Christoph Schick

List of Publications by Citations

428 papers	16,453 citations	68 h-index	104 g-index
459 ext. papers	18,101 ext. citations	4 avg, IF	7.01 L-index

#	Paper	IF	Citations
428	Characteristic Length of Dynamic Glass Transition near Tg for a Wide Assortment of Glass-Forming Substances. *Journal of Physical Chemistry B*, **2000**, 104, 2460-2466	3.4	309
427	The amount of immobilized polymer in PMMA SiO2 nanocomposites determined from calorimetric data. *European Polymer Journal*, **2007**, 43, 3113-3127	5.2	295
426	Fast scanning power compensated differential scanning nano-calorimeter: 1. The device. *Thermochimica Acta*, **2010**, 505, 1-13	2.9	263
425	Melting and reorganization of poly(ethylene terephthalate) on fast heating (1000 K/s). *Polymer*, **2004**, 45, 3755-3763	3.9	240
424	Scanning microcalorimetry at high cooling rate. *Thermochimica Acta*, **2003**, 403, 55-63	2.9	227
423	Mesophases in polyethylene, polypropylene, and poly(1-butene). *Polymer*, **2010**, 51, 4639-4662	3.9	216
422	Differential scanning calorimetry (DSC) of semicrystalline polymers. *Analytical and Bioanalytical Chemistry*, **2009**, 395, 1589-611	4.4	215
421	High and selective CO2 uptake, H2storage and methanol sensing on the amine-decorated 12-connected MOF CAU-1. *Energy and Environmental Science*, **2011**, 4, 4522	35.4	207
420	Nanosized Cu-MOFs induced by graphene oxide and enhanced gas storage capacity. *Energy and Environmental Science*, **2013**, 6, 818	35.4	199
419	Kinetics of nucleation and crystallization in poly(e-caprolactone) (PCL). *Polymer*, **2011**, 52, 1983-1997	3.9	197
418	Glassy Dynamics and Glass Transition in Nanometric Thin Layers of Polystyrene. *Macromolecules*, **2010**, 43, 9937-9944	5.5	195
417	Improvement of Quality in Publication of Experimental Thermophysical Property Data: Challenges, Assessment Tools, Global Implementation, and Online Support. *Journal of Chemical & Engineering Data*, **2013**, 58, 2699-2716	2.8	187
416	Ultrafast thermal processing and nanocalorimetry at heating and cooling rates up to 1 MK/s. *Review of Scientific Instruments*, **2007**, 78, 073902	1.7	184
415	Insights into polymer crystallization and melting from fast scanning chip calorimetry. *Polymer*, **2016** , 91, 239-263	3.9	171
414	Fast scanning power compensated differential scanning nano-calorimeter: 2. Heat capacity analysis. *Thermochimica Acta*, **2010**, 505, 14-21	2.9	163
413	Scanning Nanocalorimetry at High Cooling Rate of Isotactic Polypropylene. *Macromolecules*, **2006**, 39, 2562-2567	5.5	161
412	Differential AC-chip calorimeter for glass transition measurements in ultrathin films. *Journal of Polymer Science, Part B: Polymer Physics*, **2006**, 44, 2996-3005	2.6	157

411	Making sense of enthalpy of vaporization trends for ionic liquids: new experimental and simulation data show a simple linear relationship and help reconcile previous data. *Journal of Physical Chemistry B*, **2013**, 117, 6473-86	3.4	142
410	Retarded Crystallization in Polyamide/Layered Silicates Nanocomposites caused by an Immobilized Interphase. *Macromolecules*, **2010**, 43, 1480-1487	5.5	142
409	Non-adiabatic thin-film (chip) nanocalorimetry. *Thermochimica Acta*, **2005**, 432, 177-185	2.9	137
408	Modulated differential scanning calorimetry in the glass transition region. *Thermochimica Acta*, **1995**, 266, 97-111	2.9	136
407	Phase angle correction for TMDSC in the glass-transition region. *Thermochimica Acta*, **1997**, 304-305, 267-275	2.9	135
406	Glassy Dynamics in Thin Polymer Layers Having a Free Upper Interface. *Macromolecules*, **2008**, 41, 3636-3639	5.5	135
405	Vitrification and devitrification of the rigid amorphous fraction of semicrystalline polymers revealed from frequency-dependent heat capacity. *Colloid and Polymer Science*, **2001**, 279, 800-806	2.4	134
404	Isothermal Nanocalorimetry of Isotactic Polypropylene. *Macromolecules*, **2007**, 40, 9026-9031	5.5	133
403	Liquid Organic Hydrogen Carriers: Thermophysical and Thermochemical Studies of Benzyl- and Dibenzyl-toluene Derivatives. *Industrial & Engineering Chemistry Research*, **2015**, 54, 7967-7976	3.9	129
402	Crystallization and Homogeneous Nucleation Kinetics of Poly(ε-caprolactone) (PCL) with Different Molar Masses. *Macromolecules*, **2012**, 45, 3816-3828	5.5	125
401	Beating the heat--fast scanning melts silk beta sheet crystals. *Scientific Reports*, **2013**, 3, 1130	4.9	121
400	Glassy dynamics of polymers confined to nanoporous glasses revealed by relaxational and scattering experiments. *European Physical Journal E*, **2003**, 12, 173-8	1.5	119
399	Continuous cooling precipitation diagrams of Al-Mg-Si alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 550, 87-96	5.3	117
398	Dielectric spectroscopy and calorimetry in the glass transition region of semi-crystalline poly(ethylene terephthalate). *Journal of Thermal Analysis*, **1996**, 47, 1027-1040		115
397	Kinetics of nucleation and crystallization of poly(ε-caprolactone)-Multiwalled carbon nanotube composites. *European Polymer Journal*, **2014**, 52, 1-11	5.2	114
396	Melting and crystallization of poly(butylene terephthalate) by temperature-modulated and superfast calorimetry. *Journal of Polymer Science, Part B: Polymer Physics*, **2006**, 44, 1364-1377	2.6	114
395	Characteristic length of glass transition: experimental evidence. *Physica Scripta*, **1991**, 43, 423-429	2.6	114
394	Machine-learning-assisted discovery of polymers with high thermal conductivity using a molecular design algorithm. *Npj Computational Materials*, **2019**, 5,	10.9	112

