Mario Beiner

List of Publications by Year
in descending order

99 papers	4,028 citations	101543 36 h-index	123424 61 g-index
103 all docs	103 docs citations	103 times ranked	3339 citing authors

#	Article	IF	Citations
1	Common Origin of Filler Network Related Contributions to Reinforcement and Dissipation in Rubber Composites. Polymers, 2021, 13, 2534.	4.5	3
2	Tuning layered superstructures in precision polymers. Scientific Reports, 2020, 10, 12119.	3.3	2
3	On the Difference Between the Tensile Stiffness of Bulk and Slice Samples of Microstructured Materials. Applied Composite Materials, 2020, 27, 969-988.	2.5	7
4	Influence of structure gradients in injection moldings of isotactic polypropylene on their mechanical properties. Polymer, 2020, 200, 122556.	3.8	18
5	Diffusion coefficients of polyurethane coatings by swelling experiments using dielectric spectroscopy. Journal of Applied Polymer Science, 2020, 137, 49174.	2.6	3
6	Silanization of Silica Nanoparticles and Their Processing as Nanostructured Microâ€Raspberry Powdersâ€"A Route to Control the Mechanical Properties of Isoprene Rubber Composites. Polymer Composites, 2019, 40, E732.	4.6	6
7	Structure and Dynamics in a Polymorphic Nanophase-Separated Stiff Comblike Polymer. Macromolecules, 2019, 52, 6943-6952.	4.8	5
8	Polymorphic states and phase transitions in a comb-like polymer having a rigid polyester backbone and flexible side chains. Thermochimica Acta, 2019, 677, 162-168.	2.7	6
9	3D Printing of Supramolecular Polymers: Impact of Nanoparticles and Phase Separation on Printability. Macromolecular Rapid Communications, 2019, 40, e1900467.	3.9	33
10	On the effective elastic properties of isotactic polypropylene. Polymer, 2019, 160, 291-302.	3.8	12
11	Structure formation in nanophase-separated systems with lamellar morphology: Comb-like vs. linear precision polymers. European Polymer Journal, 2018, 103, 116-123.	5.4	12
12	Diblock-Copolymer-Based Composites for Tire-Tread Applications with Improved Filler Network Topology. ACS Applied Nano Materials, 2018, 1, 1003-1008.	5.0	6
13	Relaxation behavior of polyurethane networks with different composition and crosslinking density. Polymer, 2017, 111, 83-90.	3.8	29
14	Quantification of different contributions to dissipation in elastomer nanoparticle composites. Polymer, 2017, 111, 48-52.	3.8	24
15	Interrelations Between Side Chain and Main Chain Packing in Different Crystal Modifications of Alkoxylated Polyesters. Journal of Physical Chemistry B, 2017, 121, 4583-4591.	2.6	16
16	Foundation of the Outstanding Toughness in Biomimetic and Natural Spider Silk. Biomacromolecules, 2017, 18, 3954-3962.	5.4	38
17	Synthesis of supramolecular precision polymers: Crystallization under conformational constraints. Journal of Polymer Science Part A, 2017, 55, 3736-3748.	2.3	13
18	Morphology orientation of comb-like polymers with rigid backbones under the influence of shear fields. AIMS Materials Science, 2017, 4, 970-981.	1.4	4

