

Bruce A Garetz

List of Publications by Year in descending order

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56
papers

2,377
citations

331670

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48
g-index

57
all docs

57
docs citations

57
times ranked

2086
citing authors

#	ARTICLE	IF	CITATIONS
1	Majority Rules in the Copolymerization of Mirror Image Isomers. <i>Journal of the American Chemical Society</i> , 1995, 117, 4181-4182.	13.7	357
2	Polarization Switching of Crystal Structure in the Nonphotochemical Light-Induced Nucleation of Supersaturated Aqueous Glycine Solutions. <i>Physical Review Letters</i> , 2002, 89, 175501.	7.8	260
3	Nonphotochemical, Laser-Induced Nucleation of Supersaturated Aqueous Glycine Produces Unexpected β -Polymorph. <i>Crystal Growth and Design</i> , 2001, 1, 5-8.	3.0	202
4	Chiral Conflict. The Effect of Temperature on the Helical Sense of a Polymer Controlled by the Competition between Structurally Different Enantiomers: From Dilute Solution to the Lyotropic Liquid Crystal State. <i>Journal of the American Chemical Society</i> , 2003, 125, 7313-7323.	13.7	148
5	Effect of Grain Size on the Ionic Conductivity of a Block Copolymer Electrolyte. <i>Macromolecules</i> , 2014, 47, 5424-5431.	4.8	119
6	Variable frequency shifting of circularly polarized laser radiation via a rotating half-wave retardation plate. <i>Optics Communications</i> , 1979, 31, 1-3.	2.1	116
7	Supersaturation and Polarization Dependence of Polymorph Control in the Nonphotochemical Laser-Induced Nucleation (NPLIN) of Aqueous Glycine Solutions. <i>Crystal Growth and Design</i> , 2006, 6, 684-689.	3.0	114
8	Graft Copolymers with Regularly Spaced, Tetrafunctional Branch Points: Morphology and Grain Structure. <i>Macromolecules</i> , 2000, 33, 2039-2048.	4.8	109
9	Strong dc Electric Field Applied to Supersaturated Aqueous Glycine Solution Induces Nucleation of the β -Polymorph. <i>Physical Review Letters</i> , 2005, 94, 145503.	7.8	103
10	Monte Carlo simulation and experiments of pulsed radiative transfer. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2002, 73, 159-168.	2.3	95
11	Intensity, Wavelength, and Polarization Dependence of Nonphotochemical Laser-Induced Nucleation in Supersaturated Aqueous Urea Solutions. <i>Crystal Growth and Design</i> , 2005, 5, 1565-1567.	3.0	57
12	Phase Behavior of Mixtures of Block Copolymers and a Lithium Salt. <i>Journal of Physical Chemistry B</i> , 2018, 122, 8065-8074.	2.6	57
13	Nonphotochemical Laser Induced Nucleation of Hen Egg White Lysozyme Crystals. <i>Crystal Growth and Design</i> , 2008, 8, 4255-4261.	3.0	56
14	Polarization Switching of Crystal Structure in the Nonphotochemical Laser-Induced Nucleation of Supersaturated Aqueous α -Histidine. <i>Crystal Growth and Design</i> , 2008, 8, 1720-1722.	3.0	51
15	Phase Behavior of a Block Copolymer/Salt Mixture through the Order-to-Disorder Transition. <i>Macromolecules</i> , 2014, 47, 2666-2673.	4.8	50
16	Periodic plasmonic enhancing epitopes on a whispering gallery mode biosensor. <i>Optics Express</i> , 2012, 20, 26147.	3.4	39
17	The configurational stereochemistry of atactic vinyl homopolymers. <i>Tetrahedron Letters</i> , 1984, 25, 2831-2834.	1.4	37
18	Noninvasive detection of inhomogeneities in turbid media with time-resolved log-slope analysis. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2004, 84, 493-500.	2.3	35

