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1529	Modifying Thermal Transport in Colloidal Nanocrystal Solids with Surface Chemistry.		
1528	Thermal conductivity and specific heat of glass ceramics. 1991 , 44, 12226-12232		23
1527	The thermal conductivity of isotopically enriched polycrystalline diamond films. 1991 , 69, 8122-8125		43
1526	Is there a Lower Limit to the Thermal Conductivity of Solids?. 1991 , 234, 27		2
1525	Effect of Crystallization on Thermal Conductivity and Specific Heat of Two Corning Glass-Ceramics. 1991 , 74, 564-568		6
1524	Glasslike thermal properties and isotope effect in $Rb_{1-x}(NH_4)_xH_2PO_4$ mixed crystals. 1991 , 67, 93-96		14
1523	Heat capacity and thermal diffusivity of a glass sample. 1992 , 45, 157-160		17
1522	Lower limit to the thermal conductivity of disordered crystals. 1992 , 46, 6131-6140		1596
1521	Thermal diffusivity measurement of CVD diamond film using a step heating technique. 1993 , 14, 285-295		4

1520	Thermal conductivity of diamond between 170 and 1200 K and the isotope effect. 1993 , 47, 14850-14856	201
1519	Specific heat and thermal conductivity of solid fullerenes. 1993 , 259, 1145-8	84
1518	Determination of thermal conductivity and specific heat by a combined 3ω decay technique. <i>Review of Scientific Instruments</i> , 1993 , 64, 760-765	1.7 23
1517	Digital frequency tripling circuit for third harmonic detection by lock-in amplifiers. <i>Review of Scientific Instruments</i> , 1994 , 65, 971-973	1.7 1
1516	Heat capacity measurement of dielectric solids using a linear surface heater: Application to ferroelectrics. <i>Review of Scientific Instruments</i> , 1994 , 65, 966-970	1.7 29
1515	Thermal conductivity of a-Si:H thin films. 1994 , 50, 6077-6081	410
1514	Local and Global Relaxations in Glass Forming Materials. 1994 , 11-54	58
1513	Thermal conductivity and specific heat of boron carbides. 1994 , 203, 67-75	24
1512	Thermal conductivity of sputtered and evaporated SiO ₂ and TiO ₂ optical coatings. 1994 , 65, 309-311	119
1511	Dielectric and thermal studies on the high temperature phases of (NH ₄) ₂ SO ₄ . 1994 , 159, 215-220	5
1510	A new method for the evaluation of thermal conductivity and thermal diffusivity from transient hot strip measurements. 1995 , 16, 557-565	11
1509	Low-temperature glasslike properties in (NaCl) _{1-x} (NaCN) _x . 1995 , 51, 8086-8101	15
1508	Heat transport in micron thick a-Si: H films. 1995 , 71, 677-682	7
1507	Thermal conductivity of sputtered oxide films. 1995 , 52, 253-257	201
1506	Thermal measurements on diamond and related materials. 1995 , 4, 809-819	34
1505	The 3ω technique for measuring dynamic specific heat and thermal conductivity of a liquid or solid. <i>Review of Scientific Instruments</i> , 1996 , 67, 29-35	1.7 89
1504	Mechanical and Thermophysical Properties of Thin Film Materials for Mems: Techniques and Devices. 1996 , 444, 39	19
1503	Review of the state-of-the-art measurements for and the phenomenon of anomalously low thermal conductivities of dielectric thin films. 1996 ,	3

1502	Pulsed laser deposition and physical properties of carbon nitride thin films. 1996 , 25, 57-61		44
1501	Thermal Conductivity of CVD Diamond: Methods and Results. 1996 , 154, 351-369		14
1500	A new method for measuring thermal conductivity of thin films. <i>Review of Scientific Instruments</i> , 1997 , 68, 3828-3834	1.7	41
1499	A steady-state high-temperature apparatus for measuring thermal conductivity of ceramics. <i>Review of Scientific Instruments</i> , 1997 , 68, 2822-2829	1.7	30
1498	Measurement and Characterization Techniques for Thermoelectric Materials. 1997 , 478, 25		19
1497	Synthesis of New Thermoelectrics Using Modulated Elemental Reactants. 1997 , 478, 211		0
1496	Damped thermoelectric waves.		
1495	Systematic Study of New Rare Earth Element-Iron-Antimony Skutterudites Synthesized Using Multilayer Precursors. 1997 , 36, 4270-4274		42
1494	Temperature-dependent thermal conductivity of porous silicon. 1997 , 30, 2911-2916		191
1493	Measurement of the thermal properties of thin dielectric films by a probe technique with periodic heating. I. Theory underlying the method. 1997 , 39, 675-680		5
1492	Heat transport in thin dielectric films. 1997 , 81, 2590-2595		553
1491	Progress in experimental techniques for dynamic calorimetry. 1997 , 304-305, 67-98		47
1490	Classical temperature-modulated calorimetry: A review. 1997 , 304-305, 1-26		68
1489	Specific heat spectroscopy: Origins, status and applications of the 3 ω method. 1997 , 304-305, 51-66		54
1488	Heat conduction in alloy-based superlattices.		4
1487	Measurement of thermal properties of thin dielectric films and anisotropic solids by ac hot-strip method. 1998 , 208-209, 279-292		6
1486	Thermal conductivity of α -Al ₂ O ₃ and β -Al ₂ O ₃ wear-resistant coatings. 1998 , 83, 5783-5786		96
1485	Investigations of the low- and high-frequency response of ω -sensors used in dynamic heat capacity measurements. 1998 , 9, 1873-1885		17

1484	Thermal Conductivity of Fe-Doped Cosb3 Skutterudites. 1998 , 545, 339	12
1483	Interface Effect on the Transverse Thermal Conductivity of SiO2 Films Deposited on Silicon. 1998 , 516, 51	3
1482	Thermoelectric Properties of Two Ternary Tellurides. 1998 , 545, 391	
1481	Anisotropic Thermal Conductivity of A Si/Ge Superlattice. 1998 , 545, 473	12
1480	Plane-wave spectrum approach for the AC thermal analysis of vertical thermal resistance on sample surface. 1999 , 32, 2100-2107	1
1479	Interconnect thermal modeling for determining design limits on current density. 1999 ,	1
1478	Thermal-conductivity measurements of GaAs/AlAs superlattices using a picosecond optical pump-and-probe technique. 1999 , 59, 8105-8113	360
1477	Thermoelectric properties of Tl2SnTe5 and Tl2GeTe5. 1999 , 74, 3794-3796	64
1476	Process-dependent thermal transport properties of silicon-dioxide films deposited using low-pressure chemical vapor deposition. 1999 , 85, 7130-7134	55
1475	Measurement of the thermal conductivity anisotropy in polyimide films. 1999 , 8, 180-191	89
1474	Thermal characterization of power devices by scanning thermal microscopy techniques. 1999 , 39, 1149-1152	13
1473	Thermal characterization of anisotropic thin dielectric films using harmonic Joule heating. 1999 , 339, 160-164	75
1472	Measurement of thermal conductivity and diffusivity of single and multilayer membranes. 1999 , 76, 323-328	33
1471	Influence of OrderDisorder Transition on Thermal Conductivity of Solids. 1999 , 10, 2087-2098	22
1470	Thermophysical properties of thermal barrier coatings. 1999 , 120-121, 89-95	70
1469	HEAT CONDUCTION IN NOVEL ELECTRONIC FILMS. 1999 , 29, 261-293	129
1468	Application of the three omega thermal conductivity measurement method to a film on a substrate of finite thickness. 1999 , 86, 3959-3963	146
1467	Thermal conductivity of Si/Ge superlattices.	

1466	A thermal van der Pauw test structure.	3
1465	Thermal conductivity of indium phosphide based superlattices.	1
1464	Parallel thermal conductance technique for measuring thermal conductivity of smaller thermoelectric materials.	
1463	Quantitative thermal conductivity measurements with nanometre resolution. 1999 , 32, L13-L17	90
1462	Thermal conductivity study of porous low K dielectric materials. 1999 , 565, 87	4
1461	Thermal conductivity of symmetrically strained Si/Ge superlattices. 2000 , 28, 199-206	209
1460	Correlation of scanning thermal microscopy and near-field cathodoluminescence analyses on a blue GaN light emitting device. 2000 , 40, 1383-1388	4
1459	Experimental study of a surfactant-assisted SiGe graded layer and a symmetrically strained Si/Ge superlattice for thermoelectric applications. 2000 , 369, 121-125	8
1458	Thermal Conductivity of a Glass: I. Measurement by the GlassMetal Contact. 2000 , 26, 606-611	24
1457	Thermal properties. 2000 , 491-534	
1456	Thermal Conductivity Of Bi/Sb Superlattice. 2000 , 626, 911	
1455	Characterization of New Materials in A Four-Sample Thermoelectric Measurement System. 2000 , 626, 861	1
1454	THERMAL CONDUCTIVITY OF INDIUM PHOSPHIDE-BASED SUPERLATTICES. 2000 , 4, 197-203	13
1453	Grain-size-dependent thermal conductivity of nanocrystalline yttria-stabilized zirconia films grown by metal-organic chemical vapor deposition. 2000 , 77, 1155-1157	158
1452	Thermoelectric, transport, and magnetic properties of the polaron semiconductor $\text{Fe}_x\text{Cr}_{3-x}\text{Se}_4$. 2000 , 62, 10185-10193	44
1451	Low Dielectric Constant Materials for ULSI Interconnects. 2000 , 30, 645-680	311
1450	A thermal van der Pauw test structure. 2000 , 13, 159-166	30
1449	Interconnect thermal modeling for accurate simulation of circuit timing and reliability. 2000 , 19, 197-205	56

1448	Thermal conductivity of amorphous carbon thin films. 2000 , 88, 6317-6320		136
1447	Interface thermal conductance and the thermal conductivity of multilayer thin films. 2000 , 32, 135-142		76
1446	Measurement and Characterization. 2001 , 91-109		4
1445	Micro-thermal analysis: techniques and applications. 2001 , 34, R23-R53		217
1444	Phonon Transport in Low-Dimensional Structures. 2001 , 71, 203-259		80
1443	Characterization of cross-plane thermoelectric properties of Si/Ge superlattices.		1
1442	Data reduction in 3D method for thin-film thermal conductivity determination. <i>Review of Scientific Instruments</i> , 2001 , 72, 2139-2147	1.7	344
1441	Chapter 2 Overview of measurement and characterization techniques for thermoelectric materials. 2001 , 69, 25-49		13
1440	Microsensors for Automotive Applications - Metrology and Test. 2001 , 687, 1		3
1439	Cross-Plane Thermoelectric Properties in Si/Ge Superlattices. 2001 , 691, 1		1
1438	Thermal Diffusivity Mapping of Friction Surface Using Photo-Thermal Technique. 2001 , 123, 785-790		3
1437	Low thermal conductivity vapor deposited zirconia microstructures. 2001 , 49, 973-983		125
1436	Advanced ac calorimetric technique for thermal diffusivity measurement at cryogenic temperatures. 2001 , 41, 373-378		4
1435	Description of removable sample mount apparatus for rapid thermal conductivity measurements. 2001 , 41, 725-731		86
1434	Growth of Ge quantum dot superlattices for thermoelectric applications. 2001 , 227-228, 1111-1115		23
1433	High performance thermoelectric Tl9BiTe6 with an extremely low thermal conductivity. 2001 , 86, 4350-3		195
1432	In-plane thermoelectric properties of Si/Ge superlattice.		3
1431	Photo-Acoustic Measurement of Thermal Conductivity of Thin Films and Bulk Materials. 2001 , 123, 138-144		68

1430	Development of a thermal diffusivity measurement system for metal thin films using a picosecond thermoreflectance technique. 2001 , 12, 2064-2073		91
1429	3̄method for specific heat and thermal conductivity measurements. <i>Review of Scientific Instruments</i> , 2001 , 72, 2996-3003	1.7	319
1428	Dynamic measurement access, a new technique for fast thermal conductivity measurement. <i>Review of Scientific Instruments</i> , 2001 , 72, 3937-3939	1.7	8
1427	Description of the parallel thermal conductance technique for the measurement of the thermal conductivity of small diameter samples. <i>Review of Scientific Instruments</i> , 2001 , 72, 1770	1.7	68
1426	THERMAL CONDUCTIVITY OF InAs/ AlSb SUPERLATTICES. 2001 , 5, 225-231		59
1425	Phonon scattering and internal friction in dielectric and metallic films at low temperatures. 2001 , 63,		8
1424	SiGeC/Si superlattice microcoolers. 2001 , 78, 1580-1582		196
1423	Processing dependent thermal conductivity of nanoporous silica xerogel films. 2002 , 91, 3275-3281		54
1422	Thermal conductivity of Si/SiGe and SiGe/SiGe superlattices. 2002 , 80, 1737-1739		276
1421	Numerical simulation of the 3̄method for measuring the thermal conductivity. 2002 , 91, 4733-4738		65
1420	COMPLEMENTARY SURFACE INVESTIGATION OF DIAMOND BY SCANNING THERMAL MICROSCOPY AND SCANNING NEAR-FIELD CATHODOLUMINESCENCE. 2002 , 16, 895-899		2
1419	COMPARISON OF THERMAL CONDUCTIVITIES ON ABRADED AND UNTREATED CVD-DIAMOND OBTAINED BY SCANNING THERMAL MICROSCOPY. 2002 , 16, 922-926		2
1418	Periodic Heating of an Anisotropic Superlattice With Thermal Boundary Resistance. 2002 , 285		
1417	Nanowire Composite Thermoelectric Devices. 2002 , 7		1
1416	The Effects of Defects and Acoustic Impedance Mismatch on Heat Conduction in SiGe Based Superlattices. 2002 , 19		1
1415	Finite Element Analysis of Nanoscale Thermal Measurements of Superlattices. 2002 , 739, 681		0
1414	Determination of Thermal Conductivity of Biomaterials in the Temperature Range 233̄13K Using a Tiny Detector Made of a Self-Heated Thermistor. 2002 , 1, 141-147		22
1413	Measurement of thermal conductivity of silicon dioxide thin films using a 3̄method. 2002 , 91, 9772		263

1412	Thermal conductivity and sound velocities of hydrogen-silsesquioxane low-k dielectrics. 2002 , 65,	56
1411	Thermal conductivity of periodically microporous silicon membranes.	
1410	Heat Transfer in Nanostructures for Solid-State Energy Conversion. 2002 , 124, 242-252	188
1409	Thermal conductivity of $\text{AlAs}_{0.07}\text{Sb}_{0.93}$ and $\text{Al}_{0.9}\text{Ga}_{0.1}\text{As}_{0.07}\text{Sb}_{0.93}$ alloys and $(\text{AlAs})_1/(\text{AlSb})_{11}$ digital-alloy superlattices. 2002 , 92, 4994-4998	51
1408	Simultaneous measurements of Seebeck coefficient and thermal conductivity across superlattice. 2002 , 80, 1758-1760	93
1407	Tomographic imaging and scanning thermal microscopy: thermal impedance tomography. 2002 , 385, 19-32	11
1406	Thermal conductivity of amorphous silicon thin films. 2002 , 45, 2439-2447	53
1405	Thermometry and Thermal Transport in Micro/Nanoscale Solid-State Devices and Structures. 2002 , 124, 223-241	476
1404	Thermal conductivity of ultra low-k dielectrics. 2003 , 70, 280-284	48
1403	Thermal conductance of epitaxial interfaces. 2003 , 67,	355
1402	Anisotropic thermal conductivity of nano-porous silica film.	0
1401	A dual-thermistor probe for absolute measurement of thermal diffusivity and thermal conductivity by the heat pulse method. 2003 , 14, 1396-1401	24
1400	Measuring Thermal and Thermoelectric Properties of One-Dimensional Nanostructures Using a Microfabricated Device. 2003 , 125, 881-888	557
1399	Scanning Thermal Wave Microscopy (STWM). 2003 , 125, 156-163	35
1398	Thermal Conductivity of GaN Grown on Silicon Substrates. 2003 , 798, 113	4
1397	Thermal and Electrical Transport Measurements of Single-Walled Carbon Nanotube Strands. 2003 , 788, 5111	
1396	Thermal effusivity measurements of insulating liquids using microsized hot strip probes. <i>Review of Scientific Instruments</i> , 2003 , 74, 4542-4548	1.7 14
1395	Low-energy lattice vibrations of porous silica glass. 2003 , 68,	17

1394	High-precision thermal conductivity measurements as a probe of polymer/nanoparticle interfaces. 2003 , 94, 6785-6788		95
1393	Thermal Conduction In Solids. 2003 ,		1
1392	Characterization of low dielectric constant materials. 2003 , 37-76		1
1391	Vibrational States In Disordered Solids. 2003 ,		
1390	Thermal contact conductance of adhered microcantilevers. 2004 , 95, 2102-2108		29
1389	Thermal fatigue testing of thin metal films. <i>Review of Scientific Instruments</i> , 2004 , 75, 4997-5004	1.7	77
1388	Micron-scale apparatus for measurements of thermodiffusion in liquids. <i>Review of Scientific Instruments</i> , 2004 , 75, 2368-2372	1.7	26
1387	Measurement Techniques and Considerations for Determining Thermal Conductivity of Bulk Materials. 2004 , 187-203		12
1386	Determining Anisotropic Film Thermal Properties Through Harmonic Surface Heating With a Gaussian Laser Beam: A Theoretical Consideration. 2004 , 126, 305-311		3
1385	Experimental Techniques for Thin-Film Thermal Conductivity Characterization. 2004 , 205-237		10
1384	A novel technique for in-plane thermal conductivity measurements of electrically conductive interconnects and nanostructures.		
1383	On-line extraction for thermal conductivity of surface-micromachined polysilicon thin films.		2
1382	Quantitative dynamic near-field microscopy of thermal conductivity. 2004 , 37, 952-963		40
1381	Thermal conductivity measurement under hydrostatic pressure using the 3μ method. <i>Review of Scientific Instruments</i> , 2004 , 75, 4578-4584	1.7	41
1380	Anisotropic thermal conductivity of nanoporous silica film. 2004 , 51, 20-27		40
1379	Scanning near field thermal microscopy on a micromachined thin membrane. 2004 , 35, 465-476		8
1378	Thermal Conductivity of Chalcogenide As ₂ S ₃ Thin Films. 2004 , 25, 1505-1517		4
1377	Thermal Properties of Maleated Polyethylene/Layered Silicate Nanocomposites. 2004 , 25, 1585-1595		27

1376	Applications of temperature phase measurements to IC testing. 2004 , 44, 95-103	7
1375	Thermal parameters identification of micrometric layers of microelectronic devices by thermoreflectance microscopy. 2004 , 35, 811-816	19
1374	Tunable AC thermal anemometry. 2004 , 35, 325-338	5
1373	Effects of ion beam assisted deposition, beam sharing and pivoting in EB-PVD processing of graded thermal barrier coatings. 2004 , 177-178, 158-164	10
1372	Systems-level optimization of low-temperature thermoelectric waste heat recovery.	4
1371	Measurement of the thermal conductivity of undoped polysilicon thin film over 300K to 400K.	1
1370	Experimental Studies on Thermal Conductivity of Thin Films and Superlattices. 2004 , 167-186	1
1369	Thermal Conductivity. 2004 ,	345
1368	Temperature dependence of thermal conductivity of Al _x Ga _{1-x} N thin films measured by the differential 3 ω technique. 2004 , 85, 5230-5232	98
1367	Scanning near field thermal microscopy on a micromachined thin membrane. 2004 ,	2
1366	Thermal conductivity of nanoporous bismuth thin films. 2004 , 84, 1883-1885	72
1365	Thermal conductivity of periodic microporous silicon films. 2004 , 84, 687-689	187
1364	Thermal Conductivity and Heat Conduction in Nanostructures: Modeling, Experiments, and Applications. 2004 ,	
1363	. 2004 , 13, 505-513	118
1362	Tunable AC thermal anemometry. 2004 ,	
1361	Thermophysical properties of maleated poly-ethylene/layered silicate nanocomposites.	
1360	Steady-Periodic Green $\bar{\omega}$ Functions and Thermal-Measurement Applications in Rectangular Coordinates. 2005 , 459	
1359	Material Characterization. 2005 , 69-135	2

1358	Dedicated near-field microscopies for electronic materials and devices (Plenary Paper). 2005 ,		1
1357	Improvements of on-membrane method for thin film thermal conductivity and emissivity measurements. 2005 , 117, 203-210		25
1356	MeV Si ion bombardments of thermoelectric Bi ₂ Te ₃ /Sb ₂ Te ₃ multilayer thin films for reducing thermal conductivity. 2005 , 241, 568-572		5
1355	Thermal diffusivity measurement of low-k dielectric thin film by temperature wave analysis. 2005 , 432, 216-221		13
1354	Rapid thermal conductivity measurement with a hot disk sensor. 2005 , 436, 122-129		265
1353	Measurement of thermal conductivity of thin films with a Si-N membrane-based microcalorimeter. <i>Review of Scientific Instruments</i> , 2005 , 76, 024901	1.7	43
1352	Thermo-electric characterization of APCVD PolySi/sub 0.7/Ge/sub 0.3/ for IC-compatible fabrication of integrated lateral Peltier elements. 2005 , 52, 1014-1025		28
1351	Heat dissipation in high-power GaN electronics on thermally resistive substrates. 2005 , 52, 1683-1688		20
1350	Local flow speed measurement using tunable ac thermal anemometry. 2005 , 19, 1449-1459		2
1349	Measurements of the Thermal Effusivity of a Drop-Size Liquid Using the Pulse Transient Hot-Strip Technique. 2005 , 26, 1803-1813		3
1348	. 2005 ,		23
1347	Measurement of Thermophysical Properties of Thin Film Shape Memory Alloys Using the 3-Omega Method. 2005 , 537		
1346	400 element ErAs:InGaAs/InGaAlAs superlattice power generator. 2005 , 886, 1		1
1345	Thermal transport measurements in multi-wall carbon nanotube strands using the 3/spl omega/ method.		3
1344	1 Ω and 3 Ω methods for measurements of thermal properties. <i>Review of Scientific Instruments</i> , 2005 , 76, 124902	1.7	178
1343	An Experimental Method for Measuring the Response of a Target to the Thermal Environment of the Fusion Reaction Chamber. 2005 ,		
1342	Analysis on thermal properties of tin doped indium oxide films by picosecond thermoreflectance measurement. 2005 , 23, 1180-1186		61
1341	Thermal characterization of liquids and polymer thin films using a microcalorimeter. 2005 , 86, 034101		33

1340	Anisotropic thermal properties of nanochanneled alumina templates. 2005 , 97, 084303	47
1339	Thermoelectric characterization of sputter-deposited BiTe bilayer thin films. 2005 , 23, 559-563	8
1338	Cross-plane Thermoreflectance Imaging of Thermoelectric Elements. 2005 , 886, 1	
1337	Thermal design considerations in the packaging of GaN based light emitting diodes. 2005 ,	3
1336	Joule Heating and Thermal Conductivity Determination of Nanoscale Metallic Thin Films and Interconnects. 2005 , 851	
1335	A Rapid Method to Measure Thermal Conductivity of Dielectric Thin Films: Thermal Resistance Method. 2005 ,	
1334	Thermal characterization and analysis of phase change random access memory. 2005 , 98, 013520	59
1333	Measurement of the in-plane thermal conductivity of single crystals by the parallel thermal conductance technique. 2005 ,	1
1332	ErAs/InGaAs superlattice Seebeck coefficient. 2005 ,	
1331	Thermal characterization of vertically-oriented carbon nanotubes on silicon.	
1330	Role of nanostructures in reducing thermal conductivity below alloy limit in crystalline solids. 2005 ,	2
1329	Thermal conduction in Al _x Ga _{1-x} N alloys and thin films. 2005 , 97, 073710	185
1328	Precise Thermal Characterization of Confined Nanocrystalline Silicon by a 3 μ m Method. 2005 , 44, 4084-4087	27
1327	Measurement of thermal conductivity of individual multiwalled carbon nanotubes by the 3- μ m method. 2005 , 87, 013108	137
1326	A nondestructive technique for determining thermal properties of thermal barrier coatings. 2005 , 97, 013520	40
1325	Electrical and Thermal Conductivity of GeBi Quantum Dot Superlattices. 2005 , 152, G432	40
1324	Thermal transport properties of thin films of small molecule organic semiconductors. 2005 , 87, 241908	54
1323	A practical extension of the 3 μ m method to multilayer structures. <i>Review of Scientific Instruments</i> , 2005 , 76, 053901	1.7 64