393	Effect of Supercooling on Crystallization of Polyamide 11. *Macromolecules*, **2013**, 46, 828-835	5.5	109
392	Formation and disappearance of the rigid amorphous fraction in semicrystalline polymers revealed from frequency dependent heat capacity. *Thermochimica Acta*, **2003**, 396, 119-132	2.9	107
391	Crystallization of polypropylene at various cooling rates. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2005**, 413-414, 442-446	5.3	107
390	Comparing calorimetric and dielectric polarization modes in viscous 2-ethyl-1-hexanol. *Journal of Chemical Physics*, **2007**, 126, 104503	3.9	104
389	Melting and reorganization of the crystalline fraction and relaxation of the rigid amorphous fraction of isotactic polystyrene on fast heating (30,000K/min). *Thermochimica Acta*, **2006**, 442, 25-30	2.9	102
388	Segmental and chain dynamics of polymers: from the bulk to the confined state. *Journal of Non-Crystalline Solids*, **2002**, 305, 140-149	3.9	102
387	Isothermal Crystallization of Isotactic Poly(propylene) Studied by Superfast Calorimetry. *Macromolecular Rapid Communications*, **2007**, 28, 875-881	4.8	101
386	Polymers in nanoconfinement: What can be learned from relaxation and scattering experiments?. *Journal of Non-Crystalline Solids*, **2005**, 351, 2668-2677	3.9	101
385	Temperature modulated calorimetry and dielectric spectroscopy in the glass transition region of polymers. *Journal of Thermal Analysis*, **1996**, 46, 935-954		101
384	Superheating in linear polymers studied by ultrafast nanocalorimetry. *European Physical Journal E*, **2007**, 23, 43-53	1.5	94
383	Express thermo-gravimetric method for the vaporization enthalpies appraisal for very low volatile molecular and ionic compounds. *Thermochimica Acta*, **2012**, 538, 55-62	2.9	93
382	Temperature of Melting of the Mesophase of Isotactic Polypropylene. *Macromolecules*, **2009**, 42, 7275-7278	3.9	93
381	Ultra-fast isothermal calorimetry using thin film sensors. *Thermochimica Acta*, **2004**, 415, 1-7	2.9	93
380	Crystallization of poly(vinylidene fluoride) during ultra-fast cooling. *Thermochimica Acta*, **2007**, 461, 153-157	2.9	92
379	Glass transition of polymers confined to nanoporous glasses. *Colloid and Polymer Science*, **2004**, 282, 882-891	2.4	88
378	Melting of Conformationally Disordered Crystals (α′-Phase) of Poly(l-lactic acid). *Macromolecular Chemistry and Physics*, **2014**, 215, 1134-1139	2.6	86
377	Substituent Effects on the Benzene Ring. Determination of the Intramolecular Interactions of Substituents in tert-Alkyl-Substituted Catechols from Thermochemical Measurements. *Journal of Chemical & Engineering Data*, **2000**, 45, 946-952	2.8	82
376	Non-isothermal crystal nucleation of poly (l-lactic acid). *Polymer*, **2015**, 81, 151-158	3.9	81

