

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 | Integro-Differential Equation for the Non-Equilibrium Thermal Response of Glass-Forming Materials: Analytical Solutions. <i>Symmetry</i> , 2021, 13, 256. | 2.2 | 9 |
| 2 | 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 |
| 3 | Maximum Possible Cooling Rate in Ultrafast Chip Nanocalorimetry: Fundamental Limitations Due to Thermal Resistance at the Membrane/Gas Interface. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8224. | 2.5 | 0 |
| 4 | Thermal contact conductance at melting and crystallization of metal micro-droplets. <i>Materials Research Express</i> , 2020, 7, 066524. | 1.6 | 8 |
| 5 | Nanoscale Heat Conduction in CNT-POLYMER Nanocomposites at Fast Thermal Perturbations. <i>Molecules</i> , 2019, 24, 2794. | 3.8 | 9 |
| 6 | Temperature gradients in ultrafast thin-film nanocalorimetry. <i>Thermochimica Acta</i> , 2019, 677, 32-41. | 2.7 | 10 |
| 7 | 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 |
| 8 | Fast scanning calorimetry: Sublimation thermodynamics of low volatile and thermally unstable compounds. <i>Thermochimica Acta</i> , 2019, 676, 249-262. | 2.7 | 23 |
| 9 | Non-equilibrium fast thermal response of polymers. <i>Thermochimica Acta</i> , 2018, 660, 82-93. | 2.7 | 6 |
| 10 | Nanometer scale thermal response of polymers to fast thermal perturbations. <i>Journal of Chemical Physics</i> , 2018, 149, 074503. | 3.0 | 8 |
| 11 | Ultrasensitive detection enabled by nonlinear magnetization of nanomagnetic labels. <i>Nanoscale</i> , 2018, 10, 11642-11650. | 5.6 | 48 |
| 12 | Heat conduction in ultrafast thin-film nanocalorimetry. <i>Thermochimica Acta</i> , 2016, 640, 42-51. | 2.7 | 15 |
| 13 | Dynamics of the temperature distribution in ultra-fast thin-film calorimeter sensors. <i>Thermochimica Acta</i> , 2015, 603, 205-217. | 2.7 | 32 |
| 14 | 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 |
| 15 | 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 |
| 16 | Simultaneous Calorimetric, Dielectric, and SAXS/WAXS Experiments During Polymer Crystallization. <i>Lecture Notes in Physics</i> , 2009, , 217-230. | 0.7 | 2 |
| 17 | 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 |
| 18 | Advanced nonadiabatic ultrafast nanocalorimetry and superheating phenomenon in linear polymers. <i>Thermochimica Acta</i> , 2007, 461, 96-106. | 2.7 | 72 |

