

Alexander A Minakov

List of Publications by Year in descending order

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62
papers

2,733
citations

218677

26
h-index

175258

52
g-index

65
all docs

65
docs citations

65
times ranked

1684
citing authors

#	ARTICLE	IF	CITATIONS
1	Melting and reorganization of poly(ethylene terephthalate) on fast heating (1000 K/s). <i>Polymer</i> , 2004, 45, 3755-3763.	3.8	262
2	Scanning microcalorimetry at high cooling rate. <i>Thermochimica Acta</i> , 2003, 403, 55-63.	2.7	242
3	Ultrafast thermal processing and nanocalorimetry at heating and cooling rates up to 1MK/s. <i>Review of Scientific Instruments</i> , 2007, 78, 073902.	1.3	211
4	Differential AC-chip calorimeter for glass transition measurements in ultrathin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 2996-3005.	2.1	163
5	Non-adiabatic thin-film (chip) nanocalorimetry. <i>Thermochimica Acta</i> , 2005, 432, 177-185.	2.7	149
6	Melting and crystallization of poly(butylene terephthalate) by temperature-modulated and superfast calorimetry. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 1364-1377.	2.1	123
7	Crystallization of polypropylene at various cooling rates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 413-414, 442-446.	5.6	120
8	Superheating in linear polymers studied by ultrafast nanocalorimetry. <i>European Physical Journal E</i> , 2007, 23, 43-53.	1.6	119
9	Melting and reorganization of the crystalline fraction and relaxation of the rigid amorphous fraction of isotactic polystyrene on fast heating (30,000K/min). <i>Thermochimica Acta</i> , 2006, 442, 25-30.	2.7	108
10	Crystallization of poly(vinylidene fluoride) during ultra-fast cooling. <i>Thermochimica Acta</i> , 2007, 461, 153-157.	2.7	107
11	Thin-film alternating current nanocalorimeter for low temperatures and high magnetic fields. <i>Review of Scientific Instruments</i> , 2005, 76, 043906.	1.3	82
12	Differential AC-chip calorimeter for glass transition measurements in ultra thin polymeric films. <i>European Physical Journal: Special Topics</i> , 2007, 141, 153-160.	2.6	80
13	Crystallization of poly(μ -caprolactone)/MWCNT composites: A combined SAXS/WAXS, electrical and thermal conductivity study. <i>Polymer</i> , 2014, 55, 2220-2232.	3.8	80
14	Advanced nonadiabatic ultrafast nanocalorimetry and superheating phenomenon in linear polymers. <i>Thermochimica Acta</i> , 2007, 461, 96-106.	2.7	72
15	Temperature distribution in a thin-film chip utilized for advanced nanocalorimetry. <i>Measurement Science and Technology</i> , 2006, 17, 199-207.	2.6	70
16	Isothermal reorganization of poly(ethylene terephthalate) revealed by fast calorimetry (1000 K/s). <i>Journal of Applied Physics</i> , 2007, 102, 044907.	3.2	69
17	Metastability of polymer crystallites formed at low temperature studied by ultra fast calorimetry: Polyamide 6 confined in sub-micrometer droplets vs. bulk PA6. <i>Polymer</i> , 2006, 47, 2172-2178.	3.8	56
18	Ultrasensitive detection enabled by nonlinear magnetization of nanomagnetic labels. <i>Nanoscale</i> , 2018, 10, 11642-11650.	5.6	48

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19	On the possibility of resolving quantization axes of surface spins by means of a scanning tunneling microscope with a magnetic tip. <i>Surface Science</i> , 1990, 236, L377-L381.	1.9	43
20	Advanced two-channel ac calorimeter for simultaneous measurements of complex heat capacity and complex thermal conductivity. <i>Thermochimica Acta</i> , 2003, 403, 89-103.	2.7	42
21	Improvement of AC calorimetry for simultaneous measurements of heat capacity and thermal conductivity of polymers. <i>Thermochimica Acta</i> , 1998, 317, 117-131.	2.7	35
22	Dynamics of the temperature distribution in ultra-fast thin-film calorimeter sensors. <i>Thermochimica Acta</i> , 2015, 603, 205-217.	2.7	32
23	Title is missing!. <i>Magyar Árvad Kzlemnyek</i> , 2000, 59, 279-288.	1.4	30
24	Ce ₂ Fe ₁₇ : Mixed valence or 4f band?. <i>Journal of Applied Physics</i> , 1993, 73, 5430-5432.	2.5	29
25	Advanced AC calorimetry of polycaprolactone in melting region. <i>Thermochimica Acta</i> , 1999, 330, 109-119.	2.7	28
26	Applicability of 8OCB for temperature calibration of temperature modulated calorimeters. <i>Thermochimica Acta</i> , 2000, 347, 53-61.	2.7	27
27	Critical behaviour of magnetic fluids near superparamagnetic- dipole-glass transition. <i>Journal of Magnetism and Magnetic Materials</i> , 1990, 85, 60-62.	2.3	26
28	Crystallization and Melting of Polycarbonate Studied by Temperature-Modulated DSC (TMDSC). <i>Magyar Árvad Kzlemnyek</i> , 2001, 64, 549-555.	1.4	24
29	High-speed dynamics of temperature distribution in ultrafast (up to 108 K/s) chip-nanocalorimeters, measured by infrared thermography of high resolution. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	23
30	Fast scanning calorimetry: Sublimation thermodynamics of low volatile and thermally unstable compounds. <i>Thermochimica Acta</i> , 2019, 676, 249-262.	2.7	23
31	Simultaneous measurements of complex heat capacity and complex thermal conductivity by two-channel AC calorimeter. <i>Thermochimica Acta</i> , 2001, 377, 173-182.	2.7	17
32	Heat conduction in ultrafast thin-film nanocalorimetry. <i>Thermochimica Acta</i> , 2016, 640, 42-51.	2.7	15
33	Low-temperature AC microcalorimetry: Possibilities and limitations. <i>Thermochimica Acta</i> , 1997, 304-305, 165-170.	2.7	14
34	Combining X-ray scattering with dielectric and calorimetric experiments for monitoring polymer crystallization. <i>European Polymer Journal</i> , 2009, 45, 3282-3291.	5.4	14
35	Thermal contact conductance in advanced AC calorimetry. <i>Thermochimica Acta</i> , 2000, 345, 3-12.	2.7	12
36	Fishtails and anisotropy in underdoped LaSrCuO single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 233, 67-76.	1.2	11