1322 Thermal properties of multi-walled carbon nanotube-reinforced polypropylene composites.

1321 Unusually High Thermal Conductivity in Carbon Nanotubes. **2006**, 227-265 10

1320 ErAs:InGaAsInGaAlAs superlattice thin-film power generator array. **2006**, 88, 113502 35

1319 Characterization of Mechanical and Thermal Properties Using Ultrafast Optical Metrology. **2006**, 31, 607-613 64

1318 Scanning Thermal Microscopy. 181-238 17

1317 Thermal Characterization of the High-Thermal-Conductivity Dielectrics. **2006**, 69-118 1

1316 Generalised Theory for the Self-Heating 3omega Technique and Thermal Characterization of Single-Wall Carbon Nanotube Bundles. **2006**, 0

1315 Temperature Dependent Thermal Conductivity of Nanorod-in-Fluorocarbon Nanofluids. **2006**,

1314 Thermal conductivity of nanoparticle suspensions. **2006**, 99, 084308 217

1313 Room temperature thermal conductance of alkanedithiol self-assembled monolayers. **2006**, 89, 173113 142

1312 Thermal and electrical characterization of nanocomposites for thermoelectrics. 4

1311 Thermal conductivity enhancement in water-in-FC72 nanoemulsion fluids. **2006**, 88, 261914 54

1310 An online test microstructure for thermal conductivity of surface-micromachined polysilicon thin films. **2006**, 6, 428-433 12

1309 MEMS test structure for measuring thermal conductivity of thin films. **2006**, 6

1308 Simultaneous electro-thermal test method for pyroelectric microsensors.

1307 Temperature-dependent thermal conductivity of nanorod-based nanofluids. **2006**, 89, 083111 93

1306 Extending the 3E method to the MHz range for thermal conductivity measurements of diamond thin films. **2006**, 15, 389-393 26

1305 Accurate dependence of gallium nitride thermal conductivity on dislocation density. **2006**, 89, 092123 143

1304	Measuring methods applicable to Thermoelectric Materials: Fraunhofer-IPM capabilities and services. 2006,	5
1303	Steady-Periodic Green's Functions and Thermal-Measurement Applications in Rectangular Coordinates. 2006, 128, 709-716	20
1302	Thermal Conductivity of InGaAs/InGaAsP Superlattices measured with 3 ω Method. 2006,	
1301	. 2006, 94, 1613-1638	163
1300	Thermal conductivity reduction and thermoelectric figure of merit increase by embedding nanoparticles in crystalline semiconductors. 2006, 96, 045901	680
1299	Thermal Conductivity Measurement of Aluminum Oxide Nanofluids Using the 3-Omega Method. 2006, 343	1
1298	A New Type of Nanoengineered Heat Transfer Fluids: Nanoemulsion Fluids. 2006, 333	
1297	Characterization of the temperature oscillation technique to measure the thermal conductivity of fluids. 2006, 49, 2950-2956	15
1296	Nanoscale Bi ₂ Te ₃ /Sb ₂ Te ₃ multilayer thin film materials for reduced thermal conductivity. 2006, 242, 201-204	21
1295	Simultaneous thermal conductivity and diffusivity sensing in liquids using a micromachined device. 2006, 130-131, 62-67	38
1294	Thermal conductivity of diamond-like carbon films. 2006, 89, 161921	178
1293	Thermophysical Properties of Multi-Walled Carbon Nanotube-Reinforced Polypropylene Composites. 2006, 27, 152-160	18
1292	Thermal Diffusivity of Metallic Thin Films: Au, Sn, Mo, and Al/Ti Alloy. 2006, 27, 1551-1563	8
1291	Thermal conductivity, dislocation density and GaN device design. 2006, 40, 338-342	37
1290	Thermal conductivity measurement of InGaAs/InGaAsP superlattice thin films. 2006, 51, 2931-2936	10
1289	3-Omega Measurements of Vertically Oriented Carbon Nanotubes on Silicon. 2006, 128, 1109-1113	193
1288	Novel nanoscale thermal property imaging technique: The 2 ω method. II. Demonstration and comparison. 2006, 24, 2405	24
1287	Thermal Transport Properties of Various Thin Films for MEMS Applications. 2006, 326-328, 293-296	

1286	Determination of Thermal Conductivity of Amorphous Silicon Thin Films via Non-Contacting Optical Probing. 2006 , 326-328, 689-692		
1285	Improvement on Thermoelectric Characteristics of Layered Nanostructure by Ion Beam Bombardment. 2006 , 929, 1		4
1284	Rapid contactless thermometry with submilli-Kelvin resolution. <i>Review of Scientific Instruments</i> , 2006 , 77, 074901	1.7	
1283	Thermal characterization of single-wall carbon nanotube bundles using the self-heating 3Ω technique. 2006 , 100, 124314		43
1282	Thermal conductivity of AlN-diamond particulate composite films on silicon. 2006 , 24, 895-899		4
1281	Cross-plane lattice and electronic thermal conductivities of ErAs:InGaAsInGaAlAs superlattices. 2006 , 88, 242107		74
1280	Thermal conductivity of SrBi ₂ Nb ₂ O ₉ ferroelectric thin films. 2006 , 89, 092904		3
1279	Thermal characterization of IV-VI superlattice MBE films. 2006 ,		
1278	Determination of thermal conductivity distribution from internal temperature distribution measurements. <i>Review of Scientific Instruments</i> , 2006 , 77, 064904	1.7	11
1277	Thermal conduction in nanocrystalline diamond films: Effects of the grain boundary scattering and nitrogen doping. 2006 , 89, 171915		71
1276	Thermal Characterization of Tungsten Thin Films by Pulsed Photothermal Radiometry. 2006 , 10, 333-344		16
1275	Ion Bombardment Improvement on Thermoelectric Properties of Multilayered Bi ₂ Te ₃ /Sb ₂ Te ₃ Deposited by Magnetron Sputtering. 2007 , 1020, 1		
1274	Cross-plan SiBiGe superlattice acoustic and thermal properties measurement by picosecond ultrasonics. 2007 , 101, 013705		15
1273	Model-Based Data Analysis for Thin-Film Thermal Conductivity Measurement Using Microelectrothermal Test Structures. 2007 , 639		2
1272	Application of hybrid sphere/carbon nanotube particles in nanofluids. 2007 , 18, 105701		125
1271	Thermopower profiling of a silicon p-n junction. 2007 , 90, 043107		7
1270	Compound semiconductor bonded to AlN heat spreader substrate using graded intermediate layer. 2007 , 25, 536-542		
1269	Microscale and Nanoscale Thermal Characterization Techniques. 2007 ,		16

1268	Thermoelectric properties of n-type nanocrystalline bismuth-telluride-based thin films deposited by flash evaporation. 2007 , 101, 074301		82
1267	Application of the three omega method for the thermal conductivity measurement of polyaniline. 2007 , 101, 083507		51
1266	Cross-plane Seebeck coefficient of ErAs:InGaAs/InGaAlAs superlattices. 2007 , 101, 034502		52
1265	3omega method to measure thermal properties of electrically conducting small-volume liquid. <i>Review of Scientific Instruments</i> , 2007 , 78, 084902	1.7	49
1264	In-plane thermal conductivity of disordered layered WSe ₂ and (W) _x (WSe ₂) _y superlattice films. 2007 , 91, 171912		64
1263	A hot-wire probe for thermal measurements of nanowires and nanotubes inside a transmission electron microscope. <i>Review of Scientific Instruments</i> , 2007 , 78, 104903	1.7	42
1262	Bulk-Micromachined Test Structure for Fast and Reliable Determination of the Lateral Thermal Conductivity of Thin Films. 2007 , 16, 675-683		18
1261	Low temperature characterization of heated microcantilevers. 2007 , 101, 094504		16
1260	Heat Transfer Investigations of a Nano-Porous Silicon Film Deposited on a Flexible Cyclic Olefin Copolymers Substrate. 2007 , 364-366, 931-936		1
1259	Characterization of Anisotropic and Irregularly-Shaped Materials by High-Sensitive Thermal Conductivity Measurements. 2007 , 124-126, 1641-1644		12
1258	Laser Thermoreflectance Measurement for Evaluating Heat Capacity and Interface Heat Resistance of Low-k Films. 2007 , 990, 1		
1257	Thermoelectric Micro-Cooler of Bismuth Telluride Thin Films. 2007 , 335		
1256	Simultaneous Electrothermal Test Method for Pyroelectric Microsensors. 2007 , 129, 504-511		6
1255	Thermal Conductivity of Cubic Mesoporous Silica Thin Films. 2007 , 657		
1254	IR detectors with adaptive responsivity and wavelength. 2007 ,		
1253	Thermal Characterization of Emisshield. 2007 ,		
1252	An accurate low-frequency model for the 3 ω method. 2007 , 101, 104510		12
1251	Four-probe measurements of the in-plane thermoelectric properties of nanofilms. <i>Review of Scientific Instruments</i> , 2007 , 78, 034901	1.7	96

1250	Thermopower Profiling Across a Silicon P-N Junction Through the 2D Signal Measurement of AC Current-Heated Tip-Sample Nano-Contact. 2007 ,	
1249	. 2007 , 16, 861-871	9
1248	Testing Interface Thermal Resistance. 2007 ,	3
1247	Frequency-Dependent Electrical and Thermal Response of Heated Atomic Force Microscope Cantilevers. 2007 , 16, 213-222	40
1246	Measurement of the thermal conductance of silicon nanowires at low temperature. 2007 , 101, 016104	67
1245	Temperature dependence of thermodiffusion in aqueous suspensions of charged nanoparticles. 2007 , 23, 9221-8	104
1244	Effect of layer thickness on thermoelectric properties of multilayered Si _{1-x} Gex/Si after bombardment by 5 MeV Si ions. 2007 , 201, 8531-8533	13
1243	Simultaneous determination of thermal conductivities of thin film and substrate by extending 3D method to wide-frequency range. 2007 , 253, 9024-9029	9
1242	A method for accurate thermal conductivity measurements of small samples at ultra-low temperatures. 2007 , 47, 61-63	3
1241	Multifrequential AC modeling of the SThM probe behavior. 2007 , 46, 980-988	18
1240	. 2007 , 54, 3276-3284	24
1239	Thin-Film Thermal Conductivity Measurement Using Microelectrothermal Test Structures and Finite-Element-Model-Based Data Analysis. 2007 , 16, 1269-1275	52
1238	Characterization of electronic materials and devices by scanning near-field microscopy. 2007 , 87, 443-449	8
1237	Thermal-Conductivity and Thermal-Diffusivity Measurements of Nanofluids by 3D Method and Mechanism Analysis of Heat Transport. 2007 , 28, 1255-1268	83
1236	Silicon shadow mask fabrication for patterned metal deposition with microscale dimensions using a novel corner compensation scheme. 2007 , 140, 168-175	12
1235	Improvement on thermoelectric properties of multilayered Si _{1-x} Gex/Si by ion beam bombardment. 2008 , 266, 73-78	13
1234	Investigation of the natural convection boundary condition in microfabricated structures. 2008 , 47, 820-824	65
1233	Extension of the 3D method to measure the thermal conductivity of thin films without a reference sample. 2008 , 142, 232-236	30

1232	Analysis of thermal parameters and factors acting on thermal conduction of low-k films. 2008 , 40, 1328-1332	6
1231	Withdrawn: Analysis of thermal parameters and factors acting on thermal conduction of low-k films. 2008 , 40, 1362-1366	1
1230	Determination of in-plane thermal conductivity of $\text{Na}_x\text{Co}_2\text{O}_4$ single crystals via a parallel thermal conductance (PTC) technique. 2008 , 205, 1152-1156	4
1229	Thermal conductivity measurement and sedimentation detection of aluminum oxide nanofluids by using the 3ω method. 2008 , 29, 1456-1461	154
1228	Advanced thermal failure analysis and reliability investigations \square Industrial demands and related limitations. 2008 , 48, 1273-1278	5
1227	$3(\omega)$ hot wire method for micro-heat transfer measurements: From anemometry to scanning thermal microscopy (SThM). 2008 , 153, 343-348	16
1226	AC hot wire measurement of thermophysical properties of nanofluids with 3ω method. 2008 , 153, 349-352	20
1225	Lock-in thermographic investigation of probe-sample interaction in scanning thermal microscopy (SThM). 2008 , 153, 427-430	3
1224	EVALUATION METHODS FOR PROPERTIES OF NANOSTRUCTURED BODY. 2008 , 317-383	2
1223	Superior thermal conductivity of single-layer graphene. 2008 , 8, 902-7	9908
1222	Harnessing optical forces in integrated photonic circuits. 2008 , 456, 480-4	369
1221	Reducing thermal conductivity of crystalline solids at high temperature using embedded nanostructures. 2008 , 8, 2097-9	70
1220	Thermoelectric properties of $\text{In}_x\text{Ga}_{1-x}\text{N}$ alloys. 2008 , 92, 042112	91
1219	Monte Carlo simulation of cross-plane thermal conductivity of nanostructured porous silicon films. 2008 , 103, 053502	27
1218	Synthesis and thermal characterization of phase-changeable indium/polyalphaolefin nanofluids. 2008 , 92, 243104	58
1217	Electro-Thermal Theory of Intermodulation Distortion in Lossy Microwave Components. 2008 , 56, 2717-2725	76
1216	Natural Convective Heat Transfer of Water-in-FC72 Nanoemulsion Fluids. 2008 ,	
1215	Theoretical consideration of the parameter space for thermal conductivity measurements of thin diamond films. 2008 , 43, 423-439	1

1214	Influence of upper layer on measuring thermal conductivity of multilayer thin films using differential 3- Ω method. 2008 , 517, 933-936	17
1213	Encyclopedia of Microfluidics and Nanofluidics. 2008 , 1781-1781	
1212	Temperature Dependence of Thermal Conductivity for Silicon Dioxide. 2008 ,	0
1211	Size Effect on the Thermal Conductivity of Thin Metallic Films Investigated by Scanning Joule Expansion Microscopy. 2008 , 130,	30
1210	Measurement of the Thermal Conductivity and Heat Capacity of Freestanding Shape Memory Thin Films Using the 3 Ω Method. 2008 , 130,	89
1209	Flush-Mounted Steady-Periodic Heated Film With Application to Shear-Stress Measurement. 2008 , 130,	3
1208	Microscale and Nanoscale Thermal Characterization Techniques. 2008 , 130,	88
1207	Thermal transport properties of nanocrystalline Bi ₂ Te ₃ thin films prepared by sputter deposition. 2008 , 104, 104312	26
1206	Low thermal conductivity in nanoscale layered materials synthesized by the method of modulated elemental reactants. 2008 , 104, 033533	72
1205	Thermal conductivity of Si/SiGe superlattice films. 2008 , 104, 114301	43
1204	A semianalytical solution for the 3 Ω method including the effect of heater thermal conduction. 2008 , 103, 113517	11
1203	Thermophysical characteristics of water-in-FC72 nanoemulsion fluids. 2008 , 92, 013118	17
1202	Thermal conductivity of ultrathin tetrahedral amorphous carbon films. 2008 , 93, 043115	61
1201	Gigahertz photothermal effect in silicon waveguides. 2008 , 93, 213106	4
1200	Thermal conductivity reduction in oxygen-deficient strontium titanates. 2008 , 92, 191911	92
1199	In situ 3 Ω techniques for measuring thermal conductivity of phase-change materials. <i>Review of Scientific Instruments</i> , 2008 , 79, 026108	1.7 14
1198	Process development and material characterization of polycrystalline Bi ₂ Te ₃ , PbTe, and PbSnSeTe thin films on silicon for millimeter-scale thermoelectric generators. 2008 , 26, 739-744	10
1197	Thermal conductivity of semi-insulating, p-type, and n-type GaN films on sapphire. 2008 , 26, 375-379	14

1196	Real-time thermal characterization of 12 nl fluid samples in a microchannel. <i>Review of Scientific Instruments</i> , 2008 , 79, 064901	1.7	22
1195	A novel thermal sensor to monitor the gas-liquid phase interface in microfluidic channels. 2008 ,		
1194	Effect of zirconium(IV) propoxide concentration on the thermophysical properties of hybrid organic-inorganic films. 2008 , 104, 013528		19
1193	Measurement of Thin Film Isotropic and Anisotropic Thermal Conductivity Using 3D and Thermoreflectance Imaging. 2008 ,		1
1192	Thermal conductivity of nitrogenated ultrananocrystalline diamond films on silicon. 2008 , 103, 083538		50
1191	Lower limit to phonon thermal conductivity of disordered, layered solids. 2009 , 94, 181901		18
1190	In-plane thermal conductivity of nanoscale polyaniline thin films. 2009 , 95, 033113		27
1189	Thermostat for high temperature and transient characterization of thin film thermoelectric materials. <i>Review of Scientific Instruments</i> , 2009 , 80, 025101	1.7	15
1188	Thermoelectric power generator module of 16x16 Bi2Te3 and 0.6% ErAs:(InGaAs)1x(InAlAs)x segmented elements. 2009 , 95, 083503		33
1187	Application of network identification by deconvolution method to the thermal analysis of the pump-probe transient thermoreflectance signal. <i>Review of Scientific Instruments</i> , 2009 , 80, 074903	1.7	15
1186	Thermal conductivity measurement of fluids using the 3omega method. <i>Review of Scientific Instruments</i> , 2009 , 80, 024901	1.7	25
1185	Thermal conductivity of micromachined low-stress silicon-nitride beams from 77 to 325 K. 2009 , 105, 043501		66
1184	Simultaneous measurements of the specific heat and thermal conductivity of suspended thin samples by transient electrothermal method. <i>Review of Scientific Instruments</i> , 2009 , 80, 064901	1.7	13
1183	Reliability testing of TIM materials with thermal transient measurements. 2009 ,		3
1182	Thermal Conductivity Measurements on Polycrystalline Silicon Microbridges Using the 3D Technique. 2009 , 131,		23
1181	Numerical approach for the theory of harmonic self-heating technique to measure thermophysical properties of suspended thin samples. 2009 , 27, 2280		6
1180	Thermoelectric Generators of Sequentially Deposited Si/Si+Ge Nano-layered Superlattices. 2009 , 1181, 29		
1179	Thermal Characterization of Emissshield (TM). 2009 , 46, 87-92		

1178	Thermal Conductivity of Cubic and Hexagonal Mesoporous Silica Thin Films. 2009 ,	2
1177	Thermal diffusivity of aromatic polyimide thin films by temperature wave analysis. 2009 , 105, 113506	61
1176	Frequency dependent enhancement of heat transport in a nanofluid with ZnO nanoparticles. 2009 , 20, 305706	8
1175	CCD-based thermorefectance microscopy: principles and applications. 2009 , 42, 143001	143
1174	Thermal conductivity measurements of thin film dielectrics on silicon for use in cantilever-based IR imaging. 2009 , 27, 1207	1
1173	Diminished thermal conductivity of Si/SiGe multilayers established through heating current frequency. 2009 , 1172, 77	
1172	Heat Transfer and Rheological Behaviour of Nanofluids A Review. 2009 , 135-177	36
1171	Analysis of the 3-omega method for thermal conductivity measurement. 2009 , 52, 2102-2109	69
1170	Application of the Three-Omega Method to Measurement of Thermal Conductivity and Thermal Diffusivity of Hydrogen Gas. 2009 , 30, 397-415	24
1169	End Effects in the Three-Omega Method to Measure Gas Thermal Conductivity. 2009 , 30, 833-850	9
1168	Thermal Conductivity and Viscosity Measurements of Water-Based TiO ₂ Nanofluids. 2009 , 30, 1213-1226	246
1167	A Numerical Simulation to Propose a Flash Method for In Situ Detection of the Thermal Diffusivity of Anisotropic Thin Film Materials. 2009 , 30, 1283-1299	3
1166	Temperature Modulation Measurements of the Thermal Properties of Nanosystems at Low Temperatures. 2009 , 154, 150-160	8
1165	Finite element analysis of temperature distribution of polycrystalline silicon thin film transistors under self-heating stress. 2009 , 4, 227-233	5
1164	Thermal Conductivity and Dimensionless Figure of Merit of Thermoelectric Rhodium Oxides Measured by a Modified Harman Method. 2009 , 38, 964-967	7
1163	Thermoelectric properties of MeV Si ion bombarded Bi ₂ Te ₃ /Sb ₂ Te ₃ superlattice deposited by magnetron sputtering. 2009 , 203, 2682-2686	12
1162	A micromachined AC thermal sensor for monitoring the liquid-gas interface in a microchannel. 2009 , 150, 40-45	5
1161	Front surface thermal property measurements of air plasma spray coatings. 2009 , 105, 083501	6

1160	Nanoengineered Materials for Thermoelectric Energy Conversion. 2009 , 225-299	28
1159	Thermal conductivities and phase transition temperatures of various phase-change materials measured by the 3 ω method. 2009 , 94, 101906	58
1158	Heat Transfer in Low Temperature Micro- and Nanosystems. 2009 , 537-567	3
1157	Thermal conductivity of cubic and hexagonal mesoporous silica thin films. 2009 , 106, 034910	60
1156	Phase-Change Nanofluids With Enhanced Thermophysical Properties. 2009 ,	1
1155	Thermal and Phase Change Characteristics of Self-Assembled PAO Nanoemulsion Fluids. 2009 ,	
1154	Development of a Novel Thermal Sensor to Monitor the Fluid State in a Microchannel. 2009 ,	
1153	Thermophysical Characteristics of Self-Assembled Ethanol/Polyalphaolefin Nanoemulsion Fluids. 2009 ,	0
1152	Superior Thermal Interfaces Made by Metallically Anchored Carbon Nanotube Arrays. 2009 ,	3
1151	Sound of carbon nanotube assemblies. 2009 , 106, 124311	40
1150	Thermal and Electrical Characterization of Materials for Phase-Change Memory Cells \square 2009 , 54, 1698-1701	39
1149	Advances in Transport Phenomena. 2009 ,	7
1148	Mesoscopic size effects on the thermal conductance of silicon nanowire. 2009 , 9, 1861-5	88
1147	Thermopower enhancement in nanowires via junction effects. 2009 , 9, 617-22	25
1146	100 Nanometer Scale Resistive Heater-Thermometer on a Silicon Cantilever. 2009 ,	1
1145	A 100 nanometer scale resistive heater-thermometer on a silicon cantilever. 2009 , 20, 095301	13
1144	Thermal conductivity of BCC-ordered mesoporous silica films. 2009 , 42, 125404	8
1143	A Procedure for Application of the Three-Omega Method to Measurement of Gas Thermal Conductivity. 2009 , 4, 146-158	5