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19	High Temperature Thermoplastic Elastomers Synthesized by Living Anionic Polymerization in Hydrocarbon Solvent at Room Temperature. Macromolecules, 2016, 49, 2646-2655.	4.8	39
20	Self-assembled structure and relaxation dynamics of diblock copolymers made of polybutadiene and styrene/butadiene rubber. RSC Advances, 2016, 6, 50460-50470.	3.6	4
21	Pharmaceutical nanocrystals confined in porous host systems â€“ interfacial effects and amorphous interphases. Chemical Communications, 2016, 52, 4466-4469.	4.1	15
22	INTERRELATIONS BETWEEN MORPHOLOGY AND SOFTENING BEHAVIOR IN SELF-ASSEMBLED POLY (BUTADIENE-BLOCK-(STYRENE-STAT-BUTADIENE)) COPOLYMERS. Rubber Chemistry and Technology, 2016, 89, 392-405.	1.2	2
23	â€œClickâ€â€•Triggered Selfâ€•Healing Graphene Nanocomposites. Macromolecular Rapid Communications, 2016, 37, 1715-1722.	3.9	23
24	About different packing states of alkyl groups in comb-like polymers with rigid backbones. Soft Matter, 2016, 12, 8093-8097.	2.7	20
25	Selfâ€•Healing Materials from Vâ€•and Hâ€•Shaped Supramolecular Architectures. Angewandte Chemie - International Edition, 2015, 54, 10188-10192.	13.8	110
26	Confined relaxation dynamics in long range ordered polyesters with comb-like architecture. Polymer, 2014, 55, 6844-6852.	3.8	11
27	Effect of Nonâ€•<scp>R</scp>ubber Components of <scp>NR</scp> on the Carbon Nanotube (<scp>CNT</scp>) Localization in <scp>SBR</scp>/<scp>NR</scp> Blends. Macromolecular Materials and Engineering, 2014, 299, 569-582.	3.6	23
28	Morphology of Porous Hosts Directs Preferred Polymorph Formation and Influences Kinetics of Solid/Solid Transitions of Confined Pharmaceuticals. Crystal Growth and Design, 2014, 14, 78-86.	3.0	27
29	The role of linked phospholipids in the rubber-filler interaction in carbon nanotube (CNT) filled natural rubber (NR) composites. Polymer, 2014, 55, 4738-4747.	3.8	60
30	Detection of Surface-Immobilized Components and Their Role in Viscoelastic Reinforcement of Rubberâ€“Silica Nanocomposites. ACS Macro Letters, 2014, 3, 481-485.	4.8	139
31	Influence of shear processing on morphology orientation and mechanical properties of styrene butadiene triblock copolymers. Polymer, 2014, 55, 3782-3791.	3.8	12
32	Blends of ethyleneâ€“octene copolymers with different chain architectures â€“ Morphology, thermal and mechanical behavior. Polymer, 2013, 54, 5207-5213.	3.8	29
33	Mechanical Properties and Cross-Link Density of Styreneâ€“Butadiene Model Composites Containing Fillers with Bimodal Particle Size Distribution. Macromolecules, 2012, 45, 6504-6515.	4.8	118
34	Hierarchical Nanostructures in Semifluorinated Norbornene Block Copolymers. Macromolecules, 2011, 44, 958-965.	4.8	12
35	Size-dependent growth of polymorphs in nanopores and Ostwald's step rule of stages. Physical Chemistry Chemical Physics, 2011, 13, 21367.	2.8	64
36	Poly(Îµâ€•caprolactone)â€“poly(isobutylene): A crystallizing, hydrogenâ€•bonded pseudoâ€•block copolymer. Journal of Polymer Science Part A, 2011, 49, 3404-3416.	2.3	27

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37	Phase Transitions in Polymers Containing Long Self-Assembled CH₂ Sequences in the Side Chain: A Positron Lifetime Study. Materials Science Forum, 2010, 666, 71-74.	0.3	1
38	Side chain crystallization and non-equilibrium phenomena in nanophase separated poly(3-alkyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	0.4	1
39	Confined Dynamics and Crystallization in Self-Assembled Alkyl Nanodomains. Journal of Physical Chemistry B, 2010, 114, 15459-15465.	2.6	52
40	Long-term behavior and side chain crystallization of poly(3-alkyl thiophenes). Soft Matter, 2010, 6, 3506.	2.7	33
41	Temperature Dependence of the Primary Relaxation in 1-Hexyl-3-methylimidazolium bis{(trifluoromethyl)sulfonyl}imide. Journal of Physical Chemistry B, 2009, 113, 8469-8474.	2.6	76
42	Side-Chain Dynamics and Crystallization in a Series of Regiorandom Poly(3-alkylthiophenes). Macromolecules, 2009, 42, 716-724.	4.8	84
43	Nanoconfinement as a tool to study early stages of polymer crystallization. Journal of Polymer Science, Part B: Polymer Physics, 2008, 46, 1556-1561.	2.1	40
44	Stabilization of the amorphous state of pharmaceuticals in nanopores. Journal of Materials Chemistry, 2008, 18, 2537.	6.7	125
45	From small molecules to polymers: Relaxation behavior of n-butyl methacrylate based systems. Journal of Non-Crystalline Solids, 2007, 353, 3976-3983.	3.1	11
46	Manipulating the Crystalline State of Pharmaceuticals by Nanoconfinement. Nano Letters, 2007, 7, 1381-1385.	9.1	156
47	Proteins: is the folding process dynamically encoded?. Soft Matter, 2007, 3, 391.	2.7	6
48	Crystallization of Frustrated Alkyl Groups in Polymeric Systems Containing Octadecylmethacrylate. , 2007, , 201-228.		11
49	Crystallization Behavior of Acetaminophen in Nanopores. The Open Physical Chemistry Journal, 2007, 1, 18-24.	0.4	31
50	On the crystallization behavior of frustrated alkyl groups in poly(n-octadecyl methacrylate). Journal of Non-Crystalline Solids, 2006, 352, 5013-5020.	3.1	44
51	Effects of quenching and physical aging on the relaxation behavior of nanophase-separated side chain polymers. Journal of Physics: Conference Series, 2006, 40, 67-75.	0.4	6
52	Relaxation in poly(alkyl methacrylate)s: Change of intermolecular coupling with molecular structure, tacticity, molecular weight, copolymerization, crosslinking, and nanoconfinement. Polymer, 2006, 47, 7222-7230.	3.8	62
53	Confined Dynamics in Nanophase-Separated Side Chain Polymers. AIP Conference Proceedings, 2006, , .	0.4	2
54	Relaxation Behavior and Crystallization Kinetics of Amorphous Acetaminophen. Letters in Drug Design and Discovery, 2006, 3, 723-730.	0.7	17

