

Georg Krausch

List of Publications by Year in descending order

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114
papers

9,257
citations

28274

55
h-index

38395

95
g-index

118
all docs

118
docs citations

118
times ranked

6663
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure Formation via Polymer Demixing in Spin-Cast Films. <i>Macromolecules</i> , 1997, 30, 4995-5003.	4.8	535
2	Surface-induced structure formation of polymer blends on patterned substrates. <i>Nature</i> , 1998, 391, 877-879.	27.8	514
3	Amphiphilic Cylindrical Core-Shell Brushes via a Grafting From-Process Using ATRP. <i>Macromolecules</i> , 2001, 34, 6883-6888.	4.8	439
4	Wetting at polymer surfaces and interfaces. <i>Progress in Polymer Science</i> , 2003, 28, 261-302.	24.7	392
5	Janus Micelles. <i>Macromolecules</i> , 2001, 34, 1069-1075.	4.8	391
6	Janus Particles at Liquid-Liquid Interfaces. <i>Langmuir</i> , 2006, 22, 5227-5229.	3.5	371
7	Amphiphilic Janus Micelles with Polystyrene and Poly(methacrylic acid) Hemispheres. <i>Journal of the American Chemical Society</i> , 2003, 125, 3260-3267.	13.7	348
8	Large-Scale Alignment of ABC Block Copolymer Microdomains via Solvent Vapor Treatment. <i>Macromolecules</i> , 2000, 33, 947-953.	4.8	219
9	Self-assembly of functional nanostructures from ABC triblock copolymers. <i>Nature Materials</i> , 2003, 2, 744-747.	27.5	216
10	Tapping Mode Atomic Force Microscopy on Polymers: Where Is the True Sample Surface?. <i>Macromolecules</i> , 2001, 34, 4159-4165.	4.8	208
11	Charge Separation at Self-Assembled Nanostructured Bulk Interface in Block Copolymers. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 3364-3368.	13.8	205
12	Surface induced self assembly in thin polymer films. <i>Materials Science and Engineering Reports</i> , 1995, 14, v-vi.	31.8	201
13	Phase behavior in thin films of cylinder-forming ABA block copolymers: Experiments. <i>Journal of Chemical Physics</i> , 2004, 120, 1105-1116.	3.0	189
14	Large Scale Domain Alignment of a Block Copolymer from Solution Using Electric Fields. <i>Macromolecules</i> , 2002, 35, 1319-1325.	4.8	142
15	Microdomain Morphology of Thin ABC Triblock Copolymer Films. <i>Macromolecules</i> , 1999, 32, 1204-1211.	4.8	135
16	Thin Film Morphologies of ABC Triblock Copolymers Prepared from Solution. <i>Macromolecules</i> , 2002, 35, 5570-5577.	4.8	133
17	Interference of spinodal waves in thin polymer films. <i>Macromolecules</i> , 1993, 26, 5566-5571.	4.8	125
18	Self-Ordering of Diblock Copolymers from Solution. <i>Journal of the American Chemical Society</i> , 1996, 118, 10892-10893.	13.7	123