1142	EXPERIMENTAL STUDY ON THERMAL CONDUCTIVITY AND VISCOSITY OF WATER BASED NANOFLUIDS. 2009 ,	2
1141	Analysing Transient Thermoreflectance Data Using Network Identification by Deconvolution. 2009 ,	
1140	Assessment of modulated hot wire method for thermophysical characterization of fluid and solid matrices charged with (nano)particle inclusions. 2010 , 214, 012135	
1139	Phase-dependent thermal conductivity of Ge ₁ Sb ₄ Te ₇ and N:Ge ₁ Sb ₄ Te ₇ for phase change memory applications. 2010 , 107, 033518	29
1138	Thermal Conductivity of Highly Ordered Amorphous and Crystalline Mesoporous Titania Thin Films. 2010 ,	
1137	Temperature dependent thermal conductivity of Si/SiC amorphous multilayer films. 2010 , 96, 093103	12
1136	Ultrafast thermoreflectance techniques for measuring thermal conductivity and interface thermal conductance of thin films. 2010 , 108, 094315	111
1135	Role of mechanical strain on thermal conductivity of nanoscale aluminum films. 2010 , 58, 6619-6627	33
1134	Thermal Conductivity Measurements on Challenging Samples by the 3 Omega Method. 2010 , 39, 1621-1626	20
1133	Analysis of Possibilities of Application of Nanofabricated Thermal Probes to Quantitative Thermal Measurements. 2010 , 31, 150-162	26
1132	Comparison of Thermal Conductivity and Thermal Boundary Conductance Sensitivities in Continuous-Wave and Ultrashort-Pulsed Thermoreflectance Analyses. 2010 , 31, 2380-2393	7
1131	In-plane thermal conductance measurement of one-dimensional nanostructures. 2010 , 99, 495-500	7
1130	Techniques for measuring the thermal conductivity of nanofluids: A review. 2010 , 14, 1913-1924	234
1129	Steady-periodic heating in parallel-plate microchannel flow with participating walls. 2010 , 53, 870-878	5
1128	The dual-mode heat flow meter technique: A versatile method for characterizing thermal conductivity. 2010 , 53, 5581-5586	11
1127	Multi-scale pore morphology in directed vapor deposited yttria-stabilized zirconia coatings. 2010 , 527, 6270-6282	8
1126	Nanostructured thermoelectrics. 2010 , 67, 19-63	433
1125	Length-scale effects on electrical and thermal transport in polyaniline thin films. 2010 , 11, 29-35	12

1124	Nano-thermal transport array: An instrument for combinatorial measurements of heat transfer in nanoscale films. 2010 , 518, 7093-7106		29
1123	Improved thermoelectric performance of highly-oriented nanocrystalline bismuth antimony telluride thin films. 2010 , 519, 619-624		50
1122	Thermal Conductivity Measurement of Graphene Exfoliated on Silicon Dioxide. 2010 ,		1
1121	Thermal conductivity and Seebeck coefficients of icosahedral boron arsenide films on silicon carbide. 2010 , 108, 084906		10
1120	A novel method for measuring thick film thermal conductivity. 2010 ,		
1119	High efficiency semimetal/semiconductor nanocomposite thermoelectric materials. 2010 , 108, 123702		70
1118	Development of absolute hot-wire anemometry by the 3omega method. <i>Review of Scientific Instruments</i> , 2010 , 81, 044901	1.7	9
1117	Low thermal conductivity of CsBiNb2O7 epitaxial layers. 2010 , 96, 121903		21
1116	Reduced thermal resistance of the silicon-synthetic diamond composite substrates at elevated temperatures. 2010 , 97, 031904		15
1115	Nanoscale range finding of subsurface structures by measuring the absolute phase lag of thermal wave. <i>Review of Scientific Instruments</i> , 2010 , 81, 053701	1.7	8
1114	Analytical solutions of the heat diffusion equation for 3D method geometry. 2010 , 108, 086104		11
1113	Thermal conductivity of pure silica MEL and MFI zeolite thin films. 2010 , 108, 044902		8
1112	Thermal characterization of the SiO2-Ge2Sb2Te5 interface from room temperature up to 400°C. 2010 , 107, 044314		55
1111	A Microelectrothermal Bridge Circuit With Complementary Parameter Estimation Algorithm for Direct Measurement of Thermal Conductivity. 2010 , 19, 265-272		1
1110	Development of a micro liquid-level sensor for harsh environments using a periodic heating technique. 2010 , 21, 105408		5
1109	Thermal- and Phase-Change Characteristics of Self-Assembled Ethanol/Polyalphaolefin Nanoemulsion Fluids. 2010 , 24, 208-211		11
1108	Thermoelectric properties of lattice-matched AlInN alloy grown by metal organic chemical vapor deposition. 2010 , 97, 112105		54
1107	In-Plane Thermal Conduction and Conductivity Anisotropy in Ge2Sb2Te5 Films for Phase Change Memory. 2010 ,		

1106	Ultra-Low Thermal Conductivity in Nanoscale Layered Oxides. 2010 , 132,	13
1105	Thickness-dependent thermal conductivity of encased graphene and ultrathin graphite. 2010 , 10, 3909-13	251
1104	Water-processable polymer-nanocrystal hybrids for thermoelectrics. 2010 , 10, 4664-7	407
1103	Thermal Properties and Heat Transport in Silicon-Based Nanostructures. 2010 , 105-154	3
1102	Nanoscale thermometry using point contact thermocouples. 2010 , 10, 2613-7	91
1101	Thermal Conductivity of Ordered Mesoporous Titania Films Made from Nanocrystalline Building Blocks and Sol-Gel Reagents. 2010 , 114, 12451-12458	38
1100	Non-Fourier 3-Omega Method for Thermal Conductivity Measurement. 2010 , 14, 123-136	7
1099	Structural effects on the lattice thermal conductivity of ternary antimony- and bismuth-containing chalcogenide semiconductors. 2010 , 96, 181905	80
1098	An Investigation on Thermal Conductivity and Viscosity of Water Based Nanofluids. 2010 , 139-162	17
1097	Phonon thermal conductivity suppression of bulk silicon nanowire composites for efficient thermoelectric conversion. 2010 , 18 Suppl 3, A467-76	12
1096	Cross-plane thermal conductivity of highly oriented nanocrystalline bismuth antimony telluride thin films. 2010 , 490, L44-L47	35
1095	Third-order intermodulation distortion due to self-heating in gold coplanar waveguides. 2010 ,	1
1094	Microelectrothermal Bridge Circuits for Thermal Conductivity Measurement of Metallic and Semiconducting Nanowires. 2010 ,	
1093	Optical Measurements of the Thermal Conductivity of Porous SiO ₂ Films. 2010 ,	
1092	Frequency-Domain Thermoreflectance Technique for Measuring Thermal Conductivity and Interface Thermal Conductance of Thin Films. 2010 ,	1
1091	AC Characterization of Heated Microcantilevers for Femtogram-Level Thermophysical Property Measurement. 2010 ,	
1090	Determining the Thermal Conductivity of W/B ₄ C Multilayer Structures Using Photothermal Deflection Spectroscopy. 2010 ,	1
1089	High temperature thermal conductivity of platinum microwire by 3 ω method. <i>Review of Scientific Instruments</i> , 2010 , 81, 114904	1.7 14

- 1088 An approach for an industrial method for the in-situ characterization of thermal interface materials. **2010,**
- 1087 Decoupled thermal resistances of phase change material and their impact on PCM devices. **2010,** 3
- 1086 Thermoreflectance imaging measurement of in-plane thermal properties of thin-film structures. **2010,**
- 1085 . **2010,**
- 1084 Universal and Solution-Processable Precursor to Bismuth Chalcogenide Thermoelectrics. **2010,** 22, 1943-1945 47
- 1083 Thermal conductivity measurement of thin films by a dc method. *Review of Scientific Instruments,* **2010,** 81, 114902 1.7 4
- 1082 Note: Three-omega method to measure thermal properties of subnanoliter liquid samples. *Review of Scientific Instruments,* **2010,** 81, 066104 1.7 10
- 1081 A novel technique for extraction of thermal conductivity in metallic thin films. **2011,**
- 1080 Micro-droplet detection and characterization using thermal responses. **2011,** 11, 2378-84 6
- 1079 A Modified 3-Omega Technique to Measure Thermal Conductivity in Liquids, Gases, and Powders. **2011,**
- 1078 Tunable Thermal Conductivity of TiO₂ Films of Close-Packed Nanoparticles. **2011,**
- 1077 Thermal conductivity of nanocrystalline silicon: importance of grain size and frequency-dependent mean free paths. **2011,** 11, 2206-13 329
- 1076 Optical Measurement of Thermal Conductivity Using Fiber Aligned Frequency Domain Thermoreflectance. **2011,** 133, 84
- 1075 Thermal Conductivity of Highly-Ordered Mesoporous Titania Thin Films from 30 to 320 K. **2011,** 115, 14606-14614 30
- 1074 Characterizations of Seebeck coefficients and thermoelectric figures of merit for AlInN alloys with various In-contents. **2011,** 109, 053706 55
- 1073 Orientation dependence of thermal conductivity in copper-graphene composites. **2011,** 110, 074901 34
- 1072 Thermal Conductivity Measurement of Graphene Exfoliated on Silicon Dioxide. **2011,** 133, 28
- 1071 Nanofluids and Their Properties. **2011,** 64, 47

1070	Nonlinear phenomena in multiferroic nanocapacitors: joule heating and electromechanical effects. 2011 , 5, 9104-12	65
1069	Enhancement of the thermoelectric properties in nanoscale and nanostructured materials. 2011 , 21, 4037-4055	275
1068	Thin-film aerogel thermal conductivity measurements via 3D 2011 , 357, 2960-2965	12
1067	Cross-plane thermal conductivity of a PbSnSe/PbSe superlattice material. 2011 , 99, 041903	13
1066	Colloquium: Heat flow and thermoelectricity in atomic and molecular junctions. 2011 , 83, 131-155	612
1065	11. Transport Phenomena. 2011 , 320-378	
1064	In-plane thermal conductivity determination through thermorefectance analysis and measurements. 2011 , 110, 084313	18
1063	Thermal Conductivity of Ordered Mesoporous Silicon Thin Films Made From Magnesium Reduction of Polymer Templated Silica. 2011 ,	
1062	High temperature thermoelectric properties of optimized InGaN. 2011 , 110, 123709	43
1061	Thermal conductivity anisotropy and grain structure in Ge ₂ Sb ₂ Te ₅ films. 2011 , 109, 084902	65
1060	Scanning thermal microscopy of individual silicon nanowires. 2011 , 109, 024302	69
1059	Thermal conductivity of high-temperature SiBCN thin films. 2011 , 206, 2030-2033	17
1058	Thermal conductivity of powder silica hollow spheres. 2011 , 526, 178-184	54
1057	Measurements of thermoelectric properties of silicon pillars. 2011 , 171, 48-48	9
1056	Passive Intermodulation Due to Self-Heating in Printed Transmission Lines. 2011 , 59, 311-322	24
1055	Thermal conductivity measurements using 1D and 3D methods revisited for voltage-driven setups. <i>Review of Scientific Instruments</i> , 2011 , 82, 074903	1.7 17
1054	Thermal properties of graphene and nanostructured carbon materials. 2011 , 10, 569-81	4185
1053	Drastic improvement of oxide thermoelectric performance using thermal and plasma treatments of the InGaZnO thin films grown by sputtering. 2011 , 59, 6743-6750	61

1052	Simultaneous Measurements of Thermal Properties of Individual Carbon Fibers. 2011 , 32, 974-983	8
1051	Experimental Reconstruction of Thermal Parameters in CNT Array Multilayer Structure. 2011 , 32, 1013-1024	7
1050	Thermal conductivity and thermal diffusivity of SiO ₂ nanopowder. 2011 , 13, 6887-6893	23
1049	Thermal conductivity measurement of liquids in a microfluidic device. 2011 , 10, 123-132	6
1048	Thermal Conductivity of Indium Graphene and Indium-Gallium Graphene Composites. 2011 , 40, 25-34	25
1047	Thermal conductivity of Gd ₂ Zr ₂ O ₇ thin films using thermal-impedance method. 2011 , 208, 1105-1110	7
1046	Thermal wave propagation in thin films on substrate: the time-harmonic thermal transfer function. 2011 , 248, 2128-2141	3
1045	Si and Si-Ge wires for thermoelectrics. 2011 , 8, 867-870	6
1044	Semimetal/semiconductor nanocomposites for thermoelectrics. 2011 , 23, 2377-83	30
1043	Ultra-low thermal conductivity thermal barrier coatings from recycled fly-ash cenospheres. 2011 , 59, 2556-2562	54
1042	Thermal conductivity of nanoscale polycrystalline ZnO thin films. 2011 , 406, 818-823	48
1041	Development of a micro thermal sensor for real-time monitoring of lubricating oil concentration. 2011 , 34, 374-382	6
1040	Electrical and thermal transport properties of electrically stressed BiSbTe nanocrystalline thin films. 2011 , 519, 4394-4399	13
1039	Tunable thermal conductivity in defect engineered nanowires at low temperatures. 2011 , 84,	28
1038	Thermal conductivity of bovine serum albumin: A tool to probe denaturation of protein. 2011 , 99, 163702	11
1037	The freestanding sensor-based 3 μ technique for measuring thermal conductivity of solids: principle and examination. <i>Review of Scientific Instruments</i> , 2011 , 82, 045106	1.7 26
1036	A generalized 3 μ method for extraction of thermal conductivity in thin films. 2011 , 109, 063502	9
1035	Thermal transport in AB superlattices. 2011 , 83,	5

1034	Note: Non-destructive measurement of thermal effusivity of a solid and liquid using a freestanding serpentine sensor-based 3D technique. <i>Review of Scientific Instruments</i> , 2011 , 82, 086110	1.7	13
1033	Characterization of steady and transient heating of interconnects - a review. 2011 ,		1
1032	High-temperature characteristics of Seebeck coefficients for AlInN alloys grown by metalorganic vapor phase epitaxy. 2011 , 110, 043710		36
1031	Thermal conductivity and refractive index of hafnia-alumina nanolaminates. 2011 , 110, 043526		23
1030	A simply designed cell for thermal conductivity measurements of low vapor-pressure liquids. <i>Review of Scientific Instruments</i> , 2011 , 82, 064906	1.7	2
1029	Influence of laser and thermal treatment on the thermal conductivity of In-graphene composites. 2011 , 110, 094907		5
1028	Nanostructured silicon for thermoelectric. 2011 ,		
1027	Thermoelectric Properties of Er-doped InGaN Alloys for High Temperature Applications. 2011 , 1325, 41		1
1026	Improved 3-omega measurement of thermal conductivity in liquid, gases, and powders using a metal-coated optical fiber. <i>Review of Scientific Instruments</i> , 2011 , 82, 064903	1.7	25
1025	Capturing the Cumulative Effect in the Pump Probe Transient Thermoreflectance Technique using Network Identification by Deconvolution Method. 2011 , 1347, 1		1
1024	Thermal Conductivity of Amorphous Indium Zinc Oxide Thin Films. 2011 , 1315, 1		2
1023	On errors in thermal conductivity measurements of suspended and supported nanowires using micro-thermometer devices from low to high temperatures. 2011 , 22, 015103		40
1022	High Temperature Thermal Characterization of Ge ₂ Sb ₂ Te ₅ for Phase Change Memory. 2011 ,		0
1021	Thermal Conductivity of Amorphous and Crystalline Mesoporous Titania Thin Films From 30 to 320 K. 2011 ,		
1020	Measuring the Thermal Conductivity of Porous, Transparent SiO ₂ Films With Time Domain Thermoreflectance. 2011 , 133,		41
1019	Thermal Transport in LEDs for Solid State Lighting. 2011 ,		
1018	Thickness and Temperature Dependent Thermal Conductivity of Nanoscale Tin Films. 2011 ,		
1017	Femtogram-Level Thermophysical Property Measurement of Polymeric Samples Using Heated Microcantilevers. 2011 ,		

1016	Measurement Methods and Applications for Thermophysical Properties at Micro/nanoscales. 2011 , 50, 11RC01		
1015	Thermal boundary resistance of copper phthalocyanine-metal interface. 2011 , 98, 093305		33
1014	2- and 3- μ m temperature measurement of a heated microcantilever. <i>Review of Scientific Instruments</i> , 2012 , 83, 074902	1.7	4
1013	Investigation of Thermal Conductivity of Nanofluids Using Different Experimental Methodologies. 2012 , 468-471, 2042-2046		1
1012	Bismuth nanowires with very low lattice thermal conductivity as revealed by the 3 μ m method. 2012 , 23, 495711		12
1011	Effects of heat treatment and contact resistance on the thermal conductivity of individual multiwalled carbon nanotubes using a Wollaston wire thermal probe. 2012 , 111, 054321		20
1010	Temperature dependent thermal conductivity of pure silica MEL and MFI zeolite thin films. 2012 , 111, 054910		6
1009	Contributions of electron and phonon transport to the thermal conductivity of GdFeCo and TbFeCo amorphous rare-earth transition-metal alloys. 2012 , 111, 103533		8
1008	Layer-by-layer thermal conductivities of the Group III nitride films in blue/green light emitting diodes. 2012 , 100, 201106		37
1007	Note: Development of a microfabricated sensor to measure thermal conductivity of picoliter scale liquid samples. <i>Review of Scientific Instruments</i> , 2012 , 83, 106102	1.7	11
1006	Highly sensitive thermal conductivity measurements of suspended membranes (SiN and diamond) using a 3 μ m Klein method. <i>Review of Scientific Instruments</i> , 2012 , 83, 054902	1.7	46
1005	Comprehensive characterization of thermophysical properties in solids using thermal impedance. 2012 , 112, 094901		2
1004	Enhanced thermal conductivity of polycrystalline aluminum nitride thin films by optimizing the interface structure. 2012 , 112, 044905		31
1003	Thermal conductance of ballistic point contacts. 2012 , 108, 075901		19
1002	Phase-controlled, heterodyne laser-induced transient grating measurements of thermal transport properties in opaque material. 2012 , 111, 023503		68
1001	Role of phonon anharmonicity in time-domain thermoreflectance measurements. 2012 , 101, 083108		11
1000	Visible photoluminescence in polycrystalline terbium doped aluminum nitride (Tb:AlN) ceramics with high thermal conductivity. 2012 , 101, 111903		22
999	Nonlinear effects in transient electrothermal characterization of anatase TiO ₂ nanowires. <i>Review of Scientific Instruments</i> , 2012 , 83, 044901	1.7	10

998	Thermal conductivity of solid deuterium by the $3\text{-}\omega$ method. 2012 , 112, 033504			1
997	Extraction of temperature dependent electrical resistivity and thermal conductivity from silicon microwires self-heated to melting temperature. 2012 , 112, 063527			7
996	Enhancing the thermal conductivity of polymer-assisted deposited Al ₂ O ₃ film by nitrogen doping. 2012 , 21, 126501			6
995	Local thermal conductivity of polycrystalline AlN ceramics measured by scanning thermal microscopy and complementary scanning electron microscopy techniques. 2012 , 21, 016501			0
994	Effects of Thermal Losses on the Heating of a Multifunctional LTCC Module for Atomic Clock Packaging. 2012 , 188, 244-249			1
993	Temperature Dependent Thermal Properties in LEDs for Solid State Lighting. 2012 ,			1
992	Thermal Conductivity of Single-Crystal Silicon Microbridges Measured by Electrical Resistance Thermometry and Time-Domain Thermoreflectance. 2012 ,			
991	Measurements of the Thermal Conductivity of Sub-Millimeter Biological Tissues. 2012 ,			1
990	Simultaneous Measurements of Thermal Conductivity and Seebeck Coefficients of Roughened Nanowire Arrays. 2012 , 1456, 19			
989	Thermal conduction properties of Mo/Si multilayers for extreme ultraviolet optics. 2012 , 112, 083504			16
988	A "2-omega" technique for measuring anisotropy of thermal conductivity. <i>Review of Scientific Instruments</i> , 2012 , 83, 124903	1.7		20
987	Modified data analysis for thermal conductivity measurements of polycrystalline silicon microbridges using a steady state Joule heating technique. <i>Review of Scientific Instruments</i> , 2012 , 83, 124904	1.7		2
986	Giant magneto-thermal conductivity in magnetic multilayers. 2012 , 48, 3031-3034			10
985	Interplay of point defects, biaxial strain, and thermal conductivity in homoepitaxial SrTiO ₃ thin films. 2012 , 100, 061904			18
984	Measurement of thermal conductivity of fluids using $3\text{-}\omega$ method in a suspended micro wire. 2012 , 21, 60-68			6
983	Characterization of nanostructured thermal interface materials [A review]. 2012 , 62, 2-11			127
982	Pyroelectric current measurements on PbZr _{0.2} Ti _{0.8} O ₃ epitaxial layers. 2012 , 112, 104106			29
981	Transient analysis based thermal characterization of die-die interfaces in 3D-ICs. 2012 ,			9

980	Thermal Properties of Copy Paper Sheets. 2012 , 30, 297-311	32
979	Surface-micromachined thermal conductivity detectors for gas sensing. 2012 ,	5
978	Gas thermal conductivity measurement based on the three-omega method. 2012 ,	0
977	Measurement of thermal impedance of GaN HEMTs using 3 method. 2012 , 48, 708	2
976	Two-color time-domain thermoreflectance of various metal transducers with an optical parametric oscillator. 2012 , 23, 055205	10
975	Effects of aggregation on the thermal conductivity of alumina/water nanofluids. 2012 , 542, 28-32	68
974	Analysis of the β -Omega method for substrates and thick films of anisotropic thermal conductivity. 2012 , 112, 043516	10
973	Characterization method for thermal interface materials imitating an in-situ environment. 2012 , 43, 661-668	14
972	Thermal conductivity of InAs quantum dot stacks using AlAs strain compensating layers on InP substrate. 2012 , 177, 882-886	2
971	Thermal properties of manganese-doped ZnO polycrystalline films. 2012 , 54, 1957-1960	
970	Lorentz force actuation of a heated atomic force microscope cantilever. 2012 , 23, 055709	34
969	Properties of thermal devices and sensors on porous silicon substrates. 2012 ,	2
968	Effects of coating thickness on thermal conductivities of alumina coatings and alumina/aluminum hybrid materials prepared using plasma electrolytic oxidation. 2012 , 207, 96-101	35
967	Evaluation methods for properties of nanostructured body. 2012 , 317-383	
966	Thermoelectric properties of lattice matched InAlN on semi-insulating GaN templates. 2012 , 112, 083716	11
965	Transition between ballistic and diffusive heat transport regimes in silicon materials. 2012 , 101, 113110	33
964	Thermal Conductivity of Ordered Mesoporous Nanocrystalline Silicon Thin Films Made from Magnesium Reduction of Polymer-Templated Silica. 2012 , 116, 12926-12933	32
963	Thermal conductivity of 1.3 μm InAs/GaAs quantum dot laser active material from chirp and 3D measurements. 2012 , 100, 082108	2

962	Thermal Conductivity of InAs/GaSb Type II Superlattice. 2012 , 41, 2322-2325	8
961	Molecular Dynamic Simulation of Thermal Conductivity of Electrically Insulating Thermal Nano-Oil. 2012 ,	1
960	Thermophysical Properties and Pool Boiling Characteristics of Water in Polyalphaolefin Nanoemulsion Fluids. 2012 ,	4
959	Anisotropic thermal conductivity measurement of carbon-fiber/epoxy composite materials. 2012 , 55, 6530-6537	52
958	Measuring the Thermal Conductivity of Flowing Liquid Samples Using the Three Omega Method. 2012 , 134,	5
957	Origins of thermal boundary conductance of interfaces involving organic semiconductors. 2012 , 112, 093503	35
956	Phonon dominated heat conduction normal to Mo/Si multilayers with period below 10 nm. 2012 , 12, 3121-6	47
955	Advances in Thermal Conductivity. 2012 , 42, 179-209	183
954	Thermal Characterization of SiC Amorphous Thin Films. 2012 , 33, 1000-1012	13
953	Minimum thermal conductivity considerations in aerogel thin films. 2012 , 111, 113532	39
952	Thermal Conductivity of Copper-Graphene Composite Films Synthesized by Electrochemical Deposition with Exfoliated Graphene Platelets. 2012 , 43, 316-324	113
951	Submicron Mapping of Thermal Conductivity of Thermoelectric Thin Films. 2012 , 41, 1332-1336	2
950	Highly Ordered Vertical Silicon Nanowire Array Composite Thin Films for Thermoelectric Devices. 2012 , 41, 887-894	70
949	Nanowire silicon as a material for thermoelectric energy conversion. 2012 , 18, 857-862	16
948	Measurement technique for the thermal properties of thin-film diaphragms embedded in calorimetric flow sensors. 2012 , 18, 973-981	4
947	Thermal conductivity of CuODI water nanofluids using 3- μ m measurement technique in a suspended micro-wire. 2012 , 40, 1-9	36
946	A Microprocessor-Based Novel Instrument for Temperature and Thermal Conductivity Measurements. 2012 , 36, 62-70	1
945	Structural and thermal characterization of La ₅ Ca ₉ Cu ₂₄ O ₄₁ thin films grown by pulsed laser deposition on (1 1 0) SrTiO ₃ substrates. 2012 , 520, 4613-4616	4

