Evgeny Zhuravlev

List of Publications by Year
in descending order

66 papers	3,191 citations	136740 32 h-index	149479 56 g-index
67 all docs	67 docs citations	67 times ranked	1856 citing authors

#	Article	IF	Citations
1	Fast scanning power compensated differential scanning nano-calorimeter: 1. The device. Thermochimica Acta, 2010, 505, 1-13.	1.2	301
2	Kinetics of nucleation and crystallization in poly(É›-caprolactone) (PCL). Polymer, 2011, 52, 1983-1997.	1.8	224
3	Fast scanning power compensated differential scanning nano-calorimeter: 2. Heat capacity analysis. Thermochimica Acta, 2010, 505, 14-21.	1.2	185
4	Beating the Heat - Fast Scanning Melts Silk Beta Sheet Crystals. Scientific Reports, 2013, 3, 1130.	1.6	143
5	Crystallization and Homogeneous Nucleation Kinetics ofÂPoly(Îµ-caprolactone) (PCL) with Different Molar Masses. Macromolecules, 2012, 45, 3816-3828.	2.2	134
6	Kinetics of nucleation and crystallization of poly(Îµ-caprolactone) â€“ Multiwalled carbon nanotube composites. European Polymer Journal, 2014, 52, 1-11.	2.6	126
7	Temperature of Melting of the Mesophase of Isotactic Polypropylene. Macromolecules, 2009, 42, 7275-7278.	2.2	96
8	Solid-state reorganization, melting and melt-recrystallization of conformationally disordered crystals (Î±â€²-phase) of poly (l-lactic acid). Polymer, 2014, 55, 4932-4941.	1.8	95
9	Silk I and Silk II studied by fast scanning calorimetry. Acta Biomaterialia, 2017, 55, 323-332.	4.1	92
10	Experimental Test of Tammannâ€™s Nuclei Development Approach in Crystallization of Macromolecules. Crystal Growth and Design, 2015, 15, 786-798.	1.4	88
11	Crystallization of Polyethylene at Large Undercooling. ACS Macro Letters, 2016, 5, 365-370.	2.3	84
12	Morphology of mesophase and crystals of polyamide 6 prepared in a fast scanning chip calorimeter. Polymer, 2012, 53, 3994-4001.	1.8	83
13	Homogeneous nucleation and mesophase formation in glassy isotactic polypropylene. Polymer, 2012, 53, 277-282.	1.8	83
14	Nonisothermal Crystallization of Polytetrafluoroethylene in a Wide Range of Cooling Rates. Journal of Physical Chemistry B, 2013, 117, 3407-3415.	1.2	82
15	Using flash DSC for determining the liquid state heat capacity of silk fibroin. Thermochimica Acta, 2015, 615, 8-14.	1.2	78
16	Experimental Test of Tammann's Nuclei Development Approach in Crystallization of Macromolecules. International Polymer Processing, 2016, 31, 628-637.	0.3	76
17	Calorimetric measurements of undercooling in single micron sized SnAgCu particles in a wide range of cooling rates. Thermochimica Acta, 2009, 482, 1-7.	1.2	74
18	Nanoparticles of SnAgCu lead-free solder alloy with an equivalent melting temperature of SnPb solder alloy. Journal of Alloys and Compounds, 2009, 484, 777-781.	2.8	71

