

Kevin A Cavicchi

List of Publications by Year in descending order

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papers

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citations

257450

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59
all docs

59
docs citations

59
times ranked

2428
citing authors

#	ARTICLE	IF	CITATIONS
1	Perspective: Ionomer Research and Applications. <i>Macromolecular Reaction Engineering</i> , 2014, 8, 81-99.	1.5	170
2	Synthesis, characterization, and antibacterial activity of metal nanoparticles embedded into amphiphilic comb-type graft copolymers. <i>Polymer Bulletin</i> , 2010, 65, 215-226.	3.3	84
3	Unidirectional Alignment of Block Copolymer Films Induced by Expansion of a Permeable Elastomer during Solvent Vapor Annealing. <i>Macromolecules</i> , 2014, 47, 1109-1116.	4.8	76
4	Facile Fabrication of a Shape Memory Polymer by Swelling Cross-Linked Natural Rubber with Stearic Acid. <i>ACS Macro Letters</i> , 2014, 3, 374-377.	4.8	70
5	Fused Filament Fabrication 4D Printing of a Highly Extensible, Self-Healing, Shape Memory Elastomer Based on Thermoplastic Polymer Blends. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 12777-12788.	8.0	64
6	Self-Diffusion and Tracer Diffusion in Sphere-Forming Block Copolymers. <i>Macromolecules</i> , 2003, 36, 7158-7164.	4.8	61
7	Supramolecular Multiblock Polystyrene- <i>b</i> -Polyisobutylene Copolymers via Ionic Interactions. <i>Macromolecules</i> , 2014, 47, 4387-4396.	4.8	61
8	A generalized method for alignment of block copolymer films: solvent vapor annealing with soft shear. <i>Soft Matter</i> , 2014, 10, 6068-6076.	2.7	58
9	Three-Dimensional Printed Shape Memory Objects Based on an Olefin Ionomer of Zinc-Neutralized Poly(ethylene-co-methacrylic acid). <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27239-27249.	8.0	58
10	An Ordered Nanoporous Monolith from an Elastomeric Crosslinked Block Copolymer Precursor. <i>Macromolecular Rapid Communications</i> , 2004, 25, 704-709.	3.9	56
11	Increased Flexibility in Polyimide Aerogels Using Aliphatic Spacers in the Polymer Backbone. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 9425-9437.	8.0	56
12	Synthesis and characterization of novel comb-type amphiphilic graft copolymers containing polypropylene and polyethylene glycol. <i>Polymer Bulletin</i> , 2010, 64, 691-705.	3.3	53
13	Digital Light Processing 3D Printing of Triple Shape Memory Polymer for Sequential Shape Shifting. , 2019, 1, 410-417.		53
14	Fluorinated polyhedral oligomeric silsesquioxane-based shape amphiphiles: molecular design, topological variation, and facile synthesis. <i>Polymer Chemistry</i> , 2012, 3, 2112.	3.9	46
15	Synthesis and Characterization of a Poly(styrene- <i>b</i> -methylacrylate- <i>co</i> -octadecylacrylate- <i>b</i> -styrene) Shape Memory ABA Triblock Copolymer. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 2797-2803.	8.0	37
16	Shape Memory Properties of Polystyrene- <i>b</i> -poly(ethylene-co-butylene)- <i>b</i> -polystyrene (SEBS) ABA Triblock Copolymer Thermoplastic Elastomers. <i>ACS Applied Polymer Materials</i> , 2019, 1, 414-424.	4.4	35
17	Anisotropic Self-Diffusion in Block Copolymer Cylinders. <i>Macromolecules</i> , 2004, 37, 6004-6012.	4.8	33
18	Tailor-Made Fluorinated Copolymer/Clay Nanocomposite by Cationic RAFT Assisted Pickering Miniemulsion Polymerization. <i>Langmuir</i> , 2015, 31, 12472-12480.	3.5	32

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19	Investigation of the relationships between the thermodynamic phase behavior and gelation behavior of a series of tripodal trisamide compounds. <i>Soft Matter</i> , 2012, 8, 6483.	2.7	31
20	Shape memory ionomers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 1389-1396.	2.1	31
21	Synthesis of polydimethylsiloxane-containing block copolymers via reversible addition fragmentation chain transfer (RAFT) polymerization. <i>Journal of Applied Polymer Science</i> , 2010, 115, 635-640.	2.6	28
22	Phase structural formation and oscillation in polystyrene-block-polydimethylsiloxane thin films. <i>Soft Matter</i> , 2012, 8, 7937.	2.7	27
23	Anisotropic Mechanical Properties of Aligned Polystyrene- <i>block</i> -polydimethylsiloxane Thin Films. <i>Macromolecules</i> , 2013, 46, 8608-8615.	4.8	27
24	Reversible Addition Fragmentation Chain Transfer (RAFT) Polymerization with a Polymeric RAFT Agent Containing Multiple Trithiocarbonate Groups. <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 1647-1653.	2.2	26
25	Solvent Dependence of the Morphology of Spin-Coated Thin Films of Polydimethylsiloxane-Rich Polystyrene- <i>block</i> -Polydimethylsiloxane Copolymers. <i>Macromolecules</i> , 2012, 45, 5538-5545.	4.8	25
26	Shape Memory Polymers from Blends of Elastomers and Small Molecule Additives. <i>Macromolecular Symposia</i> , 2015, 358, 194-201.	0.7	25
27	Structure-property relationships of fatty acid swollen, crosslinked natural rubber shape memory polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 673-688.	2.1	25
28	Synthesis and Polymerization of Substituted Ammonium Sulfonate Monomers for Advanced Materials Applications. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 518-526.	8.0	24
29	Role of Amphiphilic Block Copolymer Composition on Pore Characteristics of Micelle-Templated Mesoporous Cobalt Oxide Films. <i>Langmuir</i> , 2016, 32, 4077-4085.	3.5	24
30	Morphology Control in Mesoporous Carbon Films Using Solvent Vapor Annealing. <i>Langmuir</i> , 2013, 29, 3428-3438.	3.5	23
31	Highly aligned, large pore ordered mesoporous carbon films by solvent vapor annealing with soft shear. <i>Carbon</i> , 2015, 82, 51-59.	10.3	23
32	Polyelectrolyte-Surfactant Complexes as Thermoreversible Organogelators. <i>Macromolecules</i> , 2011, 44, 8622-8630.	4.8	22
33	Domain size equilibration in sphere-forming block copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 715-724.	2.1	21
34	The poor solubility of ureidopyrimidone can be used to form gels of low molecular weight N-alkyl urea oligomers in organic solvents. <i>Colloid and Polymer Science</i> , 2014, 292, 477-484.	2.1	21
35	Bicontinuous mesoporous carbon thin films via an order-order transition. <i>Chemical Communications</i> , 2014, 50, 12684-12687.	4.1	21
36	Sulfonation Distribution in Sulfonated Polystyrene Ionomers Measured by MALDI-ToF MS. <i>ACS Macro Letters</i> , 2013, 2, 217-221.	4.8	20

