

Takashi Kodama

List of Publications by Year in descending order

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57
papers

2,359
citations

304368

22
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223531

46
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57
all docs

57
docs citations

57
times ranked

2982
citing authors

#	ARTICLE	IF	CITATIONS
1	Recognition, Neutralization, and Clearance of Target Peptides in the Bloodstream of Living Mice by Molecularly Imprinted Polymer Nanoparticles: A Plastic Antibody. <i>Journal of the American Chemical Society</i> , 2010, 132, 6644-6645.	6.6	437
2	Peptide Imprinted Polymer Nanoparticles: A Plastic Antibody. <i>Journal of the American Chemical Society</i> , 2008, 130, 15242-15243.	6.6	377
3	The rational design of a synthetic polymer nanoparticle that neutralizes a toxic peptide in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 33-38.	3.3	179
4	Thermal Conduction in Vertically Aligned Copper Nanowire Arrays and Composites. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19251-19259.	4.0	99
5	Modulation of thermal and thermoelectric transport in individual carbon nanotubes by fullerene encapsulation. <i>Nature Materials</i> , 2017, 16, 892-897.	13.3	99
6	Design of Synthetic Polymer Nanoparticles that Capture and Neutralize a Toxic Peptide. <i>Small</i> , 2009, 5, 1562-1568.	5.2	98
7	Affinity Purification of Multifunctional Polymer Nanoparticles. <i>Journal of the American Chemical Society</i> , 2010, 132, 13648-13650.	6.6	94
8	Improved Thermal Interfaces of GaN/Diamond Composite Substrates for HEMT Applications. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2013, 3, 79-85.	1.4	91
9	Quasi-ballistic Electronic Thermal Conduction in Metal Inverse Opals. <i>Nano Letters</i> , 2016, 16, 2754-2761.	4.5	72
10	Electrical and Thermal Conduction in Atomic Layer Deposition Nanobridges Down to 7 nm Thickness. <i>Nano Letters</i> , 2012, 12, 683-686.	4.5	64
11	Mechanically Strong, Scalable, Mesoporous Xerogels of Nanocellulose Featuring Light Permeability, Thermal Insulation, and Flame Self-Extinction. <i>ACS Nano</i> , 2021, 15, 1436-1444.	7.3	59
12	Phonon Dominated Heat Conduction Normal to Mo/Si Multilayers with Period below 10 nm. <i>Nano Letters</i> , 2012, 12, 3121-3126.	4.5	58
13	Phonon Conduction in Periodically Porous Silicon Nanobridges. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2012, 16, 199-219.	1.4	54
14	Phase purity and the thermoelectric properties of Ge ₂ Sb ₂ Te ₅ films down to 25 nm thickness. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	49
15	Heat Conduction through a DNA-Gold Composite. <i>Nano Letters</i> , 2009, 9, 2005-2009.	4.5	45
16	Impact of nanotube density and alignment on the elastic modulus near the top and base surfaces of aligned multi-walled carbon nanotube films. <i>Carbon</i> , 2012, 50, 3789-3798.	5.4	45
17	Weaker bonding can give larger thermal conductance at highly mismatched interfaces. <i>Science Advances</i> , 2021, 7, .	4.7	35
18	Mechanical perturbation-induced fluorescence change of green fluorescent protein. <i>Applied Physics Letters</i> , 2005, 86, 043901.	1.5	33