#	Article	IF	Citations
19	Kinetics of nucleation and crystallization in poly(butylene succinate) nanocomposites. Polymer, 2014, 55, 6725-6734.	1.8	65
20	Melting and recrystallization kinetics of poly(butylene terephthalate). Polymer, 2017, 109, 307-314.	1.8	54
21	Fundamental thermal properties of polyvinyl alcohol by fast scanning calorimetry. Polymer, 2018, 137, 145-155.	1.8	54
22	Cooling rate dependence of undercooling of pure Sn single drop by fast scanning calorimetry. Applied Physics A: Materials Science and Processing, 2011, 104, 189-196.	1.1	52
23	Isotropization, perfection and reorganization of the mesophase of isotactic polypropylene. Thermochimica Acta, 2011, 522, 100-109.	1.2	47
24	Size and rate dependence of crystal nucleation in single tin drops by fast scanning calorimetry. Journal of Chemical Physics, 2013, 138, 054501.	1.2	47
25	Two crystal populations with different melting/reorganization kinetics of isothermally crystallized polyamide 6. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 2126-2138.	2.4	47
26	Temperature Dependency of Nucleation Efficiency of Carbon Nanotubes in PET and PBT. Macromolecular Materials and Engineering, 2015, 300, 637-649.	1.7	45
27	Heat of fusion of polymer crystals by fast scanning calorimetry. Polymer, 2017, 126, 240-247.	1.8	42
28	Relaxation and crystal nucleation in polymer glasses. European Polymer Journal, 2018, 102, 195-208.	2.6	37
29	Quantitative understanding of two distinct melting kinetics of an isothermally crystallized poly(ether ether ketone). Polymer, 2016, 99, 97-104.	1.8	36
30	Critical rate of cooling for suppression of crystallization in random copolymers of propylene with ethylene and 1-butene. Thermochimica Acta, 2009, 492, 67-72.	1.2	35
31	Characterization of the copolymer poly(ethyleneglycol-g-vinylalcohol) as a potential carrier in the formulation of solid dispersions. European Journal of Pharmaceutics and Biopharmaceutics, 2010, 74, 239-247.	2.0	33
32	Formation and reorganization of the mesophase of random copolymers of propylene and 1-butene. Polymer, 2011, 52, 1107-1115.	1.8	33
33	Repeated nucleation in an undercooled tin droplet by fast scanning calorimetry. Materials Letters, 2009, 63, 2476-2478.	1.3	30
34	Competitive Crystallization of a Propylene/Ethylene Random Copolymer Filled with a Î²-Nucleating Agent and Multi-Walled Carbon Nanotubes. Conventional and Ultrafast DSC Study. Journal of Physical Chemistry B, 2013, 117, 14875-14884.	1.2	27
35	The effect of self-nucleation on isothermal crystallization kinetics of poly(butylene succinate) (PBS) investigated by differential fast scanning calorimetry. Chinese Journal of Polymer Science (English) Tj ETQq1 1 0.784314 rgBT /Overlock		
36	Interplay between Free Surface and Solid Interface Nucleation on Two-Step Crystallization of Poly(ethylene terephthalate) Thin Films Studied by Fast Scanning Calorimetry. Macromolecules, 2018, 51, 5209-5218.	2.2	26