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37	Remanent magnetization of ceramic and single-crystal high- T_c superconductors in tilted magnetic fields. <i>Journal of Applied Physics</i> , 1996, 79, 1996-2002.	2.5	11
38	Temperature gradients in ultrafast thin-film nanocalorimetry. <i>Thermochimica Acta</i> , 2019, 677, 32-41.	2.7	10
39	Low-temperature AC microcalorimeter and potentialities of the AC technique. <i>Cryogenics</i> , 1994, 34, 461-464.	1.7	9
40	Nanoscale Heat Conduction in CNT-POLYMER Nanocomposites at Fast Thermal Perturbations. <i>Molecules</i> , 2019, 24, 2794.	3.8	9
41	Integro-Differential Equation for the Non-Equilibrium Thermal Response of Glass-Forming Materials: Analytical Solutions. <i>Symmetry</i> , 2021, 13, 256.	2.2	9
42	Variations of interfacial thermal conductance at melting and crystallization of an indium micro-particle in contact with a solid. <i>Materials and Design</i> , 2021, 201, 109475.	7.0	9
43	Testing the performance and the disintegration of biodegradable bags for the collection of organic wastes. <i>Macromolecular Symposia</i> , 2001, 165, 115-122.	0.7	8
44	Nanometer scale thermal response of polymers to fast thermal perturbations. <i>Journal of Chemical Physics</i> , 2018, 149, 074503.	3.0	8
45	Thermal contact conductance at melting and crystallization of metal micro-droplets. <i>Materials Research Express</i> , 2020, 7, 066524.	1.6	8
46	Magnetostriction and antiferromagnetic domains dynamics in helical antiferromagnets. <i>Journal of Magnetism and Magnetic Materials</i> , 1990, 88, 121-133.	2.3	7
47	Dynamic heat capacity measurements in advanced AC calorimetry. <i>Thermochimica Acta</i> , 1999, 342, 7-18.	2.7	6
48	Low-temperature anomalies in the specific heat and thermal conductivity of MgB ₂ . <i>Physics of the Solid State</i> , 2003, 45, 1207-1212.	0.6	6
49	Anomalous low-temperature behavior of the thermal characteristics of MgB ₂ . <i>Journal of Experimental and Theoretical Physics</i> , 2003, 97, 70-77.	0.9	6
50	Non-equilibrium fast thermal response of polymers. <i>Thermochimica Acta</i> , 2018, 660, 82-93.	2.7	6
51	Local enhancement of the upper critical field in niobium point contacts. <i>Superconductor Science and Technology</i> , 2005, 18, 1176-1178.	3.5	5
52	Molecular dynamics revealed from frequency dependent heat capacity. <i>Macromolecular Symposia</i> , 2001, 165, 83-90.	0.7	3
53	The mixed state of RBaCuO ceramic superconductors. <i>Journal of the Less Common Metals</i> , 1990, 164-165, 1099-1105.	0.8	2
54	Simultaneous Calorimetric, Dielectric, and SAXS/WAXS Experiments During Polymer Crystallization. <i>Lecture Notes in Physics</i> , 2009, , 217-230.	0.7	2

#	ARTICLE	IF	CITATIONS
55	Determination of the local magnetization caused by short-range order from the paraprocess magnetostriction dependences of a ferromagnet. IEEE Transactions on Magnetics, 1990, 26, 2840-2842.	2.1	1
56	The possibility of surface spins' quantization axes resolution by means of scanning tunneling microscope with magnetic tip. Physica B: Condensed Matter, 1990, 165-166, 241-242.	2.7	1
57	Orientation of the flux line lattice in anisotropic superconductors. Journal of Magnetism and Magnetic Materials, 1996, 157-158, 671-672.	2.3	1
58	Low temperature antiferromagnetic domains dynamics in helical antiferromagnets. Physica B: Condensed Matter, 1990, 165-166, 243-244.	2.7	0
59	Remanent magnetization of superconductors in tilted magnetic fields. Physica C: Superconductivity and Its Applications, 1994, 235-240, 2933-2934.	1.2	0
60	Anomalous shift of magnetic resonance line in disordered and noncollinear magnetics. IEEE Transactions on Magnetics, 1994, 30, 985-987.	2.1	0
61	A low-temperature ac microcalorimeter. IEEE Transactions on Magnetics, 1994, 30, 1058-1060.	2.1	0
62	Maximum Possible Cooling Rate in Ultrafast Chip Nanocalorimetry: Fundamental Limitations Due to Thermal Resistance at the Membrane/Gas Interface. Applied Sciences (Switzerland), 2021, 11, 8224.	2.5	0