375	Specific heat and dielectric relaxations in ultra-thin polystyrene layers. *Thermochimica Acta*, **2005**, 432, 222-228	2.9	81
374	Morphology of mesophase and crystals of polyamide 6 prepared in a fast scanning chip calorimeter. *Polymer*, **2012**, 53, 3994-4001	3.9	79
373	Density of heterogeneous and homogeneous crystal nuclei in poly (butylene terephthalate). *European Polymer Journal*, **2015**, 66, 180-189	5.2	78
372	Structure formation of polyamide 6 from the glassy state by fast scanning chip calorimetry. *Polymer* , **2011**, 52, 5156-5165	3.9	76
371	The three-phase structure and mechanical properties of poly(ethylene terephthalate). *Journal of Polymer Science, Part B: Polymer Physics*, **2004**, 42, 2092-2106	2.6	76
370	Solid-state reorganization, melting and melt-recrystallization of conformationally disordered crystals (α′-phase) of poly (l-lactic acid). *Polymer*, **2014**, 55, 4932-4941	3.9	75
369	Homogeneous nucleation and mesophase formation in glassy isotactic polypropylene. *Polymer*, **2012**, 53, 277-282	3.9	75
368	Sequence of enthalpy relaxation, homogeneous crystal nucleation and crystal growth in glassy polyamide 6. *European Polymer Journal*, **2014**, 53, 100-108	5.2	75
367	Differential AC-chip calorimeter for glass transition measurements in ultra thin polymeric films. *European Physical Journal: Special Topics*, **2007**, 141, 153-160	2.3	75
366	Crystallization of Polyethylene at Large Undercooling. *ACS Macro Letters*, **2016**, 5, 365-370	6.6	73
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347	Comparison of thermal and dielectric spectroscopy for nanocomposites based on polypropylene and Layered Double Hydroxide □Proof of interfaces. *European Polymer Journal*, **2014**, 55, 48-56	5.2	62
346	Calorimetric Glass Transition of Poly(2,6-dimethyl-1,5-phenylene oxide) Thin Films. *Macromolecules*, **2008**, 41, 7662-7666	5.5	62
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344	Ionic liquids. Combination of combustion calorimetry with high-level quantum chemical calculations for deriving vaporization enthalpies. *Journal of Physical Chemistry B*, **2008**, 112, 8095-8	3.4	61
343	Using flash DSC for determining the liquid state heat capacity of silk fibroin. *Thermochimica Acta*, **2015**, 615, 8-14	2.9	60
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340	Crystal nucleation in random l/d-lactide copolymers. *European Polymer Journal*, **2016**, 75, 474-485	5.2	58

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338	Development of continuous cooling precipitation diagrams for aluminium alloys AA7150 and AA7020. *Journal of Alloys and Compounds*, **2014**, 584, 581-589	5.7	56
337	Kinetics of nucleation and crystallization in poly(butylene succinate) nanocomposites. *Polymer*, **2014**, 55, 6725-6734	3.9	55
336	Crystal Nucleation of Polymers at High Supercooling of the Melt. *Advances in Polymer Science*, **2015**, 257-288	2.3	55
335	Observation of low heat capacities for vapor-deposited glasses of indomethacin as determined by AC nanocalorimetry. *Journal of Chemical Physics*, **2010**, 133, 014702	3.9	55
334	Broad band heat capacity spectroscopy in the glass-transition region of polystyrene. *Thermochimica Acta*, **1997**, 304-305, 251-255	2.9	55
333	Metastability of polymer crystallites formed at low temperature studied by ultra fast calorimetry: Polyamide 6 confined in sub-micrometer droplets vs. bulk PA6. *Polymer*, **2006**, 47, 2172-2178	3.9	54
332	Origin of glassy dynamics in a liquid crystal studied by broadband dielectric and specific heat spectroscopy. *Physical Review E*, **2007**, 75, 061708	2.4	52
331	Segmental and chain dynamics in nanometric layers of poly(cis-1,4-isoprene) as studied by broadband dielectric spectroscopy and temperature-modulated calorimetry. *Soft Matter*, **2013**, 9, 10592	3.6	51
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328	Does alkyl chain length really matter? Structure–property relationships in thermochemistry of ionic liquids. *Thermochimica Acta*, **2013**, 562, 84-95	2.9	50
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322	Segmental dynamics of poly(methyl phenyl siloxane) confined to nanoporous glasses. *European Physical Journal: Special Topics*, **2007**, 141, 255-259	2.3	47

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318	Separation of components of different molecular mobility by calorimetry, dynamic mechanical and dielectric spectroscopy. *Journal of Theoretical Biology*, **1997**, 49, 499-511	2.3	45
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312	Interplay between the Relaxation of the Glass of Random l/d-Lactide Copolymers and Homogeneous Crystal Nucleation: Evidence for Segregation of Chain Defects. *Journal of Physical Chemistry B*, **2016**, 120, 4522-8	3.4	44
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305	Size and rate dependence of crystal nucleation in single tin drops by fast scanning calorimetry. *Journal of Chemical Physics*, **2013**, 138, 054501	3.9	42
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299	H2 storage and CO2 capture on a nanoscale metal organic framework with high thermal stability. *Chemical Communications*, **2012**, 48, 759-61	5.8	41
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