

# Kevin A Cavicchi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5395429/publications.pdf>

Version: 2024-02-01

58  
papers

1,770  
citations

257450

24  
h-index

302126

39  
g-index

59  
all docs

59  
docs citations

59  
times ranked

2428  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Fused Filament Fabrication 4D Printing of a Highly Extensible, Self-Healing, Shape Memory Elastomer Based on Thermoplastic Polymer Blends. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 12777-12788.	8.0	64
3	Crosslinked Poly(Octadecyl Acrylate)/Polybutadiene Shape Memory Polymer Blends Prepared by Simultaneous Free Radical Crosslinking, Grafting and Polymerization of Octadecyl Acrylate/Polybutadiene Blends. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100072.	3.9	9
4	Systematic Modification of the Glass Transition Temperature of Ion-Pair Comonomer Based Polyelectrolytes and Ionomers by Copolymerization with a Chemically Similar Cationic Monomer. <i>Gels</i> , 2021, 7, 45.	4.5	5
5	Sequential shapeshifting 4D printing: programming the pathway of multi-shape transformation by 3D printing stimuli-responsive polymers. <i>Multifunctional Materials</i> , 2020, 3, 042002.	3.7	14
6	Digital Light Processing 3D Printing of Triple Shape Memory Polymer for Sequential Shape Shifting. , 2019, 1, 410-417.		53
7	Increased Flexibility in Polyimide Aerogels Using Aliphatic Spacers in the Polymer Backbone. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 9425-9437.	8.0	56
8	Shape Memory Properties of Polystyrene- <i>block</i> -poly(ethylene- <i>co</i> -butylene)- <i>block</i> -polystyrene (SEBS) ABA Triblock Copolymer Thermoplastic Elastomers. <i>ACS Applied Polymer Materials</i> , 2019, 1, 414-424.	4.4	35
9	Dynamical Correlations for Statistical Copolymers from High-Throughput Broad-Band Dielectric Spectroscopy. <i>ACS Combinatorial Science</i> , 2019, 21, 276-299.	3.8	5
10	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
11	Thickness Limit for Alignment of Block Copolymer Films Using Solvent Vapor Annealing with Shear. <i>Macromolecules</i> , 2018, 51, 4213-4219.	4.8	12
12	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
13	Stearic acid infused polyurethane shape memory foams. <i>Polymer</i> , 2018, 153, 131-138.	3.8	11
14	Bimodal Porous Carbon-Silica Nanocomposites for Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16702-16709.	3.1	19
15	Tuning the Viscoelastic Properties of Poly( <i>n</i> -butyl acrylate) Ionomer Networks through the Use of Ion-Pair Comonomers. <i>Macromolecules</i> , 2017, 50, 9473-9481.	4.8	9
16	Three-Dimensional Printed Shape Memory Objects Based on an Olefin Ionomer of Zinc-Neutralized Poly(ethylene- <i>co</i> -methacrylic acid). <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 27239-27249.	8.0	58
17	Shape memory ionomers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 1389-1396.	2.1	31
18	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

#	ARTICLE	IF	CITATIONS
19	Shaping shape-memory. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 1293-1294.	2.1	6
20	Evolution in surface morphology during rapid microwave annealing of PS-b-PMMA thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 1499-1506.	2.1	12
21	Shape Memory Polymers from Blends of Elastomers and Small Molecule Additives. <i>Macromolecular Symposia</i> , 2015, 358, 194-201.	0.7	25
22	Facile non-lithographic route to highly aligned silica nanopatterns using unidirectionally aligned polystyrene-block-polydimethylsiloxane films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 1058-1064.	2.1	11
23	Cooperative Assembly of Metal Nitrate and Citric Acid with Block Copolymers: Role of Carbonate Conversion Temperature on the Mesosstructure of Ordered Porous Oxides. <i>Journal of Physical Chemistry C</i> , 2015, 119, 12138-12148.	3.1	11
24	Tailor-Made Fluorinated Copolymer/Clay Nanocomposite by Cationic RAFT Assisted Pickering Miniemulsion Polymerization. <i>Langmuir</i> , 2015, 31, 12472-12480.	3.5	32
25	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
26	Perspective: Ionomer Research and Applications. <i>Macromolecular Reaction Engineering</i> , 2014, 8, 81-99.	1.5	170
27	Structural Control in Block Copolymer-Templated Nanoporous Carbon Films. <i>ACS Symposium Series</i> , 2014, , 35-60.	0.5	0
28	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
29	Syntheses of quaternary ammonium-containing, trithiocarbonate RAFT agents and hemi-telechelic cationomers. <i>Polymer Chemistry</i> , 2014, 5, 1180-1190.	3.9	14
30	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
31	Bicontinuous mesoporous carbon thin films via an order-order transition. <i>Chemical Communications</i> , 2014, 50, 12684-12687.	4.1	21
32	Synthesis and characterization of quaternary phosphonium-containing, trithiocarbonate RAFT agents. <i>Polymer Chemistry</i> , 2014, 5, 5492-5500.	3.9	10
33	Nanoporous Nonwoven Fibril-Like Morphology by Cooperative Self-Assembly of Poly(ethylene) Tj ETQq1 1 0.784314 gBT / Overlock 101	3.5	19
34	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
35	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
36	Supramolecular Multiblock Polystyrene-Polyisobutylene Copolymers via Ionic Interactions. <i>Macromolecules</i> , 2014, 47, 4387-4396.	4.8	61

#	ARTICLE	IF	CITATIONS
37	Morphology Control in Mesoporous Carbon Films Using Solvent Vapor Annealing. <i>Langmuir</i> , 2013, 29, 3428-3438.	3.5	23
38	Anisotropic Mechanical