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55	Side chain crystallization in microphase-separated poly(styrene-block-octadecylmethacrylate) copolymers. Thermochimica Acta, 2005, 432, 254-261.	2.7	17
56	Interrelation between Primary and Secondary Relaxations in Polymerizing Systems Based on Epoxy Resins. Macromolecules, 2005, 38, 7033-7042.	4.8	64
57	Nanophase separation in side chain polymers: new evidence from structure and dynamics. New Journal of Physics, 2004, 6, 10-10.	2.9	75
58	Secondary Relaxation of the Johariâ^'Goldstein Kind in Alkyl Nanodomains. Macromolecules, 2004, 37, 8123-8127.	4.8	34
59	Interrelation between side chain crystallization and dynamic glass transitions in higher poly(n-alkyl) Tj ETQq1 1 0.784314 rgBT /Overlock	2.7	68
60	Nanophase separation and hindered glass transition in side-chain polymers. Nature Materials, 2003, 2, 595-599.	27.5	253
61	Identification of Slow Dynamic Processes in Poly(n-hexyl Methacrylate) by Solid-State 1D-MAS Exchange NMR. Macromolecules, 2003, 36, 3992-4003.	4.8	37
62	Strong isotopic labeling effects on the pressure dependent thermodynamics of polydimethylsiloxane/polyethylmethylsiloxane blends. Journal of Chemical Physics, 2002, 116, 1185-1192.	3.0	10
63	Relation between structural relaxation time and configurational entropy: A test of the Adam-Gibbs model on epoxy resins. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 339-346.	0.6	10
64	Two crossover regions in the dynamics of glass forming epoxy resins. Journal of Chemical Physics, 2002, 117, 2435-2448.	3.0	108
65	Structural and dynamic nanoheterogeneities in higher poly(alkyl methacrylate)s. Journal of Non-Crystalline Solids, 2002, 307-310, 658-666.	3.1	36
66	Investigation of slow dynamic processes in natural abundance polymeric systems by novel 1D-MAS exchange NMR methods. Macromolecular Symposia, 2002, 184, 175-182.	0.7	5
67	Temperature modulated DSC for the multiple glass transition in poly(n-alkyl methacrylates). Thermochimica Acta, 2002, 391, 219-225.	2.7	48
68	Crossover region of dynamic glass transition: general trends and individual aspects. Journal of Non-Crystalline Solids, 2001, 279, 126-135.	3.1	90
69	Low-Temperature Heat Capacity, Glass-Transition Cooperativity, and Glass-Structure Vault Breakdown in a Series of Poly(n-alkyl methacrylate)s. Macromolecules, 2001, 34, 5927-5935.	4.8	17
70	Glass transition cooperativity from heat capacity spectroscopyâ€"temperature dependence and experimental uncertainties. Thermochimica Acta, 2001, 377, 113-124.	2.7	40
71	Relaxation in Poly(alkyl methacrylate)s: Crossover Region and Nanophase Separation. Macromolecular Rapid Communications, 2001, 22, 869-895.	3.9	120
72	Characteristic length of the glass transition. Journal of Physics Condensed Matter, 2001, 13, L451-L462.	1.8	37