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19	Analysis of the D1 $\pi^* \rightarrow \pi$ transition in CO observed by two-photon excitation. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1989, 45, 31-40.	0.1	29
20	Polarization spectroscopy as a probe of Raman optical activity. <i>Journal of Chemical Physics</i> , 1982, 76, 2227-2237.	3.0	23
21	Relationship between Structural and Stress Relaxation in a Block-Copolymer Melt. <i>Physical Review Letters</i> , 2006, 96, 257801.	7.8	23
22	Viscoelastic Properties of Aligned Block Copolymer Lamellae. <i>Macromolecules</i> , 2001, 34, 8701-8709.	4.8	21
23	Structure and Phase Behavior of Block Copolymer Melts near the Sphere-Cylinder Boundary. <i>Macromolecules</i> , 2005, 38, 7090-7097.	4.8	20
24	Analysis of the two-photon $D_1 \pi^* \rightarrow \pi$ transition in CO: Perturbations in the (10 \leftarrow 0) band. <i>Journal of Chemical Physics</i> , 1991, 94, 843-853.	3.0	18
25	Miscible Polyether/Poly(ether-acetal) Electrolyte Blends. <i>Macromolecules</i> , 2020, 53, 5728-5739.	4.8	18
26	Nonphotochemical Laser-Induced Nucleation in Levitated Supersaturated Aqueous Potassium Chloride Microdroplets. <i>Crystal Growth and Design</i> , 2014, 14, 2685-2688.	3.0	17
27	Characterization of Micron-Sized Periodic Structures in Multicomponent Polymer Blends by Ultra-Small-Angle Neutron Scattering and Optical Microscopy. <i>Macromolecules</i> , 2008, 41, 471-477.	4.8	16
28	Birefringence and Depolarized Light Scattering from Ordered Block Copolymers with Anisotropic Distributions of Grain Orientations Produced by Shear Flow. <i>Macromolecules</i> , 2004, 37, 4185-4195.	4.8	13
29	Dynamic Light Scattering Study of a Laser-Induced Phase-Separated Droplet of Aqueous Glycine. <i>Journal of Physical Chemistry B</i> , 2021, 125, 7828-7839.	2.6	13
30	The effect of molecular architecture on the grain growth kinetics of AnBn star block copolymers. <i>Faraday Discussions</i> , 2005, 128, 103.	3.2	12
31	Evolution of Grain Structure during Disorder-to-Order Transitions in a Block Copolymer/Salt Mixture Studied by Depolarized Light Scattering. <i>Macromolecules</i> , 2014, 47, 5784-5792.	4.8	12
32	Microfluidic Laser-Induced Nucleation of Supersaturated Aqueous Glycine Solutions. <i>Crystal Growth and Design</i> , 2020, 20, 6502-6509.	3.0	12
33	Optical model for potential surface crossing. <i>Chemical Physics</i> , 1975, 9, 385-391.	1.9	11
34	Polymorphism in Containerless Crystallization. <i>Crystal Growth and Design</i> , 2011, 11, 4572-4580.	3.0	11
35	Dendritic Growth of Glycine from Nonphotochemical Laser-Induced Nucleation of Supersaturated Aqueous Solutions in Agarose Gels. <i>Crystal Growth and Design</i> , 2018, 18, 5927-5933.	3.0	11
36	Characterization of a Block Copolymer with a Wide Distribution of Grain Sizes. <i>Macromolecules</i> , 2016, 49, 8198-8208.	4.8	10

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37	Microfluidic Laser-Induced Nucleation of Supersaturated Aqueous KCl Solutions. <i>Crystal Growth and Design</i> , 2019, 19, 3491-3497.	3.0	10
38	Semiclassical study of collision-induced predissociation: Comparison of the Landau-Zener model with the method of analytic continuation. <i>Theoretica Chimica Acta</i> , 1977, 44, 341-350.	0.8	9
39	First Observation of an Identity-Forbidden Transition in Two-Photon Absorption Spectroscopy: $\Pi \rightarrow \Sigma$ Transition in CO. <i>Physical Review Letters</i> , 1984, 53, 156-158.	7.8	9
40	Non-Photochemical Pulsed-Laser-Induced Nucleation in a Continuous-Wave-Laser-Induced Phase-Separated Solution Droplet of Aqueous Glycine Formed by Optical Gradient Forces. <i>Crystal Growth and Design</i> , 2019, 19, 7372-7379.	3.0	8
41	Grain Growth Kinetics of AnBnStar Block Copolymers in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2005, 38, 4719-4728.	4.8	7
42	Grain Structure in Block Copolymer Thin Films Studied by Guided Wave Depolarized Light Scattering. <i>Macromolecules</i> , 2005, 38, 4282-4288.	4.8	6
43	Confined versus Unconfined Crystallization in Block Copolymer/Salt Mixtures Studied by Depolarized Light Scattering. <i>Macromolecules</i> , 2019, 52, 982-991.	4.8	6
44	Depolarized Scattering from Block Copolymer Grains Using Circularly Polarized Light. <i>Macromolecules</i> , 2017, 50, 5122-5131.	4.8	5
45	The separation of magnetic dipole and electric quadrupole contributions to Raman optical activity via the Raman-induced Kerr effect. <i>Optics Communications</i> , 1984, 49, 65-66.	2.1	4
46	Optical Kerr effect in carbon diselenide. <i>Chemical Physics Letters</i> , 1983, 94, 494-497.	2.6	3
47	On the origin of the dynamical differences between the Tang and Dalgarno-Henry-Roberts potentials for rigid rotor H ₂ -H collisions. <i>Journal of Chemical Physics</i> , 1983, 79, 2736-2741.	3.0	3
48	Order-Disorder Transitions in Block Copolymer Thin Films Studied by Guided Wave Depolarized Light Scattering with Grating Couplers. <i>Macromolecules</i> , 2008, 41, 4464-4470.	4.8	3
49	Thermoreversible Changes in Aligned and Cross-Linked Block Copolymer Melts Studied by Two Color Depolarized Light Scattering. <i>Macromolecules</i> , 2012, 45, 7590-7598.	4.8	3
50	Second-harmonic generation in pure p-nitroaniline and in composites with polystyrene by flash evaporation. <i>Optics Letters</i> , 1992, 17, 487.	3.3	2
51	Observation of Nematic Texture in a Diblock Copolymer Melt. <i>Macromolecules</i> , 2006, 39, 3377-3385.	4.8	1
52	Propagation of Elliptically Polarized Light through Ordered Block Copolymers. <i>Macromolecules</i> , 2021, 54, 8372-8380.	4.8	1
53	Miscible Polyether/Poly(ether-acetal) Electrolyte Blends. <i>Macromolecules</i> , 2020, 53, .	4.8	1
54	Multiphoton spectroscopy of molecules. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1985, 41, 515.	0.1	0

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55	Laser-induced Crystallization of Supersaturated Urea Solutions. Optics and Photonics News, 1997, 8, 32.	0.5	0
56	Measurement and Analysis of the Angular Guided-Wave Depolarized Light Scattering Patterns from Block Copolymer Thin Films. Macromolecules, 2010, 43, 10071-10077.	4.8	0