944	Effects of Laser Irradiation on the Thermal Conductivity and Viscosity of Aqueous Multiwalled Carbon Nanotube Suspensions. 2012 , 33, 121-134	
943	Multi-walled carbon nanotubes coated by multi-layer silica for improving thermal conductivity of polymer composites. 2013 , 113, 467-474	27
942	Thin-Film Thermal-Conductivity Measurement on Semi-Conducting Polymer Material Using the 3ω Technique. 2013 , 34, 820-830	14
941	Great enhancements in the thermoelectric power factor of BiSbTe nanostructured films with well-ordered interfaces. 2013 , 5, 7017-25	44
940	Interlayer thermal conductivity of rubrene measured by ac-calorimetry. 2013 , 114, 043508	11
939	Review on measurement techniques of transport properties of nanowires. 2013 , 5, 11526-44	67
938	Fabrication of Bi ₂ Te ₃ nanowire arrays and thermal conductivity measurement by 3ω scanning thermal microscopy. 2013 , 113, 054308	51
937	Role of Joule Heating on Current Saturation and Transient Behavior of Graphene Transistors. 2013 , 34, 166-168	61
936	Thermal Conductivity in Zeolites Studied by Non-equilibrium Molecular Dynamics Simulations. 2013 , 34, 1197-1213	8
935	Thermal conductivity of mixed nanofluids under controlled pH conditions. 2013 , 74, 63-71	16
934	Thermal conduction phenomena in carbon nanotubes and related nanostructured materials. 2013 , 85, 1295-1326	309
933	Thermal Conductivity Measurement Methods for SiGe Thermoelectric Materials. 2013 , 42, 2376-2380	8
932	Effect of stabilizer on dynamic thermal transport property of ZnO nanofluid. 2013 , 8, 125	6
931	Thermal conductivity of amorphous thin-film Al ₂ O ₃ on silicon. 2013 , 548, 225-229	2
930	Thermal conductivity of thermoelectric thick films prepared by electrodeposition. 2013 , 51, 75-83	10
929	Anisotropy of the thermal conductivity in GaAs/AlAs superlattices. 2013 , 13, 3973-7	66
928	Extending the 3ω method: thermal conductivity characterization of thin films. <i>Review of Scientific Instruments</i> , 2013 , 84, 084904	1.7 13
927	On the thermal characterization of solids by the relaxation photothermal technique. 2013 , 46, 2510-2513	

926	Measurement of thermal conductivity of fluid using single and dual wire transient techniques. 2013 , 46, 2746-2752	8
925	Si and SiGe Nanowires: Fabrication Process and Thermal Conductivity Measurement by Scanning Thermal Microscopy. 2013 , 117, 9025-9034	26
924	Role of surface-segregation-driven intermixing on the thermal transport through planar Si/Ge superlattices. 2013 , 111, 115901	88
923	Temperature-dependent thermal conductivities of 1D semiconducting nanowires via four-point-probe method. 2013 , 24, 495202	10
922	Thermal Methods. 2013 , 63-119	1
921	Reduction in thermal conductivity of Bi thin films with high-density ordered nanoscopic pores. 2013 , 8, 371	11
920	. 2013 , 23, 7201311-7201311	19
919	In-Plane Thermal Conductivity of Ultra-Thin Al ₂ O ₃ Films Measured by Micro-Raman. 2013 ,	1
918	Methodology for thermal diffusivity determination of metallic films at room temperature. 2013 ,	
917	Using pulsed and modulated photothermal radiometry to measure the thermal conductivity of thin films. 2013 , 556, 1-5	21
916	Measurement of Thermal Conductivity of Anisotropic SiC Crystal. 2013 , 34, 2334-2342	12
915	Design and Application of a Freestanding Sensor Based on Technique for Thermal-Conductivity Measurement of Solids, Liquids, and Nanopowders. 2013 , 34, 2261-2275	20
914	High temperature thermoelectric properties of strontium titanate thin films with oxygen vacancy and niobium doping. 2013 , 5, 7268-73	34
913	Specific heat measurement of thin suspended SiN membrane from 8 K to 300 K using the Klein method. <i>Review of Scientific Instruments</i> , 2013 , 84, 094902	1.7 14
912	Synthesis of self-ordered Sb ₂ Te ₂ films with atomically aligned Te layers and the effect of phonon scattering modulation. 2013 , 1, 7043	7
911	Investigation of heat transfer around microwire in air environment using method. 2013 , 64, 145-151	13
910	Coherent phonon-grain boundary scattering in silicon inverse opals. 2013 , 13, 618-24	33
909	Thermal conductance of nanosize semiconductor pillars. 2013 , 210, 161-167	5

908	Heat propagation dynamics in thin silicon layers. 2013 , 56, 495-500	8
907	Thermal conductivity measurement of amorphous Si/SiGe multilayer films by 3 omega method. 2013 , 66, 19-23	22
906	Anisotropic magnetothermal resistance in Ni nanowires. 2013 , 87,	14
905	Nanoscale heat transfer--from computation to experiment. 2013 , 15, 3389-412	177
904	Enhancement of thermoelectric figure of merit in binary-phased La _{0.3} Ce _{0.37} Fe ₃ CoS ₁₂ BbTe materials. 2013 , 558, 50-55	8
903	Effects of coherent ferroelastic domain walls on the thermal conductivity and Kapitza conductance in bismuth ferrite. 2013 , 102, 121903	42
902	Resistance thermometry-based picowatt-resolution heat-flow calorimeter. 2013 , 102, 163110	31
901	Thermal Measurements. 2013 , 247-264	
900	Thermal conductivity of thermoelectric Al-substituted ZnO thin films. 2013 , 7, 364-367	19
899	Ultralow thermal conductivity in polycrystalline CdSe thin films with controlled grain size. 2013 , 13, 2122-7	61
898	Misorientation dependence of Al ₂ O ₃ grain boundary thermal resistance. 2013 , 102, 034101	26
897	Effect of interfacial properties on polymer-nanocrystal thermoelectric transport. 2013 , 25, 1629-33	195
896	Volume Fraction of Graphene Platelets in Copper-Graphene Composites. 2013 , 44, 552-559	28
895	Rapid thermal conductivity measurements for combinatorial thin films. <i>Review of Scientific Instruments</i> , 2013 , 84, 053906	1.7 5
894	Thermal conductivity of a ZnO nanowire/silica aerogel nanocomposite. 2013 , 102, 193101	9
893	Thermal Conductivity of an Individual Bismuth Nanowire Covered with a Quartz Template Using a 3-Omega Technique. 2013 , 42, 2048-2055	10
892	Measurement of Thermoelectric Properties of Single Semiconductor Nanowires. 2013 , 42, 2409-2414	30
891	Evidence of percolation related power law behavior in the thermal conductivity of nanotube/polymer composites. 2013 , 102, 243105	23

890	Thermal conductivity tensor of semiconductor layers using two-wire 3-omega method. 2013 ,		2
889	Field-dependent thermal conductivity and Lorenz number in Co/Cu multilayers. 2013 , 87,		15
888	Monitoring protein denaturation using thermal conductivity probe. 2013 , 52, 353-7		11
887	Effect of Carbon Nanofibers on Thermal Conductivity of Carbon Fiber Reinforced Composites. 2013 , 56, 814-820		35
886	Thermal property microscopy with frequency domain thermoreflectance. <i>Review of Scientific Instruments</i> , 2013 , 84, 104904	1.7	71
885	Towards Thermal Characterization of Pico-Liter Volumes Using the 3Omega Method. 2013 ,		1
884	Thermoelectric properties of single crystal Sc _{1-x} Er _x As:InGaAs nanocomposites. 2013 , 31, 041401		4
883	Mean Free Path Effects on the Experimentally Measured Thermal Conductivity of Single-Crystal Silicon Microbridges. 2013 , 135,		9
882	Thermophysical Properties and Pool Boiling Characteristics of Water-in-Polyalphaolefin Nanoemulsion Fluids. 2013 , 135,		6
881	Nanostructured phase-changeable heat transfer fluids. 2013 , 2, 289-306		6
880	Thermal Conductivity Measurement of Graphene Composite. 2013 , 1456, 57		3
879	Thermal conductivity measurement at micrometer length scales based on a temperature-balance method. 2013 , 24, 075006		
878	Thermal Transport across Solid Interfaces with Nanoscale Imperfections: Effects of Roughness, Disorder, Dislocations, and Bonding on Thermal Boundary Conductance. 2013 , 2013, 1-19		178
877	Quantitative scanning thermal microscopy based on determination of thermal probe dynamic resistance. <i>Review of Scientific Instruments</i> , 2013 , 84, 093702	1.7	23
876	Thermal conductivity measurements with the 3 ω method and scanning thermal microscopy. 2013 ,		1
875	Phonon heat conduction in corrugated silicon nanowires below the Casimir limit. 2013 , 103, 043109		57
874	Reduced thermal conductivity in Er-doped epitaxial In _x Ga _{1-x} Sb alloys. 2013 , 103, 103102		9
873	The impact of film thickness and substrate surface roughness on the thermal resistance of aluminum nitride nucleation layers. 2013 , 113, 213502		24

872	Thermal conductivity of Er+3:Y2O3 films grown by atomic layer deposition. 2013 , 103, 193109	6
871	Improving thermoelectric efficiency in organic-metal nanocomposites via extra-low thermal boundary conductance. 2013 , 114, 194303	16
870	Thermal conductivity of single biological cells and relation with cell viability. 2013 , 102, 203702	26
869	A methodology for nanosecond (or better) time resolved thermoreflectance imaging with coherence control of laser pulses. 2013 , 102, 203112	7
868	Quantitative scanning thermal microscopy of ErAs/GaAs superlattice structures grown by molecular beam epitaxy. 2013 , 102, 061912	7
867	High temperature micro-hotplates on porous silicon substrates. 2013 ,	4
866	Thermal conductivity measurements of single-crystalline bismuth nanowires by the four-point-probe 3- Ω technique at low temperatures. 2013 , 24, 185401	16
865	Multifunctional carbon nanotube-epoxy composites for thermal energy management. 2013 , 47, 77-95	18
864	Thermal Conductivity Measurements of Thin Biological Tissues Using a Microfabricated 3-Omega Sensor. 2013 , 7,	2
863	Dependence of Thermal Conductivities of the AlN Film in the LED Architecture on Surface Roughness and Lattice Mismatch. 2013 ,	1
862	Optical Methods for the Measurement of Thermal Conductivity. 2013 , 1189	
861	Effect of nitrogen doping on the thermal conductivity of GeTe thin films. 2013 , 7, 1107-1111	31
860	Thermal Characterization of Polymer Composites by Using the 3-Omega Method. 2013 ,	
859	Anisotropic thermal conductivity of thin polycrystalline oxide samples. 2013 , 3, 112129	6
858	Thermal conductivity of organic semi-conducting materials using 3omega and photothermal radiometry techniques. 2014 , 79, 02001	9
857	Thermal Properties of Porous Silicon. 2014 , 207-212	1
856	Improving the accuracy of the transient plane source method by correcting probe heat capacity and resistance influences. 2014 , 25, 015006	21
855	Anomalous decrease of the specific heat capacity at the electrical and thermal conductivity percolation threshold in nanocomposites. 2014 , 105, 253108	8

854	Thermal transport in 2- and 3-dimensional periodic holey nanostructures. 2014 , 4, 124502	13
853	Doping site dependent thermoelectric properties of epitaxial strontium titanate thin films. 2014 , 2, 9712-9719	9
852	Analytical Green's function of the multidimensional frequency-dependent phonon Boltzmann equation. 2014 , 90,	28
851	Experimental investigation on thermal conductivity enhancement of copper (II) oxide-DI water nanofluids. 2014 , 23, 341-349	2
850	Thermal conductivity modeling of MgO/EG nanofluids using experimental data and artificial neural network. 2014 , 118, 287-294	190
849	Development of a Device for the Nondestructive Thermal Diffusivity Determination of Combustion Chamber Deposits and Thin Coatings. 2014 , 136,	8
848	Thermal Conductivity Measurement of a Sb ₂ Te ₃ Phase Change Nanowire. 2014 , 95, 120-125	
847	Thermal Conductivity and Interface Thermal Conductance in Composites of Titanium With Graphene Platelets. 2014 , 136,	23
846	The Influence of Carbon Nanotube Aspect Ratio on Thermal Conductivity Enhancement in Nanotube Polymer Composites. 2014 , 136,	20
845	Determination of thermal properties of gases under flow conditions. 2014 ,	0
844	High-frequency thermal-electrical cycles for pyroelectric energy conversion. 2014 , 116, 194509	30
843	Thermal conductivity tensors of the cladding and active layers of interband cascade lasers. 2014 , 105, 261905	6
842	Influence of parasitic effects of the θ_{th} measurement setup to improve the determination of GaN HEMTs thermal impedance. 2014 ,	
841	Thermal conductivity measurement of a Sb ₂ Te ₃ phase change nanowire. 2014 , 104, 263103	16
840	Thermal conductivity of bulk GaN Effects of oxygen, magnesium doping, and strain field compensation. 2014 , 105, 202105	31
839	In situ monitoring of interface delamination by the 3E method. 2014 ,	0
838	Development of a thermal sensor to probe cell viability and concentration in cell suspensions. 2014 , 4, 047120	9
837	Waste Energy Harvesting. 2014 ,	35

836	Thermal transport through short-period SiGe nanodot superlattices. 2014 , 115, 044312	20
835	Gallium ion implantation greatly reduces thermal conductivity and enhances electronic one of ZnO nanowires. 2014 , 4, 057128	7
834	Concept for simultaneous measurement of Seebeck coefficient, electrical conductivity and thermal conductivity. 2014 ,	
833	Experimental and theoretical assessments of thermal boundary resistance between Bi _{0.4} Sb _{1.6} Te ₃ thin films and metals. 2014 , 105, 013903	5
832	Multifunctional skin-like electronics for quantitative, clinical monitoring of cutaneous wound healing. 2014 , 3, 1597-607	175
831	Electrical and thermal conductivities of reduced graphene oxide/polystyrene composites. 2014 , 104, 113101	91
830	Full thermoelectric characterization of InAs nanowires using MEMS heater/sensors. 2014 , 25, 305702	23
829	The Peltier driven frequency domain approach in thermal analysis. <i>Review of Scientific Instruments</i> , 2014 , 85, 103904	1.7 5
828	Chapter 9:Phononic and Electronic Engineering in Nanowires for Enhanced Thermoelectric Performance. 2014 , 400-437	1
827	Polarization field engineering of GaN/AlN/AlGaN superlattices for enhanced thermoelectric properties. 2014 , 104, 042106	32
826	Phonon scattering in strained transition layers for GaN heteroepitaxy. 2014 , 89,	72
825	Heat transmission between a profiled nanowire and a thermal bath. 2014 , 105, 043106	6
824	Spatial nonuniformity in heat transport across hybrid material interfaces. 2014 , 90,	12
823	Thermal considerations in electrically-pumped metallo-dielectric nanolasers. 2014 ,	6
822	Waste Thermal Energy Harvesting (I): Thermoelectric Effect. 2014 , 263-403	2
821	Cross-Linked Carbon Nanotube Heat Spreader. 2014 , 1752, 131-136	
820	Thermal Conductivity Measurements with Galvanic Metallization Lines on Porosified LTCC Applying the 3-Omega Technique. 2014 , 87, 104-107	4
819	Measurement of the Thermal Conductivity of Polydimethylsiloxane Polymer Using the Three Omega Method. 2014 , 613, 259-266	5

818	Thermal conductivity of half-Heusler superlattices. 2014 , 29, 124003	11
817	Enhanced thermoelectric properties of thermal treated Sb ₂ Te ₃ thin films. 2014 , 583, 111-115	19
816	Investigation of the thermal properties of thin solid materials at different temperature levels using a set of microresistors. 2014 , 45, 508-514	0
815	Thermal properties of InSbTe films and interfaces for phase change memory devices. 2014 , 120, 3-8	9
814	Thermoelectric properties of Zn ₄ Sb ₃ /CeFe ₄ CoSb ₁₂ nano-layered superlattices modified by MeV Si ion beam. 2014 , 310, 226-229	3
813	Measurement of the thermal conductivity of cold gas dynamically sprayed alumina-reinforced aluminum coatings between -150°C and +200°C. New test method and experimental results. 2014 , 242, 141-145	9
812	Characterization of very low thermal conductivity thin films. 2014 , 115, 1541-1550	7
811	Transparent aluminium zinc oxide thin films with enhanced thermoelectric properties. 2014 , 2, 6649-6655	77
810	Effective Thermal-Conductivity Measurement on Germanate GlassCeramics Employing the (3omega) Method at High Temperature. 2014 , 35, 336-345	1
809	Development of a Thermal Conductivity Measurement System Using the 3ω Method and Application to Thermoelectric Particles. 2014 , 43, 2151-2156	4
808	Thermal conductivity of ultra-thin chemical vapor deposited hexagonal boron nitride films. 2014 , 104, 013113	33
807	Hot carrier filtering in solution processed heterostructures: a paradigm for improving thermoelectric efficiency. 2014 , 26, 2755-61, 2618	51
806	Thermal conductivity of G _x Sb _{(As)_ySe_{100-x-y} glasses measured by Raman scattering spectra. 2014, 45, 377-382}	15
805	Development and Investigation of Thermal Devices on Fully Porous Silicon Substrates. 2014 , 14, 992-997	7
804	Low thermal conductivity of amorphous Si/Si _{0.75} Ge _{0.25} multilayer films with Au-interlayers. 2014 , 105, 27003	7
803	Ultralow thermal conductivity of multilayers with highly dissimilar Debye temperatures. 2014 , 14, 2448-55	64
802	Highly insulating, fully porous silicon substrates for high temperature micro-hotplates. 2014 , 213, 35-42	6
801	Real-time heat conduction in a self-heated composite slab by Pad filters. 2014 , 71, 606-614	3

800	Amorphous Al ₂ O ₃ Shield for Thermal Management in Electrically Pumped Metallo-Dielectric Nanolasers. 2014 , 50, 499-509	33
799	Measurement of In-Plane Thermal Conductivity of Ultrathin Films Using Micro-Raman Spectroscopy. 2014 , 18, 183-193	25
798	General bidirectional thermal characterization via the 3 ω technique. <i>Review of Scientific Instruments</i> , 2014 , 85, 064903	1.7 19
797	Thermal Properties of Porous Silicon. 2014 , 1-7	
796	Thermal conduction in nanoporous copper inverse opal films. 2014 ,	10
795	Telluride nanowire and nanowire heterostructure-based thermoelectric energy harvesting. 2014 , 2, 6004-6014	22
794	Understanding parasitic effects to improve the β measurement of GaN HEMTs thermal impedance. 2014 ,	
793	A novel on-chip three-dimensional micromachined calorimeter with fully enclosed and suspended thin-film chamber for thermal characterization of liquid samples. 2014 , 8, 034101	17
792	Thermoelectric property of Fe ₃ O ₄ thin films grown onto the SiO ₂ (250 nm)/Si and c-Al ₂ O ₃ (0 0 0 1) substrate at 573 K using pulsed laser deposition. 2014 , 204, 622-628	7
791	Thermal property characterization of fine fibers by the 3-omega technique. 2014 , 71, 589-595	13
790	Accurate thermal property measurement of fine fibers by the 3-omega technique. 2014 , 73, 317-324	11
789	Thermal conductivity and dielectric properties of a TiO ₂ -based electrical insulator for use with high temperature superconductor-based magnets. 2014 , 27, 095018	6
788	Thermal Properties of Solids at Room and Cryogenic Temperatures. 2014 ,	17
787	Measurement of in-plane thermal conductivity and heat capacity of separator in Li-ion cells using a transient DC heating method. 2014 , 272, 378-385	26
786	Thermal properties of nanoporous silicon materials. 2014 , 35-51	2
785	Inkjet printing technology for polymer thermal conductivity measurement by the three omega method. 2014 , 40, 187-195	6
784	Early and current experimental methods for determining thermal conductivities of metals. 2014 , 77, 542-563	20
783	Reduction of the electrocaloric entropy change of ferroelectric PbZr _{1-x} Ti _x O ₃ epitaxial layers due to an elastocaloric effect. 2014 , 90,	26

782	A Microwave Modeling Oxymoron?: Low-Frequency Measurements for Microwave Device Modeling. 2014 , 15, 92-107		4
781	Carrier interactions and porosity initiated reversal of temperature dependence of thermal conduction in nanoscale tin films. 2014 , 115, 023520		4
780	A novel contactless technique for thermal field mapping and thermal conductivity determination: two-laser Raman thermometry. <i>Review of Scientific Instruments</i> , 2014 , 85, 034901	1.7	74
779	Processing and Thermal Conductivity of Lead Telluride Microwires. 2014 , 43, 2731-2737		2
778	Reduced temperature-dependent thermal conductivity of magnetite thin films by controlling film thickness. 2014 , 9, 96		17
777	Protein Thermal Conductivity Measured in the Solid State Reveals Anharmonic Interactions of Vibrations in a Fractal Structure. 2014 , 5, 1077-82		26
776	Magnetothermoelectric figure of merit of Co/Cu multilayers. 2014 , 104, 092411		12
775	Theoretical study of the limits of the 3 ω method using a new complete quadrupole model. 2014 , 86, 314-324		4
774	Nanofluidics. 2014 ,		21
773	Thermoelectric systems: Ion beam enhanced thermoelectric properties. 2014 , 310, 217-220		2
772	Determination of temperature-dependent thermal conductivity of a BaSnO ₃ single crystal by using the 3 ω method. 2014 , 585, 16-20		11
771	Thermoelectric energy conversion in layered structures with strained Ge quantum dots grown on Si surfaces. 2014 , 87, 1		7
770	Emerging challenges and materials for thermal management of electronics. 2014 , 17, 163-174		897
769	Thermal conductivity of thin film oriented control micro-phase separation structure. 2014 , 80, TEP0370-TEP0370		
768	Sensitive 3-omega measurements on epitaxial thermoelectric thin films. 2014 , 68, 012005		4
767	Measurement of Thermal Conductivity of a Flexible Substrate. 2014 ,		
766	3 ω Measurements for Tracking Freezing Fronts in Biological Applications. 2015 , 1779, 15-20		2
765	Thermal conductivity of transition metal containing type-I clathrates. 2015 , 1735, 82		

- 764 Energetic Ion Bombardment of Carbon Nanotubes. **2015**, 1743, 45
- 763 Thermal-Conductivity Measurement of Thermoelectric Materials Using (3 ω) Method. **2015**, 36, 3255-3271 2
- 762 Joule heated metallic microwire devices for sub-microsecond T-jump experiments. **2015**, 46, 1167-1174 3
- 761 Multiband Transport in CoSb Prepared by Rapid Solidification. **2015**, 641, 2020-2028 4
- 760 Thermal conductance of thin film YIG determined using Bayesian statistics. **2015**, 92, 7
- 759 Proliferation of metallic domains caused by inhomogeneous heating near the electrically driven transition in VO₂ nanobeams. **2015**, 92, 11
- 758 Reduced thermal conductivity of TiNiSn/HfNiSn superlattices. **2015**, 92, 30
- 757 Modifying the thermal conductivity of small molecule organic semiconductor thin films with metal nanoparticles. **2015**, 5, 16095 27
- 756 Anisotropic Thermal Conductivity Enhancement in Magnetically Aligned Polydimethylsiloxane/Nickel Composite. **2015**,
- 755 Strong anisotropic thermal conductivity of nanoporous silicon. **2015**, 118, 154304 12
- 754 Simultaneous measurement of all thermoelectric properties of bulk materials in the temperature range 300-600 K. *Review of Scientific Instruments*, **2015**, 86, 073901 1.7 17
- 753 Thermal transport through GaN/AlN interfaces from 300 to 600 K. **2015**, 107, 091605 39
- 752 Graphitic carbon nanospheres: A Raman spectroscopic investigation of thermal conductivity and morphological evolution by pulsed laser irradiation. **2015**, 118, 214301 3
- 751 Parallel measurement of conductive and convective thermal transport of micro/nanowires based on Raman mapping. **2015**, 106, 253108 12
- 750 Fabrication and Characterization of a Conformal Skin-like Electronic System for Quantitative, Cutaneous Wound Management. **2015**, 4
- 749 ? Exact Solutions and Their Implications in Anomalous Heat Transfer. **2015**, 59-86
- 748 Experimental study of thermophysical properties and nanostructure of self-assembled water/polyalphaolefin nanoemulsion fluids. **2015**, 7, 168781401558126 5
- 747 Thermal conductivity of donor-doped GaN measured with 3 ω and stationary methods. **2015**, 41, 563-566 1