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73	Temperature dependence of glass-transition cooperativity from heat-capacity spectroscopy: Two post-Adam-Gibbs variants. Physical Review B, 2000, 61, 15092-15101.	3.2	66
74	The glass-softening temperature range and non-Arrhenius dynamics: the case of vitrified water. Journal of Non-Crystalline Solids, 2000, 278, 58-68.	3.1	11
75	Confirmation of a calorimetric peculiarity in the crossover region of glass transition in poly(n-hexyl) Tj ETQq1 1 0.784314 rgBT /Overlock	3.6	22
76	Multiple Glass Transition and Nanophase Separation in Poly(n-alkyl methacrylate) Homopolymers. Macromolecules, 1999, 32, 6278-6282.	4.8	120
77	Effect of Molecular Weight on Î±Î² Splitting Region of Dynamic Glass Transition in Poly(ethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	4.8	15
78	Dielectric Spectroscopy in the Î±Î² Splitting Region of Glass Transition in Poly(ethyl methacrylate) and Poly(n-butyl methacrylate):Â Different Evaluation Methods and Experimental Conditions. Macromolecules, 1998, 31, 8966-8972.	4.8	103
79	Crossover Region of Dynamic Glass Transition in Poly(n-hexyl methacrylate) by Heat Capacity Spectroscopy. Macromolecules, 1998, 31, 8973-8980.	4.8	34
80	Two calorimetrically distinct parts of the dynamic glass transition. Europhysics Letters, 1998, 44, 321-327.	2.0	41
81	MÃ¶ssbauer and dielectric spectroscopy of the dynamic glass transition of a block copolymer. Journal of Physics Condensed Matter, 1998, 10, 961-970.	1.8	2
82	Pressure-Induced Compatibility in a Model Polymer Blend. Physical Review Letters, 1998, 81, 594-597.	7.8	48
83	Dynamic Glass Transition above the Cooperativity Onset in Poly(n-octyl methacrylate). Macromolecules, 1997, 30, 8420-8424.	4.8	17
84	Stability of the T ?FT < T ?? relation between Vogel temperatures of flow and glass transition against determination variants. Rheologica Acta, 1997, 36, 187-196.	2.4	2
85	Comparison of DSC heating rate and HCS frequency at the glass transition. Thermochimica Acta, 1997, 304-305, 239-249.	2.7	87
86	The influence of copolymerization and plasticization on the Î±Î² splitting behaviour of the glass transition in poly(n-alkylmethacrylate)s. Polymer, 1997, 38, 4011-4018.	3.8	11
87	Temperature dependence of a glass transition cooperativity. Acta Polymerica, 1997, 48, 369-378.	0.9	46
88	Stability of the T â^žFT <T â^žÎ± relation between Vogel temperatures of flow and glass transition against determination variants. Rheologica Acta, 1997, 36, 187-196.	2.4	2
89	Fine Structure of the Main Transition in Amorphous Polymers:â€‰ Entanglement Spacing and Characteristic Length of the Glass Transition. Discussion of Examples. Macromolecules, 1996, 29, 6589-6600.	4.8	111
90	Heat Capacity Spectroscopy Compared to Other Linear Response Methods at the Dynamic Glass Transition in Poly(vinyl acetate). Macromolecules, 1996, 29, 5183-5189.	4.8	58

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91	Influence of Cooperative Î± Dynamics on Local Î² Relaxation during the Development of the Dynamic Glass Transition in Poly(n-alkyl methacrylate)s. Macromolecules, 1996, 29, 247-253.	4.8	282
92	Linearity of heat capacity step near the onset of Î± glass transition in poly(n-alkylmethacrylate)s. Acta Polymerica, 1996, 47, 525-529.	0.9	40
93	Struik law for enthalpy retardation at the glass transition in poly(n-alkylmethacrylates) measured by DSC aging experiments. Colloid and Polymer Science, 1995, 273, 1151-1155.	2.1	3
94	Confirmation of Plazek's Slight Shoulder in the Shear Retardation Spectrum of Poly(vinyl acetate) at the Dynamic Glass Transition. Macromolecules, 1995, 28, 5394-5395.	4.8	10
95	Molecular cooperativity against locality at glass transition onset in poly(n butyl methacrylate). Journal of Physics Condensed Matter, 1994, 6, 6941-6945.	1.8	37
96	Ageing effects on dynamic shear moduli at the onset of the dynamic glass transition in two poly(alkyl) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.8	14
97	Dynamic shear modulus in the splitting region of poly(alkyl methacrylates). Colloid and Polymer Science, 1994, 272, 1439-1446.	2.1	21
98	Thermal response in the splitting region of the dynamic glass transition. Journal of Non-Crystalline Solids, 1994, 172-174, 191-196.	3.1	12
99	Onset of the dynamic glass transition in poly(n butyl methacrylate). Physica A: Statistical Mechanics and Its Applications, 1993, 201, 72-78.	2.6	8