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19	Parametric Model to Analyze the Components of the Thermal Conductivity of a Cellulose-Nanofibril Aerogel. <i>Physical Review Applied</i> , 2019, 11, .	1.5	29
20	Phonon Conduction in Silicon Nanobeam Labyrinths. <i>Scientific Reports</i> , 2017, 7, 6233.	1.6	28
21	One-directional thermal transport in densely aligned single-wall carbon nanotube films. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	23
22	Phonon conduction in silicon nanobeams. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	22
23	Impact of thermally dead volume on phonon conduction along silicon nanoladders. <i>Nanoscale</i> , 2018, 10, 11117-11122.	2.8	20
24	Scalable Multi-nanostructured Silicon for Room-Temperature Thermoelectrics. <i>ACS Applied Energy Materials</i> , 2019, 2, 7083-7091.	2.5	17
25	Scalable monolayer-functionalized nanointerface for thermal conductivity enhancement in copper/diamond composite. <i>Carbon</i> , 2021, 175, 299-306.	5.4	17
26	Thermal characterization and analysis of microliter liquid volumes using the three-omega method. <i>Review of Scientific Instruments</i> , 2015, 86, 024901.	0.6	14
27	Revealing How Topography of Surface Microstructures Alters Capillary Spreading. <i>Scientific Reports</i> , 2019, 9, 7787.	1.6	14
28	Thermal conduction through individual cellulose nanofibers. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	14
29	Tailoring the surface morphology of carbon nanotube forests by plasma etching: A parametric study. <i>Carbon</i> , 2021, 180, 204-214.	5.4	14
30	Atomic force microscope equipped with confocal laser scanning microscope for the spectroscopic measurement of the contact area in liquid. <i>Chemical Physics Letters</i> , 2004, 385, 507-511.	1.2	13
31	Observation of the destruction of biomolecules under compression force. <i>Ultramicroscopy</i> , 2005, 105, 189-195.	0.8	13
32	Electrothermal phenomena in zinc oxide nanowires and contacts. <i>Applied Physics Letters</i> , 2012, 100, 163105.	1.5	13
33	Enhancing Thermal Boundary Conductance of Graphiteâ€“Metal Interface by Triazine-Based Molecular Bonding. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37295-37301.	4.0	13
34	Thermal characterization of GaN-on-diamond substrates for HEMT applications. , 2012, , .		12
35	Modulation of Interfacial Thermal Transport between Fumed Silica Nanoparticles by Surface Chemical Functionalization for Advanced Thermal Insulation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 17404-17411.	4.0	12
36	Thermal conduction in nanoporous copper inverse opal films. , 2014, , .		11

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37	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
38	Development of apertureless near-field scanning optical microscope tips for tip-enhanced Raman spectroscopy. Journal of Microscopy, 2008, 229, 240-246.	0.8	10
39	Fine-tuning of the surface porosity of micropatterned polyethersulfone membranes prepared by phase separation micromolding. Polymer Journal, 2020, 52, 397-403.	1.3	10
40	Thermal Conduction across Metal-Dielectric Sidewall Interfaces. ACS Applied Materials & Interfaces, 2017, 9, 30100-30106.	4.0	9
41	Anisotropic thermal conductivity measurement of organic thin film with bidirectional 3 Ω method. Review of Scientific Instruments, 2021, 92, 034902.	0.6	6
42	Thermal expansion characterization of thin films using harmonic Joule heating combined with atomic force microscopy. Applied Physics Letters, 2021, 118, .	1.5	6
43	Surface enhanced Raman scattering imaging of carbon onions with a silver nanoparticle immobilized tip. Applied Physics Letters, 2006, 89, 223107.	1.5	5
44	Dynamics of the fluorescence properties of pyrene residues appended to oligonucleotide hybridization probes. Nucleic Acids Symposium Series, 2000, 44, 51-52.	0.3	4
45	In-plane thermal conductivity measurement on nanoscale conductive materials with on-substrate device configuration. , 2012, , .		3
46	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
47	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
48	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
49	Unfolding study of native bacteriorhodopsin under acidic condition. Ultramicroscopy, 2009, 109, 948-951.	0.8	1
50	Towards Thermal Characterization of Pico-Liter Volumes Using the 3 Ω Method. , 2013, , .		1
51	Phonon thermal conduction in periodically porous silicon nanobeams. , 2014, , .		1
52	Thermoelectric Characterization of Ge ₂ Sb ₂ Te ₅ Films for Phase-Change Memory. , 2012, , .		0
53	Nanoscale Manipulation, Heating, and Welding of Nanowires. Journal of Heat Transfer, 2012, 134, .	1.2	0
54	Impact of Annealing on the Thermoelectric Properties of Ge ₂ Sb ₂ Te ₅ Films. Materials Research Society Symposia Proceedings, 2012, 1490, 223-228.	0.1	0

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55	Nonmetallic Conduction Property of a DNA Templated Gold Nanowire. , 2007, , .		0
56	Spectroscopic Measurement of Nano Scale Region with the Application of Mechanical Perturbation. Seibutsu Butsuri, 2007, 47, 044-048.	0.0	0
57	Electron-Phonon Coupled Two-Dimensional Heat Transfer in Nanoscale Metal/Dielectric Multilayers. , 2012, , .		0