746	Solution-phase synthesis and thermal conductivity of nanostructured CdSe, In ₂ Se ₃ , and composites thereof. 2015 , 3, 13483-13491		9
745	A 3 omega method to measure an arbitrary anisotropic thermal conductivity tensor. <i>Review of Scientific Instruments</i> , 2015 , 86, 054902	1.7	35
744	Experimental study on thermal conductivity of ethylene glycol based nanofluids containing Al ₂ O ₃ nanoparticles. 2015 , 88, 728-734		155
743	A model for predicting the thermal conductivity of SiO ₂ -Ge nanoparticle composites. 2015 , 17, 13429-41		18
742	Scanning Thermal Microscopy (S _{Th} M). 2015 , 177-221		16
741	Evaluating Broader Impacts of Nanoscale Thermal Transport Research. 2015 , 19, 127-165		60
740	Low thermal conductivity coating system for application up to 1000°C by simple PDC processing with active and passive fillers. 2015 , 35, 3339-3348		33
739	Cross-Plane Phonon Conduction in Polycrystalline Silicon Films. 2015 , 137,		6
738	Modifying Thermal Transport in Colloidal Nanocrystal Solids with Surface Chemistry. 2015 , 9, 12079-87		30
737	A microbridge heater for low power gas sensing based on the 3-Omega technique. 2015 , 233, 231-238		11
736	Assessment of Thermal Properties via Nanosecond Thermoreflectance Method. 2015 , 19, 245-257		14
735	Influence of a Nanometric Al ₂ O ₃ Interlayer on the Thermal Conductance of an Al/(Si, Diamond) Interface. 2015 , 17, 68-75		12
734	Thermomechanical properties of rare-earth-doped AlN for laser gain media: The role of grain boundaries and grain size. 2015 , 86, 148-156		19
733	Impact of vacancy ordering on thermal transport in crystalline phase-change materials. 2015 , 78, 013001		76
732	Significant electronic thermal transport in the conducting polymer poly(3,4-ethylenedioxythiophene). 2015 , 27, 2101-6		158
731	Temperature-dependent thermal conductivity in Mg-doped and undoped Ga ₂ O ₃ bulk-crystals. 2015 , 30, 024006		58
730	Simultaneous measurement of the Seebeck coefficient and thermal diffusivity for bulk thermoelectric materials. 2015 , 54, 026602		10
729	New design of a microcalorimeter for measuring absolute heat capacity from 300 to 550 K. 2015 , 603, 244-252		2

728	Magnetic field dependent thermal conductance in La _{0.67} Ca _{0.33} MnO ₃ . 2015 , 381, 188-193		6
727	Thermal Conductivity Measurements of Aggregated (Bi _{1-x} Sb _x) ₂ Te ₃ Nanoparticles Using 3 ω Method. 2015 , 44, 2034-2038		4
726	Optimization of the thermopower of antimony telluride thin film by introducing tellurium nanoparticles. 2015 , 118, 1043-1051		9
725	Determining the Thermal Conductivity of Nanocrystalline Bismuth Telluride Thin Films Using the Differential 3 ω Method While Accounting for Thermal Contact Resistance. 2015 , 44, 2021-2025		24
724	Enhanced Thermoelectric Figure-of-Merit in Thermally Robust, Nanostructured Superlattices Based on SrTiO ₃ . 2015 , 27, 2165-2171		30
723	Tunable thermal conductivity of thin films of polycrystalline AlN by structural inhomogeneity and interfacial oxidation. 2015 , 17, 8125-37		16
722	Measurement of out-of-plane thermal conductivity of substrates for flexible electronics and displays. 2015 , 142, 36-39		9
721	Differential 3 ω method for measuring thermal conductivity of AlN and Si ₃ N ₄ thin films. 2015 , 591, 267-270		16
720	Influence of oxygen partial pressure on laser-induced damage resistance of ZrO ₂ films in vacuum. 2015 , 119, 145-150		13
719	Invited Review Article: Error and uncertainty in Raman thermal conductivity measurements. <i>Review of Scientific Instruments</i> , 2015 , 86, 041101	1.7	32
718	Thermal diffusivity measured using a single plasmonic nanoparticle. 2015 , 17, 20868-72		10
717	The impact of the thermal conductivity of a dielectric layer on the self-heating effect of a graphene transistor. 2015 , 7, 13561-7		3
716	Scanning thermal microscopy techniques for polymeric thin films using temperature contrast mode to measure thermal diffusivity and a novel approach in conductivity contrast mode to the mapping of thermally conductive particles. 2015 , 41, 198-208		12
715	Bimodal Phonon Scattering in Graphene Grain Boundaries. 2015 , 15, 4532-40		71
714	Characterization of the temperature dependence of the thermorefectance coefficient for conductive thin films. <i>Review of Scientific Instruments</i> , 2015 , 86, 024903	1.7	49
713	Thermal characterization and analysis of microliter liquid volumes using the three-omega method. <i>Review of Scientific Instruments</i> , 2015 , 86, 024901	1.7	11
712	Classical estimates of the effective thermoelastic properties of copper-graphene composites. 2015 , 80, 278-290		30
711	Reusable bi-directional 3 ω sensor to measure thermal conductivity of 100-nm thick biological tissues. <i>Review of Scientific Instruments</i> , 2015 , 86, 014905	1.7	32

710	Temperature-dependent thermal conductivity of nanoporous Bi thin films by controlling pore size and porosity. 2015 , 639, 289-295	6
709	Cross-plane temperature-dependent thermal conductivity of Al-doped zinc oxide thin films. 2015 , 638, 83-87	14
708	Effects of nanometer-size Laponite disks on thermal conductivity and specific heat of water and ice, and the gelation time. 2015 , 293, 901-911	11
707	The Apparent Thermal Conductivity of Liquids Containing Solid Particles of Nanometer Dimensions: A Critique. 2015 , 36, 1367-1395	35
706	Enhancement of Seebeck coefficient in Sb-rich Sb ₂ Te ₃ thin film. 2015 , 26, 1619-1624	8
705	Review of solid-liquid phase change materials and their encapsulation technologies. 2015 , 48, 373-391	456
704	Effect of grain size on thermal transport in post-annealed antimony telluride thin films. 2015 , 10, 20	24
703	Temperature-dependent thermoelectric properties of individual silver nanowires. 2015 , 91,	59
702	Nanostructured Thin Films of Thermoelectric Oxides. 2015 , 123-155	1
701	Measurement of thin film thermal conductivity using the laser flash method. 2015 , 26, 195706	20
700	Enhanced in-plane thermoelectric figure of merit in p-type SiGe thin films by nanograin boundaries. 2015 , 7, 7331-9	33
699	Review of thermoelectric characterization techniques suitable for SiGe multilayer structures. 2015 , 88, 1	7
698	Influence of magnetic domain walls and magnetic field on the thermal conductivity of magnetic nanowires. 2015 , 15, 2773-9	13
697	3-Omega Method for Thin Films with the Non-Fourier Boundary Condition. 2015 , 67, 363-375	1
696	Ballistic phonon transport in holey silicon. 2015 , 15, 3273-9	109
695	Nanoscale thermal transport in self-organized epitaxial Ge nanostructures on Si(001). 2015 , 30, 105027	1
694	Notice of Violation of IEEE Publication Principles: Accurate New Methodology in Scanning Thermal Microscopy. 2015 , 14, 1035-1039	7
693	Temperature effects in metal-clad semiconductor nanolasers. 2015 , 4, 26-43	15

692	Conductive cooling in white organic light emitting diode for enhanced efficiency and life time. 2015 , 106, 013301	2
691	Thermoelectric properties of DC-sputtered filled skutterudite thin film. 2015 , 117, 125304	12
690	Thermal Conduction in Vertically Aligned Copper Nanowire Arrays and Composites. 2015 , 7, 19251-9	81
689	Cross-sectional scanning thermal microscopy of ErAs/GaAs superlattices grown by molecular beam epitaxy. 2015 , 26, 265701	9
688	A novel and practical method for in-situ monitoring of interface delamination by local thermal diffusivity measurement. 2015 ,	1
687	Assessing the thermoelectric properties of Cu_xO ($x = 1$ to 2) thin films as a function of composition. 2015 , 106, 253901	26
686	Review on thermal properties of nanofluids: Recent developments. 2015 , 225, 146-76	263
685	An experimental study on the effect of diameter on thermal conductivity and dynamic viscosity of Fe/water nanofluids. 2015 , 119, 1817-1824	225
684	Glass-Like Thermal Conductivity of (010)-Textured Lanthanum-Doped Strontium Niobate Synthesized with Wet Chemical Deposition. 2015 , 98, 624-628	3
683	Adaptable thermal conductivity characterization of microporous membranes based on freestanding sensor-based 3D technique. 2015 , 89, 185-192	16
682	Measurement of thermal conductance of $La_{0.7}Sr_{0.3}MnO_3$ thin films deposited on $SrTiO_3$ and MgO substrates. 2015 , 326, 204-210	6
681	The investigation of electron-phonon coupling on thermal transport across metal-semiconductor periodic multilayer films. 2015 , 50, 833-839	20
680	Perturbation of the Heat Lateral Diffusion by Interface Resistance in Layered Structures. 2015 , 36, 1281-1288	5
679	Reconstruction of thermal boundary resistance and intrinsic thermal conductivity of SiO_2 -GaN-sapphire structure and temperature dependence. 2015 , 87, 178-186	8
678	Effective thermal parameters of chalcogenide thin films and simulation of phase-change memory. 2015 , 87, 207-214	10
677	Effect of electronic contribution on temperature-dependent thermal transport of antimony telluride thin film. 2015 , 620, 120-124	13
676	Thermophysical Properties and SANS Studies of Nanoemulsion Heat Transfer Fluids. 2016 ,	
675	Operational Approach and Solutions of Hyperbolic Heat Conduction Equations. 2016 , 5, 28	27

674	Nanostructured State-of-the-Art Thermoelectric Materials Prepared by Straight-Forward Arc-Melting Method. 2016,	2
673	Thermal conductivity of nanocrystalline diamond films grown by hot filament chemical vapor deposition. 2016, 213, 2590-2593	3
672	Far-reaching geometrical artefacts due to thermal decomposition of polymeric coatings around focused ion beam milled pigment particles. 2016, 262, 316-25	1
671	Evaluating the Frequency Response of Nanoscale Thermocouples Using Temperature Oscillations in Nanoscale Heaters. 2016, 15, 567-573	1
670	Quantitative probing of tip-induced local cooling with a resistive nanoheater/thermometer. 2016, 109, 253114	5
669	Heat conduction in nanostructured materials. 2016, 11, JTST0001-JTST0001	27
668	Chapter 3 Growth and Transport Properties of Tetradyomite Thin Films. 2016, 95-124	2
667	All-optical beam deflection method for simultaneous thermal conductivity and thermo-optic coefficient (dn/dT) measurements. 2016, 119, 173102	4
666	Measurement of in-plane thermal conductivity in polymer films. 2016, 6, 045315	39
665	Thermal transport phenomena beyond the diffusive regime. 2016,	1
664	Thermal Annealing Effect on the Thermal and Electrical Properties of Organic Semiconductor Thin Films. 2016, 1, 1637-1643	3
663	Analysis of the 3μ method for the measurement of fluid thermal properties. 2016,	
662	Measurement of thermal conductivity of Bi ₂ Te ₃ nanowire using high-vacuum scanning thermal wave microscopy. 2016, 108, 071907	8
661	Prediction of Thermal Boundary Conductance at the Interface With Phonon Wave-Packet Simulations: The Roles of Vibrational Spectra Differences, Interface Bond Strength, and Inelastic Scattering. 2016,	
660	Thermal Conductivity of Turbostratic Carbon Nanofiber Networks. 2016, 138,	3
659	Thermal-electrical Impedance Spectroscopy for Fluid Characterisation. 2016, 168, 770-773	3
658	Tunable Thermal Transport in Polysilsesquioxane (PSQ) Hybrid Crystals. 2016, 6, 21452	2
657	Thermal conductivity of biological cells at cellular level and correlation with disease state. 2016, 119, 224701	12

656	Thermal conductivity measurement of amorphous dielectric multilayers for phase-change memory power reduction. 2016 , 120, 015103	19
655	Platform for in-plane ZT measurement and Hall coefficient determination of thin films in a temperature range from 120 K up to 450 K. 2016 , 31, 3196-3204	21
654	Thermal conductivity and mechanical properties of AlN-based thin films. 2016 , 119, 225304	30
653	Analysis of the temperature dependence of the thermal conductivity of insulating single crystal oxides. 2016 , 4, 104815	32
652	High Power Density Pyroelectric Energy Conversion in Nanometer-Thick BaTiO ₃ Films. 2016 , 20, 137-146	12
651	Thermal transport in Cu ₂ ZnSnS ₄ thin films. 2016 , 119, 095108	4
650	Simultaneous measurement of heat capacity and internal relaxation time. <i>Review of Scientific Instruments</i> , 2016 , 87, 054904	1.7
649	Temperature-dependent thermal conductivity and diffusivity of a Mg-doped insulating Ga ₂ O ₃ single crystal along [100], [010] and [001]. 2016 , 31, 125006	25
648	Thermoelectric characterization and fabrication of nanostructured p-type Bi _{0.5} Sb _{1.5} Te ₃ and n-type Bi ₂ Te ₃ thin film thermoelectric energy generator with an in-plane planar structure. 2016 , 6, 065123	17
647	Temperature Dependent Thermal Conductivity and Elastic Properties of a-InGaZnO ₄ and a-In ₂ Ga ₂ ZnO ₇ Thin Films. 2016 , 45, 4890-4897	1
646	Measurement Techniques for Thermal Conductivity and Interfacial Thermal Conductance of Bulk and Thin Film Materials. 2016 , 138,	228
645	Exploring the Extremes of Heat Conduction in Anisotropic Materials. 2016 , 20, 1-21	8
644	Self-formation of thickness tunable Bi ₂ Te ₃ nanoplates on thin films with enhanced thermoelectric performance. 2016 , 6, 31668-31674	15
643	Effect of grain size of polycrystalline diamond on its heat spreading properties. 2016 , 9, 061302	30
642	Limited grain growth in multilayered Bi/Te thin films and the influence on the thermal and electrical conductivity. 2016 , 127, 88-95	1
641	Thermal Conductivity Measurement of Liquid-Quenched Higher Manganese Silicides. 2016 , 45, 1821-1826	2
640	Visible Flip-Chip Light-Emitting Diodes on Flexible Ceramic Substrate With Improved Thermal Management. 2016 , 37, 615-617	14
639	Microcalorimeter: Design considerations, materials and examples. 2016 , 158, 107-117	11

638	An improved transient plane source method for measuring thermal conductivity of thin films: Deconvoluting thermal contact resistance. 2016 , 96, 371-380	39
637	Scanning near-field thermoelectric microscopy for subsurface nanoscale thermoelectric behavior. 2016 , 122, 1	1
636	Finite Element Simulation of Temperature and Current Distribution in a Superconductor, and a Cell Model for Flux Flow Resistivity Interim Results. 2016 , 29, 1405-1422	7
635	Polymer Nanocomposites. 2016 ,	9
634	Measuring methods for thermoelectric properties of one-dimensional nanostructural materials. 2016 , 6, 48933-48961	12
633	Electrically Conductive Polymer Nanocomposites with High Thermal Conductivity. 2016 , 255-280	
632	Significant enhancement of the thermoelectric figure of merit of polycrystalline Si films by reducing grain size. 2016 , 49, 315104	13
631	Thermal resistances of thin films of small molecule organic semiconductors. 2016 , 4, 8817-8821	6
630	Technology of Si Porous Layer Fabrication Using Anodic Etching: General Scientific and Technical Issues. 2016 , 64-89	
629	Phonon thermal conduction in novel 2D materials. 2016 , 28, 483001	54
628	Metal-coated glass microfiber for concentration detection in gas mixtures using the 3-Omega excitation method. 2016 , 250, 243-249	2
627	Development of steady-state electrical-heating fluorescence-sensing (SEF) technique for thermal characterization of one dimensional (1D) structures by employing graphene quantum dots (GQDs) as temperature sensors. 2016 , 27, 445706	6
626	Superlattices: Design of InAs/GaSb Superlattices for Optoelectronic Applications Basic Theory and Numerical Methods. 2016 , 1035-1051	
625	From diffusive to ballistic Stefan Boltzmann heat transport in thin non-crystalline films. 2016 , 6, 94193-94199	13
624	Half-Heusler superlattices as model systems for nanostructured thermoelectrics. 2016 , 213, 732-738	6
623	Surface effects on thermoelectric properties of metallic and semiconducting nanowires. 2016 , 213, 557-570	4
622	Thermoelectric properties of Ge/Si heterostructures: A combined theoretical and experimental study. 2016 , 213, 524-532	6
621	Nanostructured clathrates and clathrate-based nanocomposites. 2016 , 213, 784-801	1

620	Fabrication and characterization of aluminum nitride thick film coated on aluminum substrate for heat dissipation. 2016 , 42, 18141-18147	20
619	In-situ monitoring of interface delamination by local thermal transducers exemplified for a flip-chip package. 2016 ,	2
618	Enhancing the thermophysical properties and tribological behaviour of engine oils using nano-lubricant additives. 2016 , 6, 77913-77924	66
617	The influence of the interface between mica and epoxy matrix on properties of epoxy-based dielectric materials with high thermal conductivity and low dielectric loss. 2016 , 6, 83163-83174	13
616	A Review of Raman Thermography for Electronic and Opto-Electronic Device Measurement With Submicron Spatial and Nanosecond Temporal Resolution. 2016 , 16, 667-684	64
615	Silver Nanoparticle-Deposited Boron Nitride Nanosheets as Fillers for Polymeric Composites with High Thermal Conductivity. 2016 , 6, 19394	156
614	Thermal Mode Spectroscopy for Thermal Diffusivity of Millimeter-Size Solids. 2016 , 117, 195901	5
613	Remarkably enhanced thermal transport based on a flexible horizontally-aligned carbon nanotube array film. 2016 , 6, 21014	54
612	A Micro-Thermal Sensor for Focal Therapy Applications. 2016 , 6, 21395	10
611	Thermoelectric properties of copper chalcogenide alloys deposited via the solution-phase using a thiolimine solvent mixture. 2016 , 6, 99905-99913	16
610	Giant figure of merit (ZT) of Ge ₂ Sb ₂ Te ₅ thin films through the control of crystal structure. 2016 ,	
609	Structure-thermal property correlation of aligned silicon dioxide nanorod arrays. 2016 , 108, 231903	10
608	Measurement and analysis of thermal conductivity of isotopically controlled silicon layers by time-resolved X-ray scattering. 2016 , 213, 3020-3028	2
607	Characterization and simulation of liquid phase exfoliated graphene-based films for heat spreading applications. 2016 , 106, 195-201	26
606	Thermal characterization of epitaxial grown polycrystalline silicon. 2016 , 606, 99-105	2
605	Silicon Porosification: Approaches to PSI Parameters Control. 2016 , 90-143	
604	Low thermal conductivity in nanocrystalline Zn ₃ P ₂ . 2016 , 687, 813-820	3
603	Exact solution of Guyer-Krumhansl type heat equation by operational method. 2016 , 96, 132-144	46

602	Thermal Conductivity of Self-Assembling Symmetric Block Copolymer Thin Films of Polystyrene-Block-Poly(methyl methacrylate). 2016 , 138,	7
601	Nanophononics: state of the art and perspectives. 2016 , 89, 1	124
600	Scanning Thermal Microscopy of Thermoelectric Nanostructures. 2016 , 45, 1734-1739	2
599	Imaging Spatial Variations in the Dissipation and Transport of Thermal Energy within Individual Silicon Nanowires Using Ultrafast Microscopy. 2016 , 16, 434-9	8
598	Thermal Properties of a Thin-Film Membrane Embedded in a Multiparameter Wind Sensor On-Device Characterization Utilizing a Transient Measurement Approach. 2016 , 16, 3409-3418	1
597	The 3-method for thermal conductivity measurements in a bottom heater geometry. 2016 , 213, 649-661	2
596	Quasi-ballistic Electronic Thermal Conduction in Metal Inverse Opals. 2016 , 16, 2754-61	65
595	Thermal Boundary Conductance: A Materials Science Perspective. 2016 , 46, 433-463	126
594	Rapid thermal conductivity measurement of porous thermal insulation material by laser flash method. 2016 , 27, 882-885	16
593	Adjusting the thermoelectric properties of copper(I) oxide-graphite-polymer pastes and the applications of such flexible composites. 2016 , 18, 10700-7	25
592	Electrothermal Characterization of Doped-Si Heated Microcantilevers Under Periodic Heating Operation. 2016 , 138,	
591	Novel method for thermal conductivity measurement through flux signal deconvolution. 2016 , 6, 32-39	4
590	Thermal conductivity study of micrometer-thick thermoelectric films by using three-omega methods. 2016 , 98, 683-689	15
589	Anisotropic transport properties of tungsten disulfide. 2016 , 114, 48-50	42
588	Measurement Techniques. 2016 , 125-152	
587	Experimental and numerical study of anisotropic thermal conductivity of magnetically aligned PDMS/Ni particle composites. 2016 , 97, 645-652	20
586	Thermal Conductivity Comparison of Indium Gallium Zinc Oxide Thin Films: Dependence on Temperature, Crystallinity, and Porosity. 2016 , 120, 7467-7475	25
585	General multilayer heat transfer model for optical-based thermal characterization techniques. 2016 , 93, 695-706	6

584	Advanced characterization methods for wear resistant hard coatings: A review on recent progress. 2016 , 285, 31-46		88
583	Measurement of thermal conductivity of graphene-water nanofluid at below and above ambient temperatures. 2016 , 70, 66-74		68
582	Simultaneous measurement of in-plane and through-plane thermal conductivity using beam-offset frequency domain thermoreflectance. <i>Review of Scientific Instruments</i> , 2017 , 88, 014902	1.7	32
581	Thermal conductivity reduction of tungsten plasma facing material due to helium plasma irradiation in PISCES using the improved 3-omega method. 2017 , 486, 267-273		43
580	Thermal Properties of Two Dimensional Layered Materials. 2017 , 27, 1604134		96
579	Plasma-based chemical functionalization of graphene to control the thermal transport at graphene-metal interfaces. 2017 , 314, 148-154		12
578	Anomalously low electronic thermal conductivity in metallic vanadium dioxide. 2017 , 355, 371-374		208
577	Thermoelectric and thermal transport properties of complex oxide thin films, heterostructures and superlattices. 2017 , 32, 183-203		16
576	Effect of Particle Size and Aggregation on Thermal Conductivity of Metal-Polymer Nanocomposite. 2017 , 139,		12
575	Contactless near-field scanning thermoreflectance imaging. 2017 , 9, 4097-4106		4
574	Thermal conductivity of Gd ₂ Zr ₂ O ₇ thin films at various temperatures by using the 3 ω method. 2017 , 641, 34-37		2
573	Thermal conduction across a boron nitride and SiO ₂ interface. 2017 , 50, 104002		29
572	Measurement of the in-plane thermal conductivity by steady-state infrared thermography. <i>Review of Scientific Instruments</i> , 2017 , 88, 044903	1.7	14
571	Two-color pyrometry for low amplitude periodic heating. <i>Review of Scientific Instruments</i> , 2017 , 88, 024903		3
570	An empirical model to predict temperature-dependent thermal conductivity of amorphous polymers. 2017 , 55, 1160-1170		13
569	Modulation calorimetry in diamond anvil cells. I. Heat flow models. 2017 , 121, 145902		4
568	Flexible and Stretchable 3 ω Sensors for Thermal Characterization of Human Skin. 2017 , 27, 1701282		71
567	Improved approach for determining thin layer thermal conductivity using the 3 ω method. Application to porous Si thermal conductivity in the temperature range 77-300 K. 2017 , 50, 195302		5