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19	Surface-Grafted Hyperbranched Polymers via Self-Condensing Atom Transfer Radical Polymerization from Silicon Surfaces. <i>Macromolecules</i> , 2001, 34, 6871-6882.	4.8	123
20	Noble metal loaded block lonomers: micelle organization, adsorption of free chains and formation of thin films. <i>Advanced Materials</i> , 1995, 7, 731-735.	21.0	116
21	Thin Diblock Copolymer Films on Chemically Heterogeneous Surfaces. <i>Macromolecules</i> , 1997, 30, 6610-6614.	4.8	116
22	Real space observation of dynamic scaling in a critical polymer mixture. <i>Physical Review Letters</i> , 1993, 71, 3669-3672.	7.8	115
23	Direct imaging and mesoscale modelling of phase transitions in a nanostructured fluid. <i>Nature Materials</i> , 2004, 3, 886-891.	27.5	111
24	Single Lamella Nanoparticles of Polyethylene. <i>Nano Letters</i> , 2007, 7, 2024-2029.	9.1	111
25	Optical and Electronic Contributions in Double-Heterojunction Organic Thin-Film Solar Cells. <i>Advanced Materials</i> , 2003, 15, 2056-2060.	21.0	109
26	Electric Field Induced Alignment of Concentrated Block Copolymer Solutions. <i>Macromolecules</i> , 2003, 36, 8078-8087.	4.8	108
27	Substrate-Induced Phase Transitions in Thin Films of Cylinder-Forming Diblock Copolymer Melts. <i>Macromolecules</i> , 2006, 39, 3608-3615.	4.8	97
28	Volume Imaging of an Ultrathin SBS Triblock Copolymer Film. <i>Macromolecules</i> , 2000, 33, 5518-5523.	4.8	96
29	Phase behavior of linear polystyrene-block-poly(2-vinylpyridine)-block-poly(tert-butyl methacrylate) triblock terpolymers. <i>Polymer</i> , 2003, 44, 6815-6823.	3.8	89
30	Micellar Aggregates of Amylose-block-polystyrene Rod-Coil Block Copolymers in Water and THF. <i>Macromolecules</i> , 2005, 38, 873-879.	4.8	88
31	Structure at polymer interfaces determined by high-resolution nuclear reaction analysis. <i>Applied Physics Letters</i> , 1990, 56, 1228-1230.	3.3	86
32	Self-Assembly of a Lamellar ABC Triblock Copolymer Thin Film. <i>Macromolecules</i> , 2002, 35, 4406-4413.	4.8	85
33	Dewetting at a Polymer-Polymer Interface: Film Thickness Dependence. <i>Langmuir</i> , 2001, 17, 6269-6274.	3.5	81
34	Self-Diffusion and Cooperative Diffusion in Semidilute Polymer Solutions As Measured by Fluorescence Correlation Spectroscopy. <i>Macromolecules</i> , 2009, 42, 9537-9547.	4.8	80
35	Self-assembly of a homopolymer mixture via phase separation. <i>Applied Physics Letters</i> , 1994, 64, 2655-2657.	3.3	77
36	Scanning near-field optical lithography. <i>Thin Solid Films</i> , 1995, 264, 264-267.	1.8	77

