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	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
2	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
3	Nucleation and crystallization kinetics of polyamide 12 investigated by fast scanning calorimetry. Journal of Polymer Science, 2022, 60, 842-855.	2.0	10
4	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
5	Kinetics of homogeneous crystal nucleation of polyamide 11 near the glass transition temperature. Polymer Crystallization, 2021, 4, .	0.5	3
6	Extending Cooling Rate Performance of Fast Scanning Chip Calorimetry by Liquid Droplet Cooling. Applied Sciences (Switzerland), 2021, 11, 3813.	1.3	4
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	Multiamorphous Phases in Diketopyrrolopyrrole-Based Conjugated Polymers: From Bulk to Ultrathin Films. Macromolecules, 2020, 53, 4480-4489.	2.2	18
15	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
16	Visualization of Polymer Crystallization by In Situ Combination of Atomic Force Microscopy and Fast Scanning Calorimetry. Polymers, 2019, 11, 890.	2.0	16
17	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
18	Fundamental thermal properties of polyvinyl alcohol by fast scanning calorimetry. Polymer, 2018, 137, 145-155.	1.8	54

#	Article	IF	Citations
19	Relaxation and crystal nucleation in polymer glasses. European Polymer Journal, 2018, 102, 195-208.	2.6	37
20	Molecular weight and interfacial effect on the kinetic stabilization of ultrathin polystyrene films. Polymer, 2018, 134, 204-210.	1.8	6
21	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
22	Crystallization kinetics of poly(butylene terephthalate) and its talc composites. Journal of Applied Polymer Science, 2017, 134, .	1.3	23
23	Silk I and Silk II studied by fast scanning calorimetry. Acta Biomaterialia, 2017, 55, 323-332.	4.1	92
24	Melting and recrystallization kinetics of poly(butylene terephthalate). Polymer, 2017, 109, 307-314.	1.8	54
25	Heat of fusion of polymer crystals by fast scanning calorimetry. Polymer, 2017, 126, 240-247.	1.8	42
26	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 ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.1	27
27	Non-Adiabatic Scanning Calorimeter for Controlled Fast Cooling and Heating. , 2016, , 81-104.		8
28	Fast Scanning Calorimetry of Silk Fibroin Protein: Sample Mass and Specific Heat Capacity Determination. , 2016, , 187-203.		4
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	Experimental Test of Tammann's Nuclei Development Approach in Crystallization of Macromolecules. International Polymer Processing, 2016, 31, 628-637.	0.3	76
31	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
32	Crystallization of Polyethylene at Large Undercooling. ACS Macro Letters, 2016, 5, 365-370.	2.3	84
33	Kinetics of isothermal and non-isothermal crystallization of poly(vinylidene fluoride) by fast scanning calorimetry. Polymer, 2016, 82, 40-48.	1.8	24
34	Temperature Dependency of Nucleation Efficiency of Carbon Nanotubes in PET and PBT. Macromolecular Materials and Engineering, 2015, 300, 637-649.	1.7	45
35	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
36	Experimental Test of Tammannâ€™s Nuclei Development Approach in Crystallization of Macromolecules. Crystal Growth and Design, 2015, 15, 786-798.	1.4	88

#	Article	IF	Citations
37	Vitrification and crystallization of poly(butylene-2,6-naphthalate). Thermochimica Acta, 2015, 603, 110-115.	1.2	18
38	Using flash DSC for determining the liquid state heat capacity of silk fibroin. Thermochimica Acta, 2015, 615, 8-14.	1.2	78
39	1. Influence of Thermal Prehistory on Crystal Nucleation and Growth in Polymers. , 2014, , 1-94.		7
40	Kinetics of nucleation and crystallization in poly(butylene succinate) nanocomposites. Polymer, 2014, 55, 6725-6734.	1.8	65
41	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
42	Kinetics of nucleation and crystallization of poly(Îµ-caprolactone) â€“ Multiwalled carbon nanotube composites. European Polymer Journal, 2014, 52, 1-11.	2.6	126
43	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
44	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
45	Nonisothermal Crystallization of Polytetrafluoroethylene in a Wide Range of Cooling Rates. Journal of Physical Chemistry B, 2013, 117, 3407-3415.	1.2	82
46	Beating the Heat - Fast Scanning Melts Silk Beta Sheet Crystals. Scientific Reports, 2013, 3, 1130.	1.6	143
47	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
48	Formation and Reorganization of the Mesophase of Isotactic Polypropylene. Molecular Crystals and Liquid Crystals, 2012, 556, 74-83.	0.4	17
49	Crystallization and Homogeneous Nucleation Kinetics ofÂPoly(Îµ-caprolactone) (PCL) with Different Molar Masses. Macromolecules, 2012, 45, 3816-3828.	2.2	134
50	Morphology of mesophase and crystals of polyamide 6 prepared in a fast scanning chip calorimeter. Polymer, 2012, 53, 3994-4001.	1.8	83
51	Homogeneous nucleation and mesophase formation in glassy isotactic polypropylene. Polymer, 2012, 53, 277-282.	1.8	83
52	Verifying the symmetry of ultra-fast scanning calorimeters using liquid crystal secondary temperature standards. Thermochimica Acta, 2011, 526, 58-64.	1.2	10
53	Microwave calorimetry using X-rays. Thermochimica Acta, 2011, 526, 137-142.	1.2	5
54	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

#	Article	IF	Citations
55	Formation and reorganization of the mesophase of random copolymers of propylene and 1-butene. Polymer, 2011, 52, 1107-1115.	1.8	33
56	Kinetics of nucleation and crystallization in poly(É›-caprolactone) (PCL). Polymer, 2011, 52, 1983-1997.	1.8	224
57	Isotropization, perfection and reorganization of the mesophase of isotactic polypropylene. Thermochimica Acta, 2011, 522, 100-109.	1.2	47
58	Size-dependent undercooling of pure Sn by single particle DSC measurements. Science Bulletin, 2010, 55, 2063-2065.	1.7	17
59	Fast scanning power compensated differential scanning nano-calorimeter: 1. The device. Thermochimica Acta, 2010, 505, 1-13.	1.2	301
60	Fast scanning power compensated differential scanning nano-calorimeter: 2. Heat capacity analysis. Thermochimica Acta, 2010, 505, 14-21.	1.2	185
61	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
62	Repeated nucleation in an undercooled tin droplet by fast scanning calorimetry. Materials Letters, 2009, 63, 2476-2478.	1.3	30
63	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
64	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
65	Temperature of Melting of the Mesophase of Isotactic Polypropylene. Macromolecules, 2009, 42, 7275-7278.	2.2	96
66	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