- 566 CMOS compatible nanoscale thermal conductivity detector for gas sensing applications. **2017**, 261, 9-13 2
- 565 A review based on the effect and mechanism of thermal conductivity of normal nanofluids and hybrid nanofluids. **2017**, 240, 420-446 162
- 564 References. 302-320
- 563 Anisotropic thermal conductivity of β -Ga₂O₃ at elevated temperatures: Effect of Sn and Fe dopants. **2017**, 121, 235104 49
- 562 Extension of the T-bridge method for measuring the thermal conductivity of two-dimensional materials. *Review of Scientific Instruments*, **2017**, 88, 054902 1.7 7
- 561 Sol-gel synthesis and thermoelectric properties of AZO films with pyrolytic carbon inclusions. **2017**, 109, 161-169 4
- 560 Enhanced thermoelectric properties of SnSe thin films grown by pulsed laser glancing-angle deposition. **2017**, 3, 293-298 26
- 559 Perspective: Thermal and thermoelectric transport in molecular junctions. **2017**, 146, 092201 104
- 558 Non-contact methods for thermal properties measurement. **2017**, 76, 1348-1370 43
- 557 Direct Measurement of Pyroelectric and Electrocaloric Effects in Thin Films. **2017**, 7, 44
- 556 RETRACTED: Cross- and in-plane thermal conductivity of AlN thin films measured using differential 3-omega method. **2017**, 320, 91-96 14
- 555 Thermal characteristics and performance of Ag-water nanofluid: Application to natural circulation loops. **2017**, 135, 9-20 30
- 554 Thermal Effusivity Determination of Metallic Films of Nanometric Thickness by the Electrical Micropulse Method. **2017**, 38, 1 2
- 553 Enhanced thermal conductivity of alumina nanoparticle suspensions by femtosecond laser irradiation. **2017**, 107, 755-760 3
- 552 Elastic Modulus and Thermal Conductivity of Thiolene/TiO Nanocomposites. **2017**, 121, 25568-25575 10
- 551 Techniques for Characterizing Thermoelectric Materials: Methods and the Challenge of Consistency. **2017**, 93-110
- 550 Thermomechanical characterization of a nanoscale copper thin-film using picosecond ultrasonics. **2017**, 18, 1245-1251 2
- 549 Absence of coupled thermal interfaces in Al₂O₃/Ni/Al₂O₃ sandwich structure. **2017**, 111, 143102 5

548	APCVD hexagonal boron nitride thin films for passive near-junction thermal management of electronics. 2017 , 28, 505705	4
547	More than half reduction in price per watt of thermoelectric device without increasing the thermoelectric figure of merit of materials. 2017 , 205, 1459-1466	14
546	Hafnium nitride films for thermorefectance transducers at high temperatures: Potential based on heating from laser absorption. 2017 , 111, 151902	9
545	Ultra-low thermal conductivity on Si/Au multilayer films with metal layer thickness below 8 nm. 2017 , 110, 265-272	1
544	Thermal characterization of metal phthalocyanine layers using photothermal radiometry and scanning thermal microscopy methods. 2017 , 232, 72-78	22
543	High thermal conductivity in electrostatically engineered amorphous polymers. 2017 , 3, e1700342	62
542	Thermal Conduction Behavior of Graphene and Graphene Polymer Composites. 2017 , 113-134	
541	Experimental Studies of Thermal Transport in Nanostructures. 2017 , 319-357	0
540	Direct measurement of individual phonon lifetimes in the clathrate compound BaGeAu. 2017 , 8, 491	58
539	AC calorimetry of H ₂ O at pressures up to 9 GPa in diamond anvil cells. 2017 , 121, 245901	2
538	Isolating lattice from electronic contributions in thermal transport measurements of metals and alloys above ambient temperature and an adiabatic model. 2017 , 31, 1750205	12
537	Effect of Si doping on the thermal conductivity of bulk GaN at elevated temperatures [theory and experiment]. 2017 , 7, 095302	24
536	Understanding Divergent Thermal Conductivity in Single Polythiophene Chains Using Green-Kubo Modal Analysis and Sonification. 2017 , 121, 5586-5596	8
535	Next Generation Ceramic Substrate Fabricated at Room Temperature. 2017 , 7, 6637	7
534	Thermal Conductivity Measurement of Bulk Solids. 2017 , 40, 1876-1884	5
533	Thermal conductivity of bulk GaN grown by HVPE: Effect of Si doping. 2017 , 254, 1600713	8
532	Thermal Analysis of High-Power Flip-Chip-Bonded Photodiodes. 2017 , 35, 4242-4246	13
531	Enhancement of Thermal Conductivity of Polyvinyl Alcohol Membrane Using Nano-fiber. 2017 , 2, 3651-3656	1

530	Thermal Conductivity Measurement of Liquids by Using a Suspended Microheater. 2017 , 38, 1	1
529	Thermal Conductivity of ZIF-8 Thin-Film under Ambient Gas Pressure. 2017 , 9, 28139-28143	28
528	Thermal Conduction across Metal-Dielectric Sidewall Interfaces. 2017 , 9, 30100-30106	6
527	Thermal Conductivity and Thermal Boundary Resistances of ALD Al ₂ O ₃ Films on Si and Sapphire. 2017 , 38, 1	2
526	Process Simulation of Pulsed Laser Annealing on Epitaxial Ge on Si. 2017 , 6, P495-P498	2
525	Interfacial thermal resistance across graphene/Al ₂ O ₃ and graphene/metal interfaces and post-annealing effects. 2017 , 123, 18-25	9
524	Tethering Luminescent Thermometry and Plasmonics: Light Manipulation to Assess Real-Time Thermal Flow in Nanoarchitectures. 2017 , 17, 4746-4752	33
523	Thermal conductivity measurements of Yb:CaF ₂ transparent ceramics using the 3- ω method. 2017 , 121, 245108	12
522	Thermal transport enhancement in gold nanofluid containing network like structure. 2017 , 186, 478-483	7
521	Patent Basics Every Researcher and Engineer Should Know. 2017 , 480-495	
520	Influence of grain boundaries on elasticity and thermal conductivity of nanocrystalline diamond films. 2017 , 122, 92-98	55
519	Thermoelectric effects in nanoscale layers of manganese silicide. 2017 , 51, 1403-1408	2
518	Thermal conductivity of double-wall carbon nanotube-polyaniline composites measured by a non-contact scanning hot probe technique. 2017 ,	1
517	Influence of optically active defects on thermal conductivity of polycrystalline diamond. 2017 , 80, 20102	0
516	Dual-Layer Dielectric Stack for Thermally Isolated Low-Energy Phase-Change Memory. 2017 , 64, 4496-4502	22
515	Development, design and fabrication of a measurement chip for thermal material characterization based on the 3- ω method. 2017 ,	0
514	Thermal conductivity of PMMA-SiO ₂ phononic crystals measured by AC resistance thermometry. 2017 ,	
513	Thermal Transport in Soft PAAm Hydrogels. 2017 , 9,	45

512	The 3-Omega Method for the Measurement of Fouling Thickness, the Liquid Flow Rate, and Surface Contact. 2017 , 17,	6
511	Exact Negative Solutions for Guyer-Krumhansl Type Equation and the Maximum Principle Violation. 2017 , 19, 440	12
510	Online Test Microstructures of the Thermophysical Properties of MEMS Conducting Films. 2017 , 1-67	
509	Characterization of thermal transport and laser absorption properties of an individual graphitized carbon fiber by applying Raman thermography. 2018 , 663, 183-188	6
508	On the Steady-State Temperature Rise During Laser Heating of Multilayer Thin Films in Optical Pump-Probe Techniques. 2018 , 140,	33
507	Combination of thermal and electric properties' measurement techniques in a single setup suitable for radioactive materials in controlled environments and based on the 3 ω approach. <i>Review of Scientific Instruments</i> , 2018 , 89, 043905	1.7 3
506	Pyroelectric energy conversion with large energy and power density in relaxor ferroelectric thin films. 2018 , 17, 432-438	132
505	Giant Enhancement in Rashba Spin-Seebeck Effect in NiFe/p-Si Thin Films. 2018 , 12, 1800064	2
504	Experimental signatures of spin superfluid ground state in canted antiferromagnet CrO via nonlocal spin transport. 2018 , 4, eaat1098	81
503	Novel three-dimensional carbon nanotube networks as high performance thermal interface materials. 2018 , 132, 359-369	23
502	Sub- μ m measurements of the thermal conductivity and heat capacity of liquids. 2018 , 20, 7277-7281	11
501	Two-Dimensional Materials for Thermal Management Applications. 2018 , 2, 442-463	190
500	Thermoelectric Properties for a Suspended Microribbon of Quasi-One-Dimensional TlS ₃ . 2018 , 47, 3177-3183	6
499	Dielectric barrier layers by low-temperature plasma-enhanced atomic layer deposition of silicon dioxide. 2018 , 649, 24-29	3
498	Image-Based Rapid Measurements of Temperature-Dependent Thermal Conductivities. 2018 , 140,	
497	Comparison of four-probe thermal and thermoelectric transport measurements of thin films and nanostructures with microfabricated electro-thermal transducers. 2018 , 51, 103002	6
496	Thermophysical characterization of polymers according to the temperature using a periodic method. 2018 , 66, 235-243	6
495	Note: Improvement of the 3 ω thermal conductivity measurement technique for its application at the nanoscale. <i>Review of Scientific Instruments</i> , 2018 , 89, 016104	1.7 7

494	Spin Seebeck effect and thermal spin galvanic effect in Ni ₈₀ Fe ₂₀ /p-Si bilayers. 2018 , 112, 042404	11
493	Simultaneous Measurement of Thermal Conductivity and Specific Heat in a Single TDTR Experiment. 2018 , 39, 1	6
492	In-plane Thermal Conductivity Measurement with Nanosecond Grating Imaging Technique. 2018 , 22, 83-96	1
491	Advances in thermal transport properties at nanoscale in China. 2018 , 125, 413-433	23
490	Phase-dependent thermal conductivity of electrodeposited antimony telluride films. 2018 , 6, 3410-3416	4
489	Measurement of radial thermal conductivity of a cylinder using a time-varying heat flux method. 2018 , 129, 301-308	9
488	Towards Thermal Reading of Magnetic States in Hall Crosses. 2018 , 9,	1
487	Measuring the thermal conductivity and interfacial thermal resistance of suspended MoS ₂ using electron beam self-heating technique. 2018 , 63, 452-458	37
486	Thermal Conductivity Reduction in Rough Silicon Nanomembranes. 2018 , 17, 500-505	11
485	Quasi continuous wave laser sintering of Si-Ge nanoparticles for thermoelectrics. 2018 , 123, 094301	8
484	Effects of interfaces on the thermal conductivity in Si/Si _{0.75} Ge _{0.25} multilayer with varying Au layers. 2018 , 5, 026415	1
483	Anisotropic thermal conductivity of sputtered Bi _{0.5} Sb _{1.5} Te ₃ films after current-assisted thermal treatment. 2018 , 645, 93-96	4
482	Experimental characterization methods for thermal contact resistance: A review. 2018 , 130, 1530-1548	46
481	Characterization of thermal transport properties of Ag/BaTiO ₃ composites using hot disk: Numerical simulations. 2018 , 116, 599-608	2
480	Enhanced thermal transport across monolayer MoS ₂ . 2018 , 11, 2173-2180	10
479	New experimental correlation for the thermal conductivity of ethylene glycol containing Al ₂ O ₃ @Cu hybrid nanoparticles. 2018 , 131, 1605-1613	41
478	Raman-based technique for measuring thermal conductivity of graphene and related materials. 2018 , 49, 106-120	74
477	The Influence of a TiN Film on the Electronic Contribution to the Thermal Conductivity of a TiC Film in a TiN-TiC Layer System. 2018 , 49, 346-355	0

476	Analytical Investigation of the Limits for the In-Plane Thermal Conductivity Measurement Using a Suspended Membrane Setup. 2018 , 47, 3203-3209	8
475	Elevated thermoelectric figure of merit of n-type amorphous silicon by efficient electrical doping process. 2018 , 44, 89-94	12
474	Raman thermometry analysis: Modelling assumptions revisited. 2018 , 130, 1175-1181	11
473	Characterisation of high thermal conductivity thin-film substrate systems and their interface thermal resistance. 2018 , 334, 233-242	13
472	An Ultrathin Flexible 2D Membrane Based on Single-Walled Nanotube/MoS ₂ Hybrid Film for High-Performance Solar Steam Generation. 2018 , 28, 1704505	196
471	Thermo-optical characterization and thermal properties of graphene/polymer composites: a review. 2018 , 6, 2901-2914	15
470	Spatially Resolved, Non-Destructive in-situ Detection of Interface Degradation by Remote Electrical Readout of an on-chip Thermal Pixel (Thixel) Matrix. 2018 ,	0
469	On-Chip Temperature Compensation for Thermal Impedance Sensors. 2018 , 2, 1053	
468	Delamination Detection in an Electronic Package by Means of a Newly Developed Delamination Chip Based on Thermal Pixel (Thixel) Array. 2018 ,	0
467	Thermal characterization of thermal interface materials using the three-omega method. 2018 ,	1
466	A Method of Studying the Effect of Stress and Thermal-stress Coupling on the Thermal Conductivity of the Film. 2018 ,	
465	Thermal Transport and Challenges on Nanofluids Performance. 2018 ,	4
464	Precision Measurement of Thermal Diffusivity for Thin Layers by a Customised Laser Pulse Method. 2018 ,	
463	3 ω method based experimental measurements on Kapitza resistance of Si/SiO ₂ interfaces. 2018 ,	
462	Evaluation of the Thermal Properties for the Design of the Semiconductor Device. 2018 ,	
461	Effect of charge ordering on crossplane thermal conductivity in correlated perovskite oxide superlattices. 2018 , 98,	3
460	Heat Transfer at Hybrid Interfaces: Interfacial Ligand-to-Nanocrystal Heating Monitored with Infrared Pump, Electronic Probe Spectroscopy. 2018 , 18, 7863-7869	13
459	Thermal Conductivity of Liquid Metals. 2018 ,	

458	Measuring Thermal Conductivity with Magnitude-Dependent Frequency Domain Thermoreflectance Using Modulated CW Lasers. 2018 , 39, 1		3
457	Nanowires for energy: A review. 2018 , 5, 041305		53
456	A suspended 3-omega technique to measure the anisotropic thermal conductivity of semiconducting polymers. <i>Review of Scientific Instruments</i> , 2018 , 89, 114905	1.7	19
455	Role of structural defects and imperfections. 2018 , 249-339		
454	Frequency domain analysis of pyroelectric response in silicon-doped hafnium oxide (HfO ₂) thin films. 2018 , 113, 122901		15
453	Thermal boundary resistance correlated with strain energy in individual Si film-wafer twist boundaries. 2018 , 6, 53-59		16
452	Frequency dependence of the longitudinal spin Seebeck effect. 2018 , 98,		3
451	Effect of epitaxial strain and vacancies on the ferroelectric-like response of CaTiO ₃ thin films. 2018 , 113, 182902		6
450	Determination of modified figure of merit validity for thermoelectric thin films with heat transfer model: Case of CuCrO ₂ :Mg deposited on fused silica. 2018 , 124, 165306		6
449	Some Exact Solutions to Non-Fourier Heat Equations with Substantial Derivative. 2018 , 7, 48		8
448	Enhanced Thermal Boundary Conductance in Few-Layer Ti C MXene with Encapsulation. 2018 , 30, e1801629		35
447	Thermal conductivity degradation and recovery in ion beam damaged tungsten at different temperature. 2018 , 511, 141-147		13
446	Theoretical and Experimental Methods for Determining the Thermal Conductivity of Nanostructures. 2018 , 11-40		
445	High-frequency measurements of thermophysical properties of thin films using a modified broad-band frequency domain thermoreflectance approach. <i>Review of Scientific Instruments</i> , 2018 , 89, 084905	1.7	4
444	Thermal conductivity of GaN single crystals: Influence of impurities incorporated in different growth processes. 2018 , 124, 105106		20
443	On-Chip Thermal Insulation Using Porous GaN. 2018 , 2, 776		2
442	The influence of point defects on the thermal conductivity of AlN crystals. 2018 , 123, 185107		12
441	Non-idealities in the 3 ω method for thermal characterization in the low- and high-frequency regimes. 2018 , 8, 045111		9

440	Low intrinsic c-axis thermal conductivity in PVD grown epitaxial Sb ₂ Te ₃ films. 2018 , 123, 175108	12
439	Microfabricated sensor platform with through-glass vias for bidirectional 3-omega thermal characterization of solid and liquid samples. 2018 , 278, 33-42	8
438	In-plane thermal diffusivity measurement of highly thermal conductive thin films by the flash method. 2018 ,	
437	Thermal Properties of Nanomaterials. 2018 , 251-289	2
436	Thermal Transport. 2018 , 7-40	
435	Thermal conductivity measurement of diamond and β -Ga ₂ O ₃ thin films by a 3 ω method. 2018 ,	
434	Thermal Measurements. 2018 , 303-332	1
433	Measuring the thermal properties of anisotropic materials using beam-offset frequency domain thermoreflectance. 2018 , 123, 245110	12
432	6.14 Organic Thermoelectric Composites Materials. 2018 , 408-430	4
431	Measurement of the Thermoelectric Properties of Individual Nanostructures. 2018 , 98, 409-444	8
430	. 2018 ,	
429	Temperature-dependent Thermoelectric Properties of Electrodeposited Antimony Telluride Films upon Thermal Annealing. 2018 ,	1
428	Evaluation Methods for Properties of Nanostructured Body. 2018 , 301-363	1
427	Measurement of anisotropic thermal conductivity of a dense forest of nanowires using the 3 ω method. <i>Review of Scientific Instruments</i> , 2018 , 89, 084902	1.7 8
426	Measurement of the thermal conductivity of flexible biosourced polymers using the 3-omega method. 2018 , 70, 503-510	3
425	Rapid Thermal Characterization of Materials with Ultra-High Resolution of Droplet Size Specimens using the Three-Omega Method. 2018 ,	0
424	Ultralow Thermal Conductivity and Mechanical Resilience of Architected Nanolattices. 2018 , 18, 4755-4761	38
423	Reconstruction of Intrinsic Thermal Parameters of Methane Hydrate and Thermal Contact Resistance by Freestanding 3 ω Method. 2018 , 35, 070502	1

422	Compensated thermal conductivity of metallically conductive Ta-doped TiO ₂ . 2018 , 113, 022103		4
421	Anisotropic thermal conductivity measurement using a new Asymmetric-Beam Time-Domain Thermoreflectance (AB-TDTR) method. <i>Review of Scientific Instruments</i> , 2018 , 89, 084901	1.7	28
420	Criteria for accurate measurement of thermal diffusivity of solids using the Angstrom method. 2018 , 134, 216-223		8
419	Challenges of In-Situ Thermal Characterization of Thin-Film Isolation Layers for Printed Electronics. 2018 ,		2
418	High-throughput transient thermal interface testing method using time-domain thermal response. 2018 , 127, 228-233		2
417	Thermal conductivity of single-crystalline AlN. 2018 , 11, 071001		27
416	Subamorphous Thermal Conductivity of Crystalline Half-Heusler Superlattices. 2019 , 23, 1-9		8
415	Enhanced thermoelectric properties of lightly Nb doped SrTiO ₃ thin films. 2019 , 1, 3647-3653		4
414	Growth Monitoring With Submonolayer Sensitivity Via Real-Time Thermal-Conductance Measurements. 2019 , 12,		1
413	Evidence of nanostructuring and reduced thermal conductivity in n-type Sb-alloyed SnSe thermoelectric polycrystals. 2019 , 126, 045105		16
412	Thermoelectric properties of low-cost transparent single wall carbon nanotube thin films obtained by vacuum filtration. 2019 , 114, 113619		8
411	Monte Carlo prediction of ballistic effect on phonon transport in silicon in the presence of small localized heat source. 2019 , 30, 415403		2
410	Enhanced heat transfer properties of RGO-TiO ₂ based Ethylene Glycol Nanofluids. 2019 , 18, 1096-1107		4
409	One-Dimensional Thermal Characterization at the Micro/Nanoscale: Review of the TET Technique. 2019 , 40, 1		3
408	Combined thermo-physical investigations of thin layers with Time Domain Thermoreflectance and Scanning Thermal Microscopy on the example of 500 nm thin, CVD grown tungsten. 2019 , 681, 178373		7
407	A multi-frequency 3 μ m method for tracking moving phase boundaries. <i>Review of Scientific Instruments</i> , 2019 , 90, 094903	1.7	4
406	Exploring the Effect of Porous Structure on Thermal Conductivity in Templated Mesoporous Silica Films. 2019 , 123, 21721-21730		11
405	Experimental procedures for assessing electrical and thermal conductivity of polyaniline. 2019 , 227-258		1

404	Quantifying Intrinsic, Extrinsic, Dielectric, and Secondary Pyroelectric Responses in PbZrTiO Thin Films. 2019 , 11, 35146-35154		9
403	Planar and vertical nanostructures for thermoelectric generation. 2019 , 8, 600-606		1
402	Spatially-Resolved 3D Thermal Flow Sensing for Microfluidics and Biology. 2019 ,		
401	Quantification of atomic force microscopy tip and sample thermal contact. <i>Review of Scientific Instruments</i> , 2019 , 90, 095003	1.7	4
400	Fokker-Planck equation for lattice vibration: Stochastic dynamics and thermal conductivity. 2019 , 99,		1
399	Bio-Integrated Wearable Systems: A Comprehensive Review. 2019 , 119, 5461-5533		496
398	Reducing interfacial thermal resistance between metal and dielectric materials by a metal interlayer. 2019 , 125, 045302		17
397	High temperature thermoelectric properties of laser sintered thin films of phosphorous-doped silicon-germanium nanoparticles. 2019 , 9, 015227		6
396	Structure, microhardness and thermal conducting properties of the high-pressure high-temperature-treated Al _{0.5} Ti _{0.5} N materials. 2019 , 125, 1		1
395	An accurate and rapid method to compare thermal insulation capacity of nine Gd-Yb-YSZ coatings. 2019 , 45, 19910-19917		4
394	Silver content dependent thermal conductivity and thermoelectric properties of electrodeposited antimony telluride thin films. 2019 , 9, 9242		7
393	Influence of Deposition Techniques on the Thermal Boundary Resistance of Aluminum Thin-Films. 2019 , 20, 1435-1441		1
392	Flexible Thermoelectric Materials and Generators: Challenges and Innovations. 2019 , 31, e1807916		255
391	Spin Seebeck Effect from Antiferromagnetic Magnons and Critical Spin Fluctuations in Epitaxial FeF ₂ Films. 2019 , 122, 217204		23
390	An updated review on the nanofluids characteristics. 2019 , 138, 4091-4101		16
389	Exact Analytic Solution and Investigation of the Guyer-Krumhansl Heat Equation. 2019 , 26, 237-254		
388	Cross-plane thermal conductivity of thin films characterized by Flash DSC measurement. 2019 , 677, 21-25		3
387	A Brief Review on Measuring Methods of Thermal Conductivity of Organic and Hybrid Thermoelectric Materials. 2019 , 5, 1900167		28