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37	Compatibilizing A/B blends with AB diblock copolymers: Effect of copolymer molecular weight. <i>Journal of Chemical Physics</i> , 1995, 102, 8149-8157.	3.0	76
38	Reversible tuning of a block-copolymer nanostructure via electric fields. <i>Nature Materials</i> , 2008, 7, 142-145.	27.5	75
39	Isolated indium atoms on copper surfaces: A perturbed $\hat{I}^3\text{-}\hat{I}^3$ angular correlation study. <i>Surface Science</i> , 1989, 216, 270-302.	1.9	74
40	Ellipsometric determination of Flory-Huggins interaction parameters in solution. <i>Polymer</i> , 2004, 45, 7935-7942.	3.8	73
41	Near field microscopy and lithography with uncoated fiber tips: a comparison. <i>Optics Communications</i> , 1995, 119, 283-288.	2.1	71
42	Large scale alignment of a lamellar block copolymer thin film via electric fields: a time-resolved SFM study. <i>Soft Matter</i> , 2006, 2, 1089-1094.	2.7	71
43	Transient Wetting and 2D Spinodal Decomposition in a Binary Polymer Blend. <i>Europhysics Letters</i> , 1995, 29, 353-358.	2.0	70
44	Switching Layer Stability in a Polymer Bilayer by Thickness Variation. <i>Physical Review Letters</i> , 2007, 98, 267802.	7.8	70
45	Influence of Initial Order on the Microscopic Mechanism of Electric Field Induced Alignment of Block Copolymer Microdomains. <i>Langmuir</i> , 2005, 21, 11974-11980.	3.5	69
46	Nanoscale Surface Patterns from Functional ABC Triblock Copolymers. <i>Macromolecules</i> , 2001, 34, 7477-7488.	4.8	64
47	Comparative Thermodynamic Analysis of DNA-Protein Interactions Using Surface Plasmon Resonance and Fluorescence Correlation Spectroscopy. <i>Biochemistry</i> , 2003, 42, 10288-10294.	2.5	63
48	Interfacial structure in polymer mixtures below the critical point. <i>Physical Review Letters</i> , 1989, 63, 616-619.	7.8	62
49	Synthesis and Properties of ABA and ABC Triblock Copolymers with Glassy (A), Elastomeric (B), and Crystalline (C) Blocks. <i>Macromolecules</i> , 2001, 34, 8720-8729.	4.8	62
50	Crystallization-induced switching of the morphology of poly(ethylene oxide)-block-polybutadiene micelles. <i>Soft Matter</i> , 2009, 5, 208-213.	2.7	62
51	Transfer of a chemical substrate pattern into an island-forming diblock copolymer film. <i>Journal of Chemical Physics</i> , 1999, 111, 11101-11110.	3.0	61
52	Wetting in a phase separating polymer blend film: Quench depth dependence. <i>Physical Review E</i> , 2000, 62, 940-950.	2.1	60
53	Fluorescence Correlation Spectroscopy of Single Dye-Labeled Polymers in Organic Solvents. <i>Macromolecules</i> , 2004, 37, 1917-1920.	4.8	60
54	Investigation of Micelle Formation by Fluorescence Correlation Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2005, 109, 13397-13401.	2.6	58

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55	Controlled solvent vapour annealing for polymer electronics. <i>Soft Matter</i> , 2009, 5, 4206.	2.7	58
56	Nanoscaling of Microdomain Spacings in Thin Films of Cylinder-Forming Block Copolymers. <i>Nano Letters</i> , 2007, 7, 843-846.	9.1	56
57	Time Evolution of Surface Relief Structures in Thin Block Copolymer Films. <i>Macromolecules</i> , 2007, 40, 6930-6939.	4.8	50
58	Combinatorial study of the long-term stability of organic thin-film solar cells. <i>Applied Physics Letters</i> , 2002, 81, 2106-2108.	3.3	49
59	Nanopattern Evolution in Block Copolymer Films: Experiment, Simulations and Challenges. <i>Advances in Polymer Science</i> , 2010, , 33-73.	0.8	49
60	Microscopic Observation of Step and Terrace Diffusion of Indium Atoms on Cu(111) Surfaces. <i>Europhysics Letters</i> , 1988, 7, 151-157.	2.0	48
61	Two-dimensional micelle formation of polystyrene-poly(vinylpyridine) diblock copolymers on mica surfaces. <i>Applied Physics A: Materials Science and Processing</i> , 1995, 61, 519-524.	2.3	47
62	Dewetting at the interface between two immiscible polymers. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 7741-7752.	1.8	47
63	Defect Evolution in Block Copolymer Thin Films via Temporal Phase Transitions. <i>Langmuir</i> , 2006, 22, 8089-8095.	3.5	47
64	Towards Nanoporous Membranes based on ABC Triblock Terpolymers. <i>Small</i> , 2007, 3, 1056-1063.	10.0	47
65	Structure Formation of Polystyrene-block-poly(β -benzyl l-glutamate) in Thin Films. <i>Macromolecules</i> , 2005, 38, 7532-7535.	4.8	46
66	Surface Reconstructions of Lamellar ABC Triblock Copolymer Mesostructures. <i>Macromolecules</i> , 2003, 36, 3261-3271.	4.8	43
67	Surface-Induced Asymmetries during Spinodal Decomposition in Off-Critical Polymer Mixtures. <i>Macromolecules</i> , 1994, 27, 6768-6776.	4.8	39
68	Surface-Directed Spinodal Decomposition in the Blend of Polystyrene and Tetramethyl-Bisphenol-A Polycarbonate. <i>Macromolecules</i> , 1994, 27, 5927-5929.	4.8	37
69	One-Dimensional Swelling of a pH-Dependent Nanostructure Based on ABC Triblock Terpolymers. <i>Macromolecules</i> , 2005, 38, 2376-2382.	4.8	37
70	Thin Film Phase Separation on a Nanoscopically Patterned Substrate. <i>Langmuir</i> , 2000, 16, 3474-3477.	3.5	36
71	Self-Assembly of a Lamellar ABC Triblock Terpolymer Thin Film. Effect of Substrates. <i>Macromolecules</i> , 2003, 36, 2852-2861.	4.8	36
72	Decay Kinetics of Nanoscale Corrugation Gratings on Polymer Surface: Evidence for Polymer Flow below the Glass Temperature. <i>Macromolecules</i> , 2004, 37, 8647-8652.	4.8	35