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|----|---|-----|-----------|
| 19 | Crystallization of poly(vinylidene fluoride) during ultra-fast cooling. <i>Thermochimica Acta</i> , 2007, 461, 153-157. | 2.7 | 107 |
| 20 | Superheating in linear polymers studied by ultrafast nanocalorimetry. <i>European Physical Journal E</i> , 2007, 23, 43-53. | 1.6 | 119 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | Temperature distribution in a thin-film chip utilized for advanced nanocalorimetry. <i>Measurement Science and Technology</i> , 2006, 17, 199-207. | 2.6 | 70 |
| 27 | 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 |
| 28 | Non-adiabatic thin-film (chip) nanocalorimetry. <i>Thermochimica Acta</i> , 2005, 432, 177-185. | 2.7 | 149 |
| 29 | Local enhancement of the upper critical field in niobium point contacts. <i>Superconductor Science and Technology</i> , 2005, 18, 1176-1178. | 3.5 | 5 |
| 30 | Thin-film alternating current nanocalorimeter for low temperatures and high magnetic fields. <i>Review of Scientific Instruments</i> , 2005, 76, 043906. | 1.3 | 82 |
| 31 | Isothermal reorganization of poly(ethylene terephthalate) revealed by fast calorimetry (1000 K s ⁻¹ ; 5 T). <i>ETQq1 1 0,784314 rgBT / O</i> | 3.2 | 69 |
| 32 | Melting and reorganization of poly(ethylene terephthalate) on fast heating (1000 K/s). <i>Polymer</i> , 2004, 45, 3755-3763. | 3.8 | 262 |
| 33 | 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 |
| 34 | Scanning microcalorimetry at high cooling rate. <i>Thermochimica Acta</i> , 2003, 403, 55-63. | 2.7 | 242 |
| 35 | 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 |
| 36 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | 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 |
| 38 | Molecular dynamics revealed from frequency dependent heat capacity. <i>Macromolecular Symposia</i> , 2001, 165, 83-90. | 0.7 | 3 |
| 39 | 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 |
| 40 | Crystallization and Melting of Polycarbonate Studied by Temperature-Modulated DSC (TMDSC). <i>Magyar Árvad Kzlemnyek</i> , 2001, 64, 549-555. | 1.4 | 24 |
| 41 | Thermal contact conductance in advanced AC calorimetry. <i>Thermochimica Acta</i> , 2000, 345, 3-12. | 2.7 | 12 |
| 42 | Applicability of 80CB for temperature calibration of temperature modulated calorimeters. <i>Thermochimica Acta</i> , 2000, 347, 53-61. | 2.7 | 27 |
| 43 | Title is missing!. <i>Magyar Árvad Kzlemnyek</i> , 2000, 59, 279-288. | 1.4 | 30 |
| 44 | Advanced AC calorimetry of polycaprolactone in melting region. <i>Thermochimica Acta</i> , 1999, 330, 109-119. | 2.7 | 28 |
| 45 | Dynamic heat capacity measurements in advanced AC calorimetry. <i>Thermochimica Acta</i> , 1999, 342, 7-18. | 2.7 | 6 |
| 46 | 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 |
| 47 | Low-temperature AC microcalorimetry: Possibilities and limitations. <i>Thermochimica Acta</i> , 1997, 304-305, 165-170. | 2.7 | 14 |
| 48 | Orientation of the flux line lattice in anisotropic superconductors. <i>Journal of Magnetism and Magnetic Materials</i> , 1996, 157-158, 671-672. | 2.3 | 1 |
| 49 | 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 |
| 50 | Fishtails and anisotropy in underdoped LaSrCuO single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 233, 67-76. | 1.2 | 11 |
| 51 | Remanent magnetization of superconductors in tilted magnetic fields. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 235-240, 2933-2934. | 1.2 | 0 |
| 52 | Low-temperature AC microcalorimeter and potentialities of the AC technique. <i>Cryogenics</i> , 1994, 34, 461-464. | 1.7 | 9 |
| 53 | Anomalous shift of magnetic resonance line in disordered and noncollinear magnetics. <i>IEEE Transactions on Magnetics</i> , 1994, 30, 985-987. | 2.1 | 0 |
| 54 | A low-temperature ac microcalorimeter. <i>IEEE Transactions on Magnetics</i> , 1994, 30, 1058-1060. | 2.1 | 0 |

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|----|---|-----|-----------|
| 55 | Ce2Fe17: Mixed valence or 4fband?. Journal of Applied Physics, 1993, 73, 5430-5432. | 2.5 | 29 |
| 56 | 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 |
| 57 | Magnetostriction and antiferromagnetic domains dynamics in helical antiferromagnets. Journal of Magnetism and Magnetic Materials, 1990, 88, 121-133. | 2.3 | 7 |
| 58 | Critical behaviour of magnetic fluids near superparamagnetic- dipole-glass transition. Journal of Magnetism and Magnetic Materials, 1990, 85, 60-62. | 2.3 | 26 |
| 59 | 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 |
| 60 | Low temperature antiferromagnetic domains dynamics in helical antiferromagnets. Physica B: Condensed Matter, 1990, 165-166, 243-244. | 2.7 | 0 |
| 61 | The mixed state of RBaCuO ceramic superconductors. Journal of the Less Common Metals, 1990, 164-165, 1099-1105. | 0.8 | 2 |
| 62 | On the possibility of resolving quantization axes of surface spins by means of a scanning tunneling microscope with a magnetic tip. Surface Science, 1990, 236, L377-L381. | 1.9 | 43 |