386	Modification of the Raman Spectra in Graphene-Based Nanofluids and Its Correlation with Thermal Properties. 2019 , 9,		10
385	Optical and Physical Probing of Thermal Processes in Semiconductor and Plasmonic Nanocrystals. 2019 , 70, 353-377		10
384	Temperature fields generated by a circular heat source (CHS) in an infinite isotropic medium: Treatment of contact resistances with application to thin films. 2019 , 137, 677-689		1
383	Thermoelectric properties including thermal conductivity of electrodeposited bismuth selenide thin films fabricated using different acid solutions. 2019 , 792, 222-229		7
382	Enhancement in thermoelectric performance of electrochemically deposited platinum-bismuth telluride nanocomposite. 2019 , 312, 62-71		16
381	Thermal conductivity measurement and analysis of Ge-Si x Ge1-x core-shell nanowires. 2019 , 12, 045001		
380	Finite Element Analysis of the 3-Method for Characterising High Thermal Conductivity Ultra-Thin Film/Substrate System. 2019 , 9, 87		2
379	Thermal characterization of thin films via dynamic infrared thermography. <i>Review of Scientific Instruments</i> , 2019 , 90, 044903	1.7	3
378	Differential laser flash Raman spectroscopy method for non-contact characterization of thermal transport properties of individual nanowires. 2019 , 135, 511-516		5
377	High Contrast Thermal Conductivity Change in NiMnIn Heusler Alloys near Room Temperature. 2019 , 21, 1801342		12
376	Review on micro/nano phase change materials for solar thermal applications. 2019 , 140, 513-538		109
375	Thermal Conductivity of Protein-Based Materials: A Review. 2019 , 11,		20
374	A steady-state thermoreflectance method to measure thermal conductivity. <i>Review of Scientific Instruments</i> , 2019 , 90, 024905	1.7	39
373	Tunable thermal conductivity in aluminum oxide resistive based switching structures by conducting filament diffusion. 2019 , 790, 992-1000		4
372	Thermal conductivity measurement techniques for characterizing thermal energy storage materials A review. 2019 , 108, 32-52		60
371	Structure Function Analysis of Temperature-Dependent Thermal Properties of Nm-Thin Nb2O5. 2019 , 12, 610		1
370	Automatic thermal conductivity measurements with 3-omega technique. <i>Review of Scientific Instruments</i> , 2019 , 90, 024904	1.7	10
369	Progress in Nickel-Coordinated Polymers as Intrinsically Conducting n-Type Thermoelectric Materials. 2019 , 5, 1800884		15

368	Measurements of the Thermal Resistivity of InAlAs, InGaAs, and InAlAs/InGaAs Superlattices. 2019 , 11, 11970-11975		11
367	Fluorescent scanning thermal microscope based on a Blu-ray optical head to measure thermal diffusivity of radioactive samples. <i>Review of Scientific Instruments</i> , 2019 , 90, 024903	1.7	
366	Sensitivity of On-Skin Thermometry to Detecting Dermal Dehydration. 2019 , 141,		1
365	Two-dimensional cancer theranostic nanomaterials: Synthesis, surface functionalization and applications in photothermal therapy. 2019 , 299, 1-20		92
364	A straightforward 2 π technique for the measurement of the Thomson effect. <i>Review of Scientific Instruments</i> , 2019 , 90, 024902	1.7	2
363	Periodic amplification of radiative heat transfer. 2019 , 125, 064302		1
362	Studies of Thermoelectric Properties of Superlattices Based on Manganese Silicide and Germanium. 2019 , 61, 2348-2352		1
361	Robust and Flexible Thermal Sensor Using the 3-Omega-Method to Investigate Thermal Properties of Fluids. 2019 ,		0
360	Printable Thermoelectric Device. 2019 , 1407, 012057		
359	Latest advancements towards delamination detection in a FCOB assembly using Thermal Pixel (Thixel) array. 2019 ,		
358	Thermal conductivity of crystalline AlN and the influence of atomic-scale defects. 2019 , 126, 185105		42
357	Scanning thermal microscopy—a tool for thermal measurement in the nanoscale. 2019 , 14, 181-213		1
356	Investigation on Thermo-Physical Properties of 500 nm CVD Grown Tungsten Layers using Time Domain Thermoreflectance and Scanning Thermal Microscopy. 2019 ,		0
355	Advances in Scanning Thermal Microscopy Measurements for Thin Films. 2019 ,		2
354	. 2019 ,		1
353	Experimental Performance Analysis of Advanced Layers for Electronic Circuit Boards. 2019 ,		0
352	Thermal Transport in Disordered Materials. 2019 , 23, 81-116		41
351	A novel microsensors for measuring thermal conductivity of fluid based on three omega method. <i>Review of Scientific Instruments</i> , 2019 , 90, 015002	1.7	1

350	Segregated double network enabled effective electromagnetic shielding composites with extraordinary electrical insulation and thermal conductivity. 2019 , 117, 56-64	49
349	Enhancement of thermal conductivity of titanium dioxide nanoparticle suspensions by femtosecond laser irradiation. 2019 , 133, 662-668	3
348	Effects of temperature and particles volume concentration on the thermophysical properties and the rheological behavior of CuO/MgO/TiO ₂ aqueous ternary hybrid nanofluid. 2019 , 137, 879-901	55
347	Vertical Silicon Nanowire Thermoelectric Modules with Enhanced Thermoelectric Properties. 2019 , 19, 747-755	23
346	Nonlinear electrochemical and electrokinetic effects in 3omega hot wire measurements of thermophysical properties of nanofluids. 2019 , 136, 1457-1465	
345	Magnetic field dependent thermal conductivity measurements of magnetic nanofluids by 3D method. 2019 , 474, 199-206	21
344	Thermal transport across graphene step junctions. 2019 , 6, 011005	11
343	Interface thermal behavior in nanomaterials by thermal grating relaxation. 2019 , 131, 932-943	7
342	Methods Used to Determine Heat Transport and Related Properties, With Comparisons. 2019 , 99-142	
341	An improved transient plane source technique and methodology for measuring the thermal properties of anisotropic materials. 2019 , 135, 362-374	19
340	Thermal and Thermoelectric Properties of Molecular Junctions. 2020 , 30, 1904534	37
339	Proceedings of the 8th International Conference on Sciences of Electronics, Technologies of Information and Telecommunications (SETIT18), Vol.2. 2020 ,	
338	Directed covalent assembly of nanodiamonds into thin films. 2020 , 101, 107605	4
337	High thermal conductive epoxy based composites fabricated by multi-material direct ink writing. 2020 , 129, 105684	18
336	Magneto-thermal transport behavior in freestanding Ni ₈₀ Fe ₂₀ /Au bilayer thin films. 2020 , 307, 113811	0
335	Thermal conductivity of thin films of gallium nitride, doped with aluminium, measured with 3D method. 2020 , 101, 106105	5
334	Thermal Property Measurement of Nanofluid Droplets with Temperature Gradients. 2020 , 13, 244	2
333	Emerging interface materials for electronics thermal management: experiments, modeling, and new opportunities. 2020 , 8, 10568-10586	41

332	Origin of inhomogeneity in spark plasma sintered bismuth antimony telluride thermoelectric nanocomposites. 2020 , 13, 1339-1346	2
331	Local thermal conductivity measurements to determine the fraction of Cristobalite in thermally grown oxides for aerospace applications. 2020 , 177, 214-217	10
330	Effect of abnormal grain growth on thermoelectric properties of hot-pressed Bi _{0.5} Sb _{1.5} Te ₃ alloys. 2020 , 817, 153284	8
329	Thermal conductivity-structure-processing relationships for amorphous nano-porous organo-silicate thin films. 2020 , 27, 565-586	2
328	A review of recent advances in thermophysical properties at the nanoscale: From solid state to colloids. 2020 , 843, 1-81	216
327	Analytical modelling of transient heat transfer. 2020 , 409-456	
326	First-principles Modeling of Thermal Transport in Materials: Achievements, Opportunities, and Challenges. 2020 , 41, 1	21
325	Peak thermoelectric power factor of holey silicon films. 2020 , 128, 115109	3
324	Graphene Aerogels: Structure Control, Thermal Characterization and Thermal Transport. 2020 , 41, 1	5
323	Research Progress of Thermal Contact Resistance. 2020 , 201, 213-253	4
322	Measurement of thermal transport properties of selected superlattice and thin films using frequency-domain photothermal infrared radiometry. 2020 , 166, 108226	7
321	Design of Graphene Phononic Crystals for Heat Phonon Engineering. 2020 , 11,	3
320	Experimental estimation of temperature-dependent thermal conductivity coefficient by using inverse method and remote boundary condition. 2020 , 117, 104736	3
319	Intrinsic thermal interfacial resistance measurement in bonded metal-polymer foils. <i>Review of Scientific Instruments</i> , 2020 , 91, 104901	1.7 3
318	Enhanced thermoelectric properties of Zn-doped GaSb nanocomposites.. 2020 , 10, 28415-28421	0
317	. 2020 , 4, 1-4	
316	Phonon Bridge Effect in Superlattices of Thermoelectric TiNiSn/HfNiSn With Controlled Interface Intermixing. 2020 , 10,	1
315	Monolithically fabricated sample for the calibration of the tip-sample thermal conductance in scanning thermal microscopy. 2020 , 38, 043202	

314	Heat diffusion imaging: In-plane thermal conductivity measurement of thin films in a broad temperature range. <i>Review of Scientific Instruments</i> , 2020 , 91, 113701	1.7	1
313	In vivo skin thermophysical property testing technology using flexible thermosensor-based 3. 2020 , 163, 120550		7
312	Dynamics of melting in a slab under harmonic heating and convective cooling boundary conditions. 2020 , 128, 105102		2
311	Thermal Conductivity Measurement of Single-Crystal Zeolitic Imidazolate Framework-8 by Raman-Resistance Temperature Detectors Method. 2020 , 14, 14100-14107		3
310	Three-omega thermal-conductivity measurements with curved heater geometries. 2020 , 117, 073102		2
309	Evaluation of Thermal Impedance by 3omega Method for Power Amplifier Behavioral Modeling. 2020 ,		
308	Impact of impurity-based phonon resonant scattering on thermal conductivity of single crystalline GaN. 2020 , 117, 082101		5
307	Spontaneous Deicing on Cold Surfaces. 2020 , 36, 11245-11254		6
306	Effects of strain on thermal conductivity of silicon dioxide thin films using test method based on 3- ω technique and uniaxial strain setup. <i>Review of Scientific Instruments</i> , 2020 , 91, 084901	1.7	2
305	Spatially localized measurement of isotropic and anisotropic thermophysical properties by photothermal radiometry. 2020 , 128, 175104		1
304	Plasmonically Enhanced Thermal Radiation by Means of Surface Phonon Polaritons. 2020 , 14,		3
303	Wide bandwidth frequency-domain thermoreflectance: Volumetric heat capacity, anisotropic thermal conductivity, and thickness measurements. <i>Review of Scientific Instruments</i> , 2020 , 91, 124901	1.7	3
302	Development of a rigid suspended micro-island device and robust measurement method for thermal transport measurements. <i>Review of Scientific Instruments</i> , 2020 , 91, 124902	1.7	
301	A simple test method for measurement of the interface thermal resistance of coated and uncoated metal surfaces. 2020 , 1599, 012049		1
300	Enhanced power factor of n-type Bi ₂ Te _{2.8} Se _{0.2} alloys through an efficient one-step sintering strategy for low-grade heat harvesting. 2020 , 8, 24524-24535		3
299	Thermoelectrical properties of silicon substrates with nanopores synthesized by metal-assisted chemical etching. 2020 , 31, 455705		8
298	Theoretical modeling of a thermal wave technique to determine the extent of the freezing region surrounding a cryoprobe. 2020 , 127, 185101		1
297	Thermal conductivity reduction by scallop shaped surface modulation in silicon nanowires. 2020 , 116, 203901		2

296	Thermal Conductivity Measurement of Soda-Lime-Silica Glass by Transient 3(omega) Method with Au Thin Film-Based Micro-heater/Temperature Sensor Fabricated by an Innovative Approach. 2020 , 41, 1	2
295	Designing and investigation of thermal conductivity set-up using 3̄method. 2020 ,	1
294	Estimation of Thermal Resistance Field in Layered Materials by Analytical Asymptotic Method. 2020 , 10, 2351	2
293	Specifics of Heat Transfer in Al _x Ga _{1-x} N/GaN Heterostructures on Sapphire. 2020 , 62, 722-726	
292	Reference Correlations for the Thermal Conductivity of Solid BK7, PMMA, Pyrex 7740, Pyroceram 9606 and SS304. 2020 , 41, 1	2
291	The periodic pulse photothermal radiometry technique within the front face configuration. 2020 , 158, 107691	6
290	Experimental Study of the Thermal Conductivity of Single-Walled Carbon Nanotube-Based Thin Films. 2020 , 62, 1090-1094	3
289	Tailoring thermal properties of multi-component rare earth monosilicates. 2020 , 195, 698-707	27
288	Investigation of Thermal Properties of HfGa ₂ O ₃ Nanomembranes on Diamond Heterostructure Using Raman Thermometry. 2020 , 9, 055007	14
287	Frequency-domain hot-wire sensor and 3D model for thermal conductivity measurements of reactive and corrosive materials at high temperatures. <i>Review of Scientific Instruments</i> , 2020 , 91, 054904 ¹⁻⁷	7
286	Thermal properties study of silicon nanostructures by photoacoustic techniques. 2020 , 127, 225101	3
285	Spin Seebeck effect detection by harmonic analysis. 2020 , 116, 242402	3
284	Highly Ordered and Dense Thermally Conductive Graphitic Films from a Graphene Oxide/Reduced Graphene Oxide Mixture. 2020 , 2, 1198-1206	30
283	Identification and characterization of the dominant thermal resistance in lithium-ion batteries using operando 3-omega sensors. 2020 , 127, 105104	15
282	Ab initio Investigation of Interfacial Thermal Transport for HMX-PVDF Interface. 2020 , 45, 1454-1464	1
281	Visualizing Energy Transfer at Buried Interfaces in Layered Materials Using Picosecond X-Rays. 2020 , 30, 2002282	7
280	Advanced Thermoelectric Design: From Materials and Structures to Devices. 2020 , 120, 7399-7515	482
279	Thermal conductivity and thermal boundary resistance of amorphous Al ₂ O ₃ thin films on germanium and sapphire. 2020 , 127, 245105	1

278	Measurement of thermal conductivity of millimeter-sized wires using the fin effect. 2020 , 178, 115482	0
277	Recent developments, challenges, and pathways to stable dropwise condensation: A perspective. 2020 , 116, 260501	53
276	Decreasing of the thermal conductivity of Si nanopillar/SiGe composite films investigated by using a piezoelectric photothermal spectroscopy. 2020 , 59, SKKA08	3
275	Ligand Crosslinking Boosts Thermal Transport in Colloidal Nanocrystal Solids. 2020 , 59, 9556-9563	6
274	Wiedemann-Franz law of Cu-coated carbon fiber. 2020 , 162, 339-345	2
273	Employing Interfaces with Metavalently Bonded Materials for Phonon Scattering and Control of the Thermal Conductivity in TAGS-x Thermoelectric Materials. 2020 , 30, 1910039	19
272	Analysis and improvement of the hot disk transient plane source method for low thermal conductivity materials. 2020 , 151, 119331	30
271	Microstructural and transport properties of Mg doped CuFeO ₂ thin films: A promising material for high accuracy miniaturized temperature sensors based on the Seebeck effect. 2020 , 827, 154199	8
270	Thermal properties of CsPbCl ₃ thin films across phase transitions. 2020 , 3, 024004	7
269	Modeling of heat transport and exact analytical solutions in thin films with account for constant non-relativistic motion. 2020 , 150, 119085	2
268	Measuring anisotropic thermal conductivity of aluminum nitride films with the ultra-fast hot strip technique. 2020 , 151, 106259	1
267	Polymeric thermoelectric PEDOT: PSS & composites: Synthesis, progress, and applications. 2020 , 132, 109726	27
266	Thermoelectric properties of holey silicon at elevated temperatures. 2020 , 14, 100224	5
265	Ligand Crosslinking Boosts Thermal Transport in Colloidal Nanocrystal Solids. 2020 , 132, 9643-9650	2
264	Reactively sputtered TiN/SiO ₂ multilayer coatings with designed anisotropic thermal conductivity □ From theoretical conceptualization to experimental validation. 2020 , 393, 125763	3
263	Gauge Fixing for Heat-Transport Simulations. 2020 , 16, 3352-3362	6
262	Analysis of the non-linearity of the heat transfer equation in case of a time-dependent heat source: application to the (3omega) method. 2020 , 121, 85-99	1
261	Thermal studies of individual Si/Ge heterojunctions □The influence of the alloy layer on the heterojunction. 2020 , 6, 248-255	7

260	Carbon Black Nanoparticles Inclusion in Bismuth Telluride Film for Micro Thermoelectric Generator Application. 2020 ,	1
259	. 2021 , 68, 4448-4456	4
258	Thermal conductivity and interfacial effect of parylene C thin film using the 3-omega method. 2021 , 145, 1-12	4
257	Towards a robust thin film sensor for distinguishing fluids using the 3 ω method. 2021 , 321, 112419	0
256	Recent progress in tuning polymer oriented microstructures for enhanced thermoelectric performance. 2021 , 80, 105448	33
255	High thermal conductive copper/diamond composites: state of the art. 2021 , 56, 2241-2274	9
254	Determination of Thermal Conductivities for Thin-Film Materials in CMOS MEMS Process. 2021 , 70, 1-9	1
253	Retraction: Constructing interfacial potential barrier via a gradient configuration: an effective method to enhance energy-filtering effect. 2021 , 8, nwaa223	1
252	Heat Transport Control and Thermal Characterization of Low-Dimensional Materials: A Review. 2021 , 11,	3
251	Pyroelectric thin films Past, present, and future. 2021 , 9, 010702	7
250	Thermal and thermoelectrical measurements. 2021 , 209-251	
249	Heat conduction of electrons and phonons in thermal interface materials. 2021 , 5, 5617-5638	5
248	Inline quality monitoring of diesel exhaust fluid (AdBlue) by using the 3 ω method. 2021 , 10, 5-12	0
247	Multiplexed lock-in thermography. <i>Review of Scientific Instruments</i> , 2021 , 92, 014902	1.7 1
246	Heat Conduction Beyond the Fourier Law. 2021 , 66, 1-22	2
245	Diverse Applications of Graphene-Based Polymer Nanocomposites. 2021 , 973-1001	
244	Bioresorbable Microdroplet Lasers as Injectable Systems for Transient Thermal Sensing and Modulation. 2021 , 15, 2327-2339	10
243	Thermal conductivity measurement at the micrometer scales. 2021 , 241-253	

242	Cross-plane thermal conductivity of GaN/AlN superlattices. 2021 , 118, 062105		2
241	Applications and Impacts of Nanoscale Thermal Transport in Electronics Packaging. 2021 , 143,		11
240	The measurement of anisotropic thermal transport using time-resolved magneto-optical Kerr effect. 2021 , 11, 025024		3
239	The use of photothermal techniques for thermal conductivity and thermal boundary resistance measurements of phase-change chalcogenides alloys. 2021 , 129, 055106		1
238	A scalable molecule-based magnetic thin film for spin-thermoelectric energy conversion. 2021 , 12, 1057		7
237	Anisotropic thermal conductivity measurement of organic thin film with bidirectional 3 μ method. <i>Review of Scientific Instruments</i> , 2021 , 92, 034902	1.7	3
236	Hydrogen effects on the thermal conductivity of delocalized vibrational modes in amorphous silicon nitride (aSiN _x :H). 2021 , 5,		2
235	Ultralow Thermal Conductivity in Nanoporous Crystalline Fe ₃ O ₄ . 2021 , 125, 6897-6908		3
234	Si and SiGe Nanowire for Micro-Thermoelectric Generator: A Review of the Current State of the Art. 2021 , 8,		6
233	Filling the gap: thermal properties and device applications of graphene. 2021 , 64, 1		3
232	High-contrast, reversible change of thermal conductivity in hexagonal nickel-iron sulfides. 2021 , 208, 116709		2
231	Steady-state methods for measuring in-plane thermal conductivity of thin films for heat spreading applications. <i>Review of Scientific Instruments</i> , 2021 , 92, 044907	1.7	2
230	Electric-field-induced modulation of thermal conductivity in poly(vinylidene fluoride). 2021 , 82, 105749		11
229	Measurement of High-temperature Thermophysical Properties of Bulk and Coatings Using Modulated Photothermal Radiometry. 2021 , 170, 120989		3
228	Observation of heat transfer mechanisms in saturated pool boiling of water by high-speed infrared thermometry. 2021 , 170, 121006		5
227	Thermal expansion characterization of thin films using harmonic Joule heating combined with atomic force microscopy. 2021 , 118, 194101		4
226	Temperature dependent thermal conductivity of Ila diamond by laser excited Raman spectroscopy. 2021 , 118, 192104		2
225	Development of experimental methodology for estimation of thermo-physical properties of engineering materials using inverse method. 2021 , 22, 100832		3

224	The hot-wire concept: Towards a one-element thermal biosensor platform. 2021 , 179, 113043		2
223	A novel method for spatially-resolved thermal conductivity measurement by super-resolution photo-activated infrared imaging. 2021 , 18, 100375		2
222	Employing Cathodoluminescence for Nanothermometry and Thermal Transport Measurements in Semiconductor Nanowires. 2021 ,		4
221	Thermal Conductivity of Nano-Crystallized Indium-Gallium-Zinc Oxide Thin Films Determined by Differential Three-Omega Method. 2021 , 11,		2
220	Direct measurement of thermal conductivity of gold nanowires and nanoribbons at ambient room temperature and 100 °C. 2021 , 129, 245108		0
219	Thermal conductivity measurements of sub-surface buried substrates by steady-state thermoreflectance. <i>Review of Scientific Instruments</i> , 2021 , 92, 064906	1.7	5
218	Dynamic Characterization of Phase Change Materials Under Harmonic Heating. 2021 ,		
217	Robust and Sensitive Thermal Sensor Using the 3-Omega-Method to Measure the Concentration of Binary Mixtures. 2021 ,		
216	Interfacial heat transport in nano-carbon assemblies. 2021 , 178, 391-412		26
215	A temperature gradient evaluation method for determining temperature dependent thermal conductivities. 2021 , 32, 105601		
214	Toward High-Throughput Thermal Characterization of Combinatorial Thin-Film Solid State Phase Change Materials. 2021 ,		
213	Photoacoustic thermal characterization of low thermal diffusivity thin films. 2021 , 22, 100246		5
212	Si Nanopillar/SiGe Composite Structure for Thermally Managed Nano-devices. 2021 ,		1
211	Electrospun Composite Gel Polymer Electrolytes with High Thermal Conductivity toward Wide Temperature Lithium Metal Batteries. 2021 , 4, 8130-8141		1
210	Application of 3-omega method for thin-film heat flux gauge calibration. 2021 , 32, 114001		1
209	Measurement of thermal boundary resistance between water and superhydrophobic surfaces by the bi-directional differential 3 ω method. 2021 , 126, 105404		1
208	Electrostatic Control of the Thermoelectric Figure of Merit in Ion-Gated Nanotransistors. 2021 , 31, 2104175		4
207	Nanostructuring Bi ₂ Te ₃ -Based Thermoelectric Thin-Films Grown Using Pulsed Laser Deposition.		