#	Article	IF	Citations
37	Kinetics of isothermal and non-isothermal crystallization of poly(vinylidene fluoride) by fast scanning calorimetry. Polymer, 2016, 82, 40-48.	1.8	24
38	Crystallization kinetics of poly(butylene terephthalate) and its talc composites. Journal of Applied Polymer Science, 2017, 134, .	1.3	23
39	High-speed dynamics of temperature distribution in ultrafast (up to 108â€‰K/s) chip-nanocalorimeters, measured by infrared thermography of high resolution. Journal of Applied Physics, 2019, 125, .	1.1	23
40	Assessment of AlZnMgCu alloy powder modification for crack-free laser powder bed fusion by differential fast scanning calorimetry. Materials and Design, 2021, 204, 109677.	3.3	20
41	A transient polymorph transition of 4-cyano-4â€²-octyloxybiphenyl (8OCB) revealed by ultrafast differential scanning calorimetry (UFDSC). Soft Matter, 2013, 9, 1488-1491.	1.2	19
42	Dependence of mechanical properties and microstructure on solidification onset temperature for Al2024â€“CaB6 alloys processed using laser powder bed fusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 833, 142552.	2.6	19
43	Vitrification and crystallization of poly(butylene-2,6-naphthalate). Thermochimica Acta, 2015, 603, 110-115.	1.2	18
44	Steady-State Crystal Nucleation Rate of Polyamide 66 by Combining Atomic Force Microscopy and Fast-Scanning Chip Calorimetry. Macromolecules, 2020, 53, 5560-5571.	2.2	18
45	Multiamorphous Phases in Diketopyrrolopyrrole-Based Conjugated Polymers: From Bulk to Ultrathin Films. Macromolecules, 2020, 53, 4480-4489.	2.2	18
46	Size-dependent undercooling of pure Sn by single particle DSC measurements. Science Bulletin, 2010, 55, 2063-2065.	1.7	17
47	Formation and Reorganization of the Mesophase of Isotactic Polypropylene. Molecular Crystals and Liquid Crystals, 2012, 556, 74-83.	0.4	17
48	Visualization of Polymer Crystallization by In Situ Combination of Atomic Force Microscopy and Fast Scanning Calorimetry. Polymers, 2019, 11, 890.	2.0	16
49	Fingerprints of homogeneous nucleation and crystal growth in polyamide 66 as studied by combined infrared spectroscopy and fast scanning chip calorimetry. Colloid and Polymer Science, 2020, 298, 697-706.	1.0	12
50	How colloidal surface additivation of polyamide 12 powders with well-dispersed silver nanoparticles influences the crystallization already at low 0.01 vol%. Additive Manufacturing, 2020, 36, 101419.	1.7	11
51	Verifying the symmetry of ultra-fast scanning calorimeters using liquid crystal secondary temperature standards. Thermochimica Acta, 2011, 526, 58-64.	1.2	10
52	Nucleation and crystallization kinetics of polyamide 12 investigated by fast scanning calorimetry. Journal of Polymer Science, 2022, 60, 842-855.	2.0	10
53	Non-Adiabatic Scanning Calorimeter for Controlled Fast Cooling and Heating. , 2016, , 81-104.		8
54	Homogeneous nucleation in polyamide 66, a two-stage process as revealed by combined nanocalorimetry and IR spectroscopy. Colloid and Polymer Science, 2022, 300, 1247-1255.	1.0	8

#	Article	IF	Citations
55	1. Influence of Thermal Prehistory on Crystal Nucleation and Growth in Polymers. , 2014, , 1-94.		7
56	Molecular weight and interfacial effect on the kinetic stabilization of ultrathin polystyrene films. Polymer, 2018, 134, 204-210.	1.8	6
57	Requirements for Processing High-Strength AlZnMgCu Alloys with PBF-LB/M to Achieve Crack-Free and Dense Parts. Materials, 2021, 14, 7190.	1.3	6
58	Zero-Entropy-Production Melting Temperature of Crystals of Poly(butylene succinate) Formed at High Supercooling of the Melt. Macromolecules, 2022, 55, 965-970.	2.2	6
59	Microwave calorimetry using X-rays. Thermochimica Acta, 2011, 526, 137-142.	1.2	5
60	Fast Scanning Calorimetry of Silk Fibroin Protein: Sample Mass and Specific Heat Capacity Determination. , 2016, , 187-203.		4
61	Extending Cooling Rate Performance of Fast Scanning Chip Calorimetry by Liquid Droplet Cooling. Applied Sciences (Switzerland), 2021, 11, 3813.	1.3	4
62	Reorganization of Lamellar Diblock Copolymer Poly(Îµâ€caprolactone)â€blockâ€poly(4â€vinylpyridine) in the Melting Temperature Range. Macromolecular Chemistry and Physics, 2015, 216, 2211-2220.	1.1	3
63	Kinetics of homogeneous crystal nucleation of polyamide 11 near the glass transition temperature. Polymer Crystallization, 2021, 4, .	0.5	3
64	Surface Crystal Nucleation and Growth in Poly (Îµ-caprolactone): Atomic Force Microscopy Combined with Fast Scanning Chip Calorimetry. Polymers, 2021, 13, 2008.	2.0	2
65	Surface Inoculation of Aluminium Powders for Additive Manufacturing Guided by Differential Fast Scanning Calorimetry. Minerals, Metals and Materials Series, 2019, , 485-493.	0.3	1
66	A <scp>DSC</scp> study of polypropylene chain branching effects on structure formation under rapid cooling and reheating from the amorphous glass. Polymer Crystallization, 2020, 3, e10142.	0.5	0