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73	Dynamics of mixing between partially miscible polymers. <i>Physical Review Letters</i> , 1990, 64, 1119-1121.	7.8	34
74	Direct observation of single molecule mobility in semidilute polymer solutions. <i>Physical Review E</i> , 2007, 75, 061804.	2.1	33
75	Spinodal decomposition in thin polymer films. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1994, 98, 446-448.	0.9	32
76	Binding and mobility of isolated indium atoms on Si(111)7 $\sqrt{3}$ × $\sqrt{3}$. <i>Physical Review Letters</i> , 1992, 68, 377-380.	7.8	30
77	Step-correlated diffusion of in atoms on Ag(100) and Ag(111) surfaces. <i>Surface Science</i> , 1990, 225, 331-340.	1.9	28
78	Monolayer-resolved detection of magnetic hyperfine fields at Cu/Ni(111) interfaces. <i>Physical Review Letters</i> , 1991, 66, 3199-3202.	7.8	28
79	Magnetic hyperfine field atIn111probes in the topmost atomic layer of Ni(111) surfaces. <i>Physical Review Letters</i> , 1990, 64, 2202-2205.	7.8	27
80	Order-Induced Period Doubling during Surface-Directed Spinodal Decomposition. <i>Europhysics Letters</i> , 1994, 28, 323-328.	2.0	27
81	Antiferromagnetic Ordering in a Helical Triblock Copolymer Mesostructure. <i>Macromolecules</i> , 2001, 34, 7917-7919.	4.8	27
82	Microscopic observation of atomic disorder near the roughening transition at vicinal copper surfaces. <i>Physical Review Letters</i> , 1993, 70, 2455-2458.	7.8	24
83	Combinatorial preparation and characterization of thin-film multilayer electro-optical devices. <i>Review of Scientific Instruments</i> , 2007, 78, 072216.	1.3	21
84	Interface Formation in a Partially Miscible Polymer Blend. <i>Europhysics Letters</i> , 1988, 5, 657-662.	2.0	19
85	Surface andinterface studies with perturbed angular correlations. <i>Hyperfine Interactions</i> , 1993, 78, 261-280.	0.5	19
86	Length-scale dependence of surface relief gratings in azobenzene side-chain polymers. <i>Synthetic Metals</i> , 2001, 124, 155-157.	3.9	19
87	Thin polymer films on chemically patterned, corrugated substrates. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S389-S402.	1.8	19
88	The electric field gradient for single indium atoms on low-index silver surfaces. <i>Journal of Physics Condensed Matter</i> , 1989, 1, 7407-7418.	1.8	18
89	Hyperfine-interaction studies of surfaces. <i>Hyperfine Interactions</i> , 1990, 60, 975-989.	0.5	17
90	Surface modification in the optical near field. <i>Microelectronic Engineering</i> , 1996, 32, 219-228.	2.4	15