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37	Nanoporous Nonwoven Fibril-Like Morphology by Cooperative Self-Assembly of Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 101	3.5	19
38	Bimodal Porous Carbon-Silica Nanocomposites for Li-Ion Batteries. Journal of Physical Chemistry C, 2017, 121, 16702-16709.	3.1	19
39	Synthesis of poly(trioctylammonium p-styrenesulfonate) homopolymers and block copolymers by RAFT polymerization. Polymer, 2009, 50, 6212-6217.	3.8	18
40	Impact of Homopolymer Pore Expander on the Morphology of Mesoporous Carbon Films Using Organic Self-Assembly. Journal of Physical Chemistry C, 2012, 116, 6038-6046.	3.1	17
41	Syntheses of quaternary ammonium-containing, trithiocarbonate RAFT agents and hemi-telechelic cationomers. Polymer Chemistry, 2014, 5, 1180-1190.	3.9	14
42	Sequential shapeshifting 4D printing: programming the pathway of multi-shape transformation by 3D printing stimuli-responsive polymers. Multifunctional Materials, 2020, 3, 042002.	3.7	14
43	Synthesis of sulfonated polystyrene via reversible addition fragmentation chain transfer polymerization and postpolymerization modification. Journal of Polymer Science Part A, 2011, 49, 5100-5108.	2.3	13
44	Evolution in surface morphology during rapid microwave annealing of PS-b-PMMA thin films. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 1499-1506.	2.1	12
45	Thickness Limit for Alignment of Block Copolymer Films Using Solvent Vapor Annealing with Shear. Macromolecules, 2018, 51, 4213-4219.	4.8	12
46	Facile lithographic route to highly aligned silica nanopatterns using unidirectionally aligned polystyrene-block-polydimethylsiloxane films. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 1058-1064.	2.1	11
47	Cooperative Assembly of Metal Nitrate and Citric Acid with Block Copolymers: Role of Carbonate Conversion Temperature on the Mesostructure of Ordered Porous Oxides. Journal of Physical Chemistry C, 2015, 119, 12138-12148.	3.1	11
48	Stearic acid infused polyurethane shape memory foams. Polymer, 2018, 153, 131-138.	3.8	11
49	Synthesis and characterization of quaternary phosphonium-containing, trithiocarbonate RAFT agents. Polymer Chemistry, 2014, 5, 5492-5500.	3.9	10
50	Tuning the Viscoelastic Properties of Poly(<i>n</i> -butyl acrylate) Ionomer Networks through the Use of Ion-Pair Comonomers. Macromolecules, 2017, 50, 9473-9481.	4.8	9
51	Crosslinked Poly(Octadecyl Acrylate)/Polybutadiene Shape Memory Polymer Blends Prepared by Simultaneous Free Radical Crosslinking, Grafting and Polymerization of Octadecyl Acrylate/Polybutadiene Blends. Macromolecular Rapid Communications, 2021, 42, e2100072.	3.9	9
52	Shaping shape-memory. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 1293-1294.	2.1	6
53	Dynamical Correlations for Statistical Copolymers from High-Throughput Broad-Band Dielectric Spectroscopy. ACS Combinatorial Science, 2019, 21, 276-299.	3.8	5
54	Systematic Modification of the Glass Transition Temperature of Ion-Pair Comonomer Based Polyelectrolytes and Ionomers by Copolymerization with a Chemically Similar Cationic Monomer. Gels, 2021, 7, 45.	4.5	5

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55	Imaging magnetic flux lines with iron oxide nanoparticles using a "fossilized liquid assembly". <i>Soft Matter</i> , 2011, 7, 5756.	2.7	4
56	Structure-Property Relationships of Shape Memory, Semicrystalline Polymers Fabricated by In Situ Polymerization and Crosslinking of Octadecyl Acrylate/Polybutadiene Blends. <i>Macromolecular Rapid Communications</i> , 2023, 44, .	3.9	3
57	Structural Control in Block Copolymer-Templated Nanoporous Carbon Films. <i>ACS Symposium Series</i> , 2014, , 35-60.	0.5	0
58	The Importance of Phase Behavior in Understanding Structure-Property Relationships in Crystalline Small Molecule/Polymer Gels. <i>ACS Symposium Series</i> , 2018, , 245-264.	0.5	0