206	Operando spatial mapping of lithium concentration using thermal-wave sensing. 2021 , 5, 2195-2210		5
205	Processing and Thermal Conductivity of Bulk Nanocrystalline Aluminum Nitride. 2021 , 14,		0
204	All-dielectric thermonanophotonics. 2021 , 13, 643		11
203	Low thermal conductivity: fundamentals and theoretical aspects in thermoelectric applications. 2021 , 21, 100744		13
202	3 ω correction method for eliminating resistance measurement error due to Joule heating. <i>Review of Scientific Instruments</i> , 2021 , 92, 094711	1.7	0
201	Thermal conductivity measurement of solid materials using an μ TX method: a pilot study using DNA solid films. 2021 , 176, 121501		3
200	Experimental Measurements on the Thermal Conductivity of Glycerol-Based Nanofluids with Different Thermal Contrasts. 2021 , 2021, 1-9		0
199	A review of thermal physics and management inside lithium-ion batteries for high energy density and fast charging. 2021 , 41, 264-288		15
198	Development of microdevices for the in-plane thermoelectric characterization of deposited films. 2021 , 15, 1190-1200		
197	Thermal transport by phonons in thermoelectrics. 2021 , 23-42		
196	Stability, thermophysical properties of nanofluids, and applications in solar collectors: A review. 2021 , 8, 659-684		2
195	Phonon Heat Conduction in Superlattices. 2003 , 147-167		2
194	Local Droplet Etching: Self-assembled Nanoholes for Quantum Dots and Nanopillars. 2013 , 363-384		1
193	Thermal Conductivity of Diamond. 1995 , 285-318		8
192	Simulation and Experimental Study of GaAs Substrate Thermal Conductivity Using 3-Omega Method. 2020 , 177-184		1
191	Effect of Multiwall Carbon Nanotube (MWCNT) Concentration on Thermal and Electrical Properties of Glycerol Nanofluid. 2020 , 297-305		1
190	Thermal Interface Materials. 2017 , 511-535		14
189	Measurement Techniques. 2010 , 113-138		2

188	Nanoporous dielectric films: Fundamental property relations and microelectronics applications. 2003 , 261-325	5
187	Composite Structured Surfaces for Durable Dropwise Condensation. 2020 , 156, 119890	15
186	Ion Beam Assisted Deposition Enhanced Thermoelectric Properties (with Figure of Merit Above 3.0). 2015 , 66, 543-547	2
185	Frequency-Domain Hot-Wire Measurements of Molten Nitrate Salt Thermal Conductivity. 2021 , 66, 262-270	5
184	First-principles simulations of heat transport. 2017 , 1,	25
183	Evidence of thermal transport anisotropy in stable glasses of vapor deposited organic molecules. 2018 , 2,	14
182	Thermal transport through the magnetic martensitic transition in Mn_xMGe ($M=Co, Ni$). 2018 , 2,	3
181	Comparison of Thin Film Heat Flux Gauge Technologies Emphasizing Continuous-Duration Operation. 2020 , 142,	5
180	Thermal Exchange of Glass Micro-Fibers Measured by the 3Ω Technique. 2020 , 142,	0
179	Thermal conductivity of bulk and thin film $[\beta]$ - Ga_2O_3 measured by the $3[\omega]$ technique. 2018 ,	9
178	On the Possibility of a Radical Increase in Thermal Conductivity by Dispersed Particles. 2020 , 93, 1796-1814	5
177	Nanotechnology and Performance Development of Cutting Fluids: The Enhanced Heat Transfer Capabilities of Nanofluids. 2017 , 103-148	1
176	Characterization. 2006 , 63-152	1
175	Electrical and Thermal Transport Measurement Techniques for Evaluation of the Figure-of-Merit of Bulk Thermoelectric Materials. 2005 , 23-1-23-20	11
174	Thermal Conductivity and Thermal Interface Resistance Measurements of Thin Films using 3Ω Method. 2013 , 4, 85-106	2
173	Fabrication of asymmetric long-period gratings in polarization-maintaining fiber with a CO laser. 2017 , 56, 4325-4329	7
172	Molecular Dynamics Calculation of Thermal Conductivity in α - SiO_2 and an α - SiO_2 -Based Nanocomposite. 2016 , 61, 835-842	1
171	Temperature and Dislocation Density Effects on the Thermal Conductivity of Bulk Gallium Nitride. 2005 , 892, 678	4

170	Thermal Conductivity of Nanofluids-A Comprehensive Review. 2020 , 7,		4
169	Thermal and Electrical Characterizations of Ultra-Thin Flexible 3YSZ Ceramic for Electronic Packaging Applications. 2016 , 2016, 000391-000396		5
168	Impact of the Glancing Angle Deposition on the Yttria-Stabilized Zirconia Growth and Their Thermal Barrier Coating Properties.		1
167	Study on ultra fast nonequilibrium heat transfers in nano metal films by femtosecond laser pump and probe method. 2012 , 61, 134402		8
166	Recent progresses of thermal conduction in two-dimensional materials. 2020 , 69, 196602		1
165	Measurement Methods and Applications for Thermophysical Properties at Micro/nanoscales. 2011 , 50, 11RC01		4
164	3D method in combination with a meander shaped heater: Theoretical and experimental investigation. 2021 , 332, 113175		0
163	A simple numerical method for evaluating heat dissipation from curved wires with periodic applied heating. 2021 , 119, 163501		
162	Aerosol jet printed 3 omega sensors for thermal conductivity measurement. <i>Review of Scientific Instruments</i> , 2021 , 92, 105008	1.7	1
161	Effect of regulating compressive strains on thermal transport of silicon-based amorphous silica thin films and interfacial thermal resistance. 2021 , 110676		
160	Thermal conductivity modeling of monodispersed microspheres using discrete element method. 2021 , 130, 165104		0
159	Development of Photothermal Mirage Technique for Measuring Thermal Diffusivity. 2003 , 27, 1220-1228		
158	Development of AC Thermal Anemometry. 2004 , 28, 230-237		
157	Nanoscale Thermoelectrics. 2005 , 48-1-48-23		
156	Flush-Mounted Steady-Periodic Heated Film With Application to Fluid-Flow Measurement. 2006 ,		
155	Thermal conductivity of DLC Films deposited from methane and acetylene by RF plasma enhanced CVD. 2007 , 21, 131-136		1
154	Mechanical Properties, Thermal Properties and Microstructures of Amorphous Carbon-nitrogen Films. 2008 , 33, 815-818		
153	The Industrial Perspective. 2010 , 357-425		

152 Using Nanomechanicsto Optimize Coatingsfor Cutting Tools. **2010**, 217-256

151 Numerical simulation of direct current method of measuring thermal conductivities of thin films. **2012**, 61, 114401 1

150 Thermal conductivity measurements on PANI/SBA-15 and PPy/SBA-15. **2012**, 61, 154402 5

149 Thermal Characterization in Frequency Domain. **2012**, 47-86

148 On the Thermophysical Properties of Suspensions of Highly Anisotropic Nanoparticles with and without Field-Induced Microstructure. **2012**, 175-214

147 Thermal Conductivity and Specific Heat of Metallic Micro- and Nanowires. 157-164

146 How to Measure Thermal Conductivity. **2014**, 169-193 1

145 Thermal conductivity measurement on GeSbSe glasses:Raman scattering spectra method. **2014**, 63, 136502 1

144 Thermal Conductivity. **2014**, 163-225

143 How to Measure Heat Capacity at Low Temperatures. **2014**, 39-67

142 Encyclopedia of Microfluidics and Nanofluidics. **2014**, 1-12

141 Microscale Measurements. 417-454

140 Chapter 5:Review of the Methods for Thermal Conductivity Measurements Most Appropriate for Thermoelectric Materials. **2016**, 109-132

139 Encyclopedia of Nanotechnology. **2016**, 2305-2319

138 Chapter 18: Thermal Wave Methods. **2016**, 493-516

137 Thermal Properties of Porous Silicon. **2017**, 1-9

136 High aspect ratio CNT structures produced by energetic ion bombardment. **2017**,

135 Online Test Microstructures of the Thermophysical Properties of MEMS Conducting Films. **2018**, 237-302

- 134 Thermal Properties of Porous Silicon. **2018**, 299-307
- 133 Background Review. **2019**, 11-31
- 132 Near-field scanning thermoreflectance imaging (NeSTRI) as a nano-optical technique for contactlessly mapping the thermal conductivity of 2D materials at the nanoscale. **2019**,
- 131 Effect of Thermal Grease on Thermal Conductivity for Mild Steel and Stainless Steel by ASTM D5470. **2019**, 29, 443-450
- 130 Thermoelectric Performance Testing Methods and Devices. **2020**, 27-51
- 129 Enhanced Thermoelectric Properties of Cobalt Silicide-Silicon Heterostructured Nanowires. **2020**, 1-1
- 128 Accurate Thermal Diffusivity Measurements Using a Modified Egström's Method With Bayesian Statistics. **2020**, 142, 2
- 127 A skin layer made of cured polysilazane and yttria stabilized zirconia for enhanced thermal protection of carbon fiber reinforced polymers (CFRPs). **2020**, 404, 126481 0
- 126 Time-periodic thermal rectification in heterojunction thermal diodes. **2022**, 182, 122035 1
- 125 Radial thermal conductivity of a PAN type carbon fiber using the 3 omega method. **2022**, 172, 107321 1
- 124 Diverse Applications of Graphene-Based Polymer Nanocomposites. **2020**, 47-82 1
- 123 Nonequilibrium Energy Transfer in Nanostructures. **2020**, 345-405
- 122 Thermal Properties. **2020**, 535-547 1
- 121 Estimating the uncertainty of measurements of thermal conductivity of thin films of thermoelectrics with the 3-omega method. **2021**, 2057, 012108 0
- 120 Thermal conductivity of free-standing silicon nanowire using Raman spectroscopy. **2020**, 31, 505701 2
- 119 Thermal and electrical conductivity of single crystalline kesterite Cu₂ZnSnS₄. **2020**, 7, 105908 0
- 118 Anisotropic thermal conductivity of AlGa_N/Ga_N superlattices. **2021**, 32, 075707 1
- 117 Management of Phonon Transport in Lateral Direction for Gap-controlled Si Nanopillar/SiGe Interlayer Composite Materials. **2021**, 1-1 1

116	Microstructure manipulation by laser-surface remelting of a full-Heusler compound to enhance thermoelectric properties. 2022 , 223, 117501	1
115	Thermal Characterization of Metal-Oxide Interfaces Using Time-Domain Thermoreflectance with Nanograting Transducers. 2021 , 13, 58059-58065	0
114	Freestanding Flexible Sensor Based on 3 Technique for Anisotropic Thermal Conductivity Measurement of Potassium Dihydrogen Phosphate Crystal. 2021 , 21,	1
113	One-Dimensional Systemic Modeling of Thermal Sensors Based on Miniature Bead-Type Thermistors. 2021 , 21,	
112	Thermal properties of nanoporous silicon materials. 2021 , 27-49	
111	Anisotropic thermal conductivity of nanocolumnar W thin films. 2022 , 426, 127878	1
110	Determination of thermal conductivity, thermal diffusivity and specific heat capacity of porous silicon thin films using the 3 method. 2022 , 184, 122346	1
109	Determination on the Thermal Conductivity and Thermal Contact Resistance of Thin Composite Phase Change Films as a Thermal Interfacial Material.	
108	Fluid Independent Thermal Flow Sensor using Constant-Temperature Anemometry and the 3 Method. 2021 ,	0
107	Numerical Simulation and Experimental Research for Thermal Conductivity Measurements of Bulk Materials Based on A Frequency-Domain Hot-Strip Sensor. 2022 , 43, 1	
106	Development of coated heat flux gauges for fast responding measurements. 2022 , 33, 045104	
105	Limitations of Diels-Alder Dynamic Covalent Networks as Thermal Conductivity Switches. 2022 , 4, 1218-1224	0
104	An accurate steady-state approach for characterizing the thermal conductivity of Additively manufactured polymer composites. 2022 , 31, 101829	1
103	Prediction of battery thermal behaviour in the presence of a constructal theory-based heat pipe (CBHP): A multiphysics model and pattern-based machine learning approach. 2022 , 48, 103963	11
102	Methods for Measuring Thermal Conductivity of Two-Dimensional Materials: A Review.. 2022 , 12,	1
101	Photothermal phenomenon: Extended ideas for thermophysical properties characterization. 2022 , 131, 065107	6
100	In situ and operando thermal characterization in aqueous electric double layer capacitors using the 3 hot-wire method. 2022 , 188, 122632	0
99	Nanofilm. 2022 , 161-204	

98	Experimental techniques overview. 2022 , 19-45		
97	Review on mechanism and parameters affecting thermal conductivity of nanofluid. 2022 , 56, 2031-2037		1
96	Introduction. 2022 , 1-17		
95	Thermal transport mechanism for different structure. 2022 , 47-113		
94	Thermal conductivity of materials under pressure.		5
93	A Fractal Model for Effective Thermal Conductivity in Complex Geothermal Media. 2022 , 10,		0
92	Thermal transport in silver-coated polymer sphere composites by the bidirectional 3D method. 2022 , 131, 125107		0
91	3D techniques for measurement of volumetric heat capacity and anisotropic thermal conductivity of a solution processable, hybrid organic/inorganic film, Te-PEDOT:PSS. 2022 , 131, 105109		0
90	Advantages of in vivo measurement of human skin thermal conductance using a calorimetric sensor. 1		
89	Thermal conductivity, diffusivity and specific heat capacity of as-grown, degenerate single-crystalline ZnGa ₂ O ₄ ..		0
88	Perspective: predicting and optimizing thermal transport properties with machine learning methods. 2022 , 100153		2
87	Determination on the thermal conductivity and thermal contact resistance of thin composite phase change films as a thermal interfacial material. 2022 , 33, 101979		0
86	Photothermally Enhanced Photoresponse of Bismuth Halide Perovskite by Phonon Scattering. 2022 , 4, 217-224		0
85	TES Nanoemulsions: A Review of Thermophysical Properties and Their Impact on System Design.. 2021 , 11,		2
84	Anisotropic thermoreflectance thermometry: A contactless frequency-domain thermoreflectance approach to study anisotropic thermal transport.. <i>Review of Scientific Instruments</i> , 2022 , 93, 034902	1.7	1
83	Thermal Conductivity of GaAs Nanowire Arrays Measured by the 3D Method.. 2022 , 12,		1
82	Development and digital twin of an experimental opto-electrothermal bench in the perspective of thin films thermal characterization. 2022 , 178, 107549		
81	Influence of Self-Substitution on the Thermoelectric Fe ₂ val Heusler Alloy.		

80	Interfacial thermal resistance: Past, present, and future. 2022 , 94,	8
79	Spectroscopic and Thermal Characterization of Extra Virgin Olive Oil Adulterated with Edible Oils.. 2022 , 11,	2
78	Pico-Watt Scanning Thermal Microscopy for Thermal Energy Transport Investigation in Atomic Materials.. 2022 , 12,	
77	Estimating thin-film thermal conductivity by optical pump thermoreflectance imaging and finite element analysis. 2022 , 131, 185111	
76	Experimental and COMSOL Multiphysics Modeling of Nanofluids Thermal Conductivity Using 3- Ω Method. 2022 , 43,	
75	Structured illumination with thermal imaging (SI-TI): A dynamically reconfigurable metrology for parallelized thermal transport characterization. 2022 , 9, 021411	0
74	Progress in fabrication and manufacturing of sodium aluminosilicate materials (geopolymers) as protective coating materials: A review. 2022 , 29,	0
73	Ab initio determination of interfacial thermal conductance for polymer-bonded explosive interfaces. 2022 , 12, 065005	
72	Investigation of Heater Structures for Thermal Conductivity Measurements of SiO ₂ and Al ₂ O ₃ Thin Films Using the 3- Ω Method. 2022 , 12, 1928	
71	Nanoscale Heat Transport Analysis by Scanning Thermal Microscopy: from calibration to High-Resolution Measurements.	0
70	Influence of self-substitution on the thermoelectric Fe ₂ VAl Heusler alloy. 2022 , 166037	0
69	In vivo measurement of skin heat capacity: advantages of the scanning calorimetric sensor.	
68	Sensing depths in frequency domain thermoreflectance. 2022 , 131, 245103	
67	Thermal conductivity measurements of nano-particle-filled epoxies. 2022 , 1241, 012009	
66	Thermal boundary conductance of CVD-grown MoS ₂ monolayer-on-silica substrate determined by scanning thermal microscopy. 2022 , 120, 262202	1
65	Progress in measurement of thermoelectric properties of micro/nano thermoelectric materials: A critical review. 2022 , 101, 107553	3
64	A Review of the Advances and Challenges in Measuring the Thermal Conductivity of Nanofluids. 2022 , 12, 2526	0
63	Review: 3- Ω Technique for Thermal Conductivity Measurement Contemporary and Advancement in Its Methodology. 2022 , 43,	

- 62 Highly Aligned Bacterial Nanocellulose Films Obtained During Static Biosynthesis in a Reproducible and Straightforward Approach. 2201947
- 61 On-chip heating effects in electronic measurements at cryogenic temperatures.. **2022**, 103536
- 60 Temperature Mapping of Stacked Silicon Dies from X-Ray-Diffraction Intensities. **2022**, 18,
- 59 Thermal Conductivity of Some Ceramic Materials at Cryogenic Temperatures. **2022**,
- 58 Nanomechanical Sensing Using Heater-Integrated Fluidic Resonators. ○
- 57 Measuring sub-surface spatially varying thermal conductivity of silicon implanted with krypton. **2022**, 132, 075112 2
- 56 Conformal sensor-based harmonic wave technique for in-vivo non-invasive monitoring skin water content. **2022**, 197, 123328
- 55 Intrinsically and extrinsically anisotropic heat transport in bulk materials and nanostructures: A review. **2022**, 196, 123307
- 54 Strong linearity and effect of laser heating location in transient photo/electrothermal characterization of micro/nanoscale wires. **2022**, 198, 123393 ○
- 53 Tailored magnetism of a molecule composed of two inverted tetrahedra with spin- $\frac{1}{2}$ ions connected by a spin-1 ion at their common vertex. **2022**, 646, 414328 ○
- 52 Thermal resistance mapping along a single cup-stacked carbon nanotube with focused electron beam heating. **2022**, 198, 123418 ○
- 51 Influence of post deposition annealing on thermoelectric properties of In₂Se₃ thin films. **2023**, 153, 107127 ○
- 50 A scattering matrix formalism to model periodic heat diffusion in stratified solid media. **2022**, 132, 125103 ○
- 49 Implementation of 3 μ Method for Studying the Thermal Conductivity of Perovskite Thin Films. **2022**, 12, 1326 ○
- 48 Engineering Interfacial Effects in Electron and Phonon Transport of Sb₂Te₃/MoS₂ Multilayer for Thermoelectric ZT Above 2.0. 2206384 2
- 47 Joule heating and the thermal conductivity of a two-dimensional electron gas at cryogenic temperatures studied by modified 3 μ method. **2022**, 132, 104302 ○
- 46 Enhancement and Saturation of Near-Field Radiative Heat Transfer in Nanogaps between Metallic Surfaces. **2022**, 129, 2
- 45 Observation of heat transport mediated by the propagation distance of surface phonon-polaritons over hundreds of micrometers. **2022**, 121, 112203 ○

- 44 Second harmonic AC calorimetry technique within a diamond anvil cell. **2022**, 93, 093901 ○
- 43 Thermophysical Properties Mapping of Composites by Lock-in Thermography: Applications on Carbon Fiber Reinforced Plastics. **2022**, 43, ○
- 42 Characterizing particle-based thermal storage performance using optical methods for use in next generation concentrating solar power plants. **2022**, ○
- 41 Towards More Accurate Determination of the Thermoelectric Properties of Bi₂Se₃ Epifilms by Suspension via Nanomachining Techniques. **2022**, 22, 8042 ○
- 40 High-temperature thermal conductivity of ferroelectric and antiferroelectric perovskites. ○
- 39 Using a Mobile Phone to Demonstrate Thermal Properties of Materials. **2022**, 60, 660-662 ○
- 38 Bayesian estimation of thermal properties using periodically pulsed photothermal radiometry: A focus on interfacial thermal resistances between layers. ○
- 37 Engineering thermal transport within Si thin films: The impact of nanoslot alignment and ion implantation. **2022**, 25, 105386 1
- 36 Hybrid high-temperature fouling and erosion characteristics of gas-particle flow around heating tube via CFD-DEM. **2022**, 33, 103850 ○
- 35 Phonon thermal transport and its tunability in GaN for near-junction thermal management of electronics: A review. **2023**, 200, 123497 ○
- 34 Direct Evidence on Effect of Oxygen Dissolution on Thermal and Electrical Conductivity of AlN Ceramics Using Al Solid-State NMR Analysis. **2022**, 15, 8125 ○
- 33 Measurement Techniques of Thermoelectric-related Performance. **2022**, 319-366 ○
- 32 Advanced thermal sensing techniques for characterizing the physical properties of skin. **2022**, 9, 041307 ○
- 31 Thermal conductivity of multilayer polymer-nanocomposite thin films. **2022**, 132, 195104 ○
- 30 Efficient modulation of thermal transport in two-dimensional materials for thermal management in device applications. ○
- 29 Out-of-plane transient thermal conductivity measurements for bulk semiconducting conjugated polymers using fast scanning calorimetry. ○
- 28 Thermal conductivity of single silk fibroin fibers measured from the 3 μ method. **2023**, 185, 108057 1
- 27 Influence of mass transfer on the estimation of the thermal conductivity of a wet material by the hot wire and parallel hot wire methods. **2023**, 202, 123732 ○

- 26 Investigation on thermal conductivity of decamethylcyclopentasiloxane (D5) and decamethyltetrasiloxane (MD2M) in the liquid phase. **2023**, 178, 106976 ○
- 25 Thermal Conductivity Measurements of Thermal Interface Materials Using the Bidirectional 3-Omega Method. **2022**, ○
- 24 Cross Thermal Conductivity of Aluminium Nitride Films and Thermal Resistance of AlN/Si and AlN/Al Interfaces. **2022**, 44, 989-1002 ○
- 23 Thermal Spin-Current Generation in the Multifunctional Ferrimagnet Ga_{0.6}Fe_{1.4}O₃. **2022**, 18, ○
- 22 A Time-domain Approach to the 3-omega Heat Conductivity Measurement Method. **2022**, ○
- 21 Fluid-compensated thermal flow sensor: A combination of the 3 ω method and constant temperature anemometry. **2022**, 114116 ○
- 20 Physical Origin of Negative Differential Resistance in V₃O₅ and Its Application as a Solid-state Oscillator. 2208477 ○
- 19 Micromachined Thermal Gas Sensors—A Review. **2023**, 23, 681 1
- 18 Thermal analysis of surface micromachined porous silicon membranes using the 3 ω method: Implications for thermal sensing. **2023**, 222, 119965 1
- 17 THERMAL CONDUCTIVITY OF InAs/AlSb SUPERLATTICES. **2023**, ○
- 16 Digital twin of an apparatus for combined thermoelectric measurements. **2023**, 13, 025036 ○
- 15 Depth-dependent recovery of thermal conductivity after recrystallization of amorphous silicon. **2023**, 133, 135101 ○
- 14 Transient multilayer analytical model of a line heat source probe for in-pile thermal conductivity measurements. **2023**, 188, 108241 ○
- 13 Growth of 2-inch diamond films on 4H-SiC substrate by microwave plasma CVD for enhanced thermal performance. **2023**, 211, 111895 ○
- 12 Modulating heat transport inside CNT assemblies: Multi-level optimization and structural synergy. **2023**, 205, 236-252 1
- 11 Three-sensor 3 ω method for the simultaneous measurement of thermal conductivity and thermal boundary resistance in film-on-substrate heterostructures. **2023**, 133, 045104 ○
- 10 High Thermal Conductivity Insulators for Thermal Management in 3D Integrated Circuits. **2023**, 44, 496-499 ○
- 9 Novel Thermal Conductivity Measurement Technique Utilizing a Transient Multilayer Analytical Model of a Line Heat Source Probe for Extreme Environments. **2023**, 129-138 ○

- 8 Energy relaxation in $(\text{La}_{0.6}\text{Pr}_{0.4})_{0.7}\text{Ca}_{0.3}\text{MnO}_3$. **2023**, 107,
- 7 Sensitivity Enhancement for Thermophysical Properties Measurements via the Vacuum Operation of Heater-integrated Fluidic Resonators. **2023**, 32, 39-43
- 6 Logarithmic sensitivity ratio elucidates thermal transport physics in multivariate thermorefectance experiments. **2023**,
- 5 Thickness-Dependent Cross-Plane Thermal Conductivity Measurements of Exfoliated Hexagonal Boron Nitride. **2023**, 15, 12545-12550
- 4 Advanced Thermophysical Properties Measurements Using Heater-Integrated Fluidic Resonators. **2023**,
- 3 Computing the Lattice Thermal Conductivity of Small-Molecule Organic Semiconductors: A Systematic Comparison of Molecular Dynamics Based Methods. 2200892
- 2 Using Thermal Interface Resistance for Noninvasive Operando Mapping of Buried Interfacial Lithium Morphology in Solid-State Batteries. **2023**, 15, 17344-17352
- 1 THERMAL CONDUCTIVITY OF DOPED POLYSILICON LAYERS. **2023**,