	437
42	Affinity Purification of Multifunctional Polymer Nanoparticles. Journal of the American Chemical Society, 2010, 132, 13648-13650.	6.6	94
43	Design of Synthetic Polymer Nanoparticles that Capture and Neutralize a Toxic Peptide. Small, 2009, 5, 1562-1568.	5.2	98
44	Unfolding study of native bacteriorhodopsin under acidic condition. Ultramicroscopy, 2009, 109, 948-951.	0.8	1
45	Heat Conduction through a DNAâ^ Gold Composite. Nano Letters, 2009, 9, 2005-2009.	4.5	45
46	Peptide Imprinted Polymer Nanoparticles: A Plastic Antibody. Journal of the American Chemical Society, 2008, 130, 15242-15243.	6.6	377
47	Development of apertureless nearâ€field scanning optical microscope tips for tipâ€enhanced Raman spectroscopy. Journal of Microscopy, 2008, 229, 240-246.	0.8	10
48	Direct Detection of the Solvent Molecules between Solid Surfaces with Simultaneous Adhesion Force Measurement. Journal of Physical Chemistry C, 2007, 111, 7098-7104.	1.5	2
49	Nonmetallic Conduction Property of a DNA Templated Gold Nanowire. , 2007, , .		Ο
50	Spectroscopic Measurement of Nano Scale Region with the Application of Mechanical Perturbation. Seibutsu Butsuri, 2007, 47, 044-048.	0.0	0
51	Development of new apertureless near-field scanning optical microscope tip using finite-differential time-domain calculation. Chemical Physics Letters, 2006, 432, 553-557.	1.2	1
52	Surface enhanced Raman scattering imaging of carbon onions with a silver nanoparticle immobilized tip. Applied Physics Letters, 2006, 89, 223107.	1.5	5
53	Observation of the destruction of biomolecules under compression force. Ultramicroscopy, 2005, 105, 189-195.	0.8	13
54	Mechanical perturbation-induced fluorescence change of green fluorescent protein. Applied Physics Letters, 2005, 86, 043901.	1.5	33

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55	Development of Confocal Laser Scanning Microscope/Atomic Force Microscope System for Force Curve Measurement. Japanese Journal of Applied Physics, 2004, 43, 4580-4583.	0.8	10
56	Atomic force microscope equipped with confocal laser scanning microscope for the spectroscopic measurement of the contact area in liquid. Chemical Physics Letters, 2004, 385, 507-511.	1.2	13
57	Dynamics of the fluorescence properties of pyrene residues appended to oligonucleotide hybridization probes. Nucleic Acids Symposium Series, 2000, 44, 51-52.	0.3	4