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91	Compound formation in Ni/In thin film systems. <i>Hyperfine Interactions</i> , 1990, 60, 1003-1006.	0.5	14
92	Indium adsorption sites at Pd(100) surfaces studied by PAC spectroscopy. <i>Journal of Physics Condensed Matter</i> , 1993, 5, 3837-3842.	1.8	14
93	Indium adsorption on silicon surfaces: a PAC study. <i>Surface Science</i> , 1993, 285, 81-92.	1.9	13
94	Formation of an ultrathin amorphous layer at In/Pd interfaces observed by local and nonlocal techniques. <i>Physical Review B</i> , 1993, 47, 10048-10051.	3.2	13
95	Microscopic Observation of a Superstructure Phase Transition: In/Si(100). <i>Europhysics Letters</i> , 1992, 19, 611-615.	2.0	12
96	Interface compound formation and dependence on In layer thickness in Ni/In thin film systems. <i>Applied Physics Letters</i> , 1991, 58, 2904-2906.	3.3	11
97	Ligand-Directed Immobilization of Proteins through an Esterase 2 Fusion Tag Studied by Atomic Force Microscopy. <i>ChemBioChem</i> , 2008, 9, 124-130.	2.6	11
98	Surface investigations with PAC. <i>Hyperfine Interactions</i> , 1989, 49, 395-406.	0.5	10
99	Magnetic hyperfine fields at uncovered ultrathin Ni films on Cu(100) substrates and at single-crystal Ni surfaces. <i>Journal of Magnetism and Magnetic Materials</i> , 1991, 93, 341-344.	2.3	10
100	Morphological Changes in Composite-Based Organic Light-Emitting Diodes. <i>Macromolecules</i> , 2003, 36, 4932-4936.	4.8	10
101	Investigations of Ag(100)-In and Ag(111)-In interfaces with local probes. <i>Thin Solid Films</i> , 1990, 190, 153-162.	1.8	8
102	Site-Specific Binding of the 9.5 Kilodalton DNA-Binding Protein ORF80 Visualized by Atomic Force Microscopy. <i>Biomacromolecules</i> , 2005, 6, 1252-1257.	5.4	6
103	Nuclear reaction analysis: A study on the interface formation in polymer mixtures below the critical point. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1991, 45, 283-288.	0.6	5
104	Probing soft matter by AFM. <i>Polymer</i> , 2016, 102, 315-316.	3.8	5
105	Surface structure induced by Ar ⁺ -bombardment of decagonal AlNiCo. <i>Journal of Alloys and Compounds</i> , 2002, 342, 437-440.	5.5	4
106	Compound formation at Pd(100)/In interfaces. <i>Hyperfine Interactions</i> , 1993, 78, 309-314.	0.5	3
107	Nuclear Reaction Analysis Studies on the Interface Formation in Polymer Mixtures. <i>Materials Research Society Symposia Proceedings</i> , 1989, 177, 367.	0.1	2
108	Non-reactive metal/semiconductor interfaces: a combined AES, AFM and PAC study. <i>Hyperfine Interactions</i> , 1993, 78, 295-301.	0.5	2

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109	PAC investigations of Au(110) $1\bar{1}\bar{1}/2$ -surfaces. <i>Hyperfine Interactions</i> , 1993, 78, 303-308.	0.5	2
110	Toward nanoporous composite membranes with tailored block copolymers as selective layer. <i>Desalination</i> , 2006, 200, 29-31.	8.2	2
111	Diffusion of isolated In atoms on Ag and Cu surfaces. <i>Vacuum</i> , 1990, 41, 1643-1645.	3.5	1
112	Monolayer-resolved magnetic and electric hyperfine fields at Ni(111) surfaces. <i>Vacuum</i> , 1990, 41, 521-524.	3.5	1
113	Interface compound formation in Ni/In thin film couples. <i>Vacuum</i> , 1990, 41, 1325-1326.	3.5	0
114	Tribute to Axel Moller on the occasion of his 65th birthday. <i>Polymer</i> , 2012, 53, 1803-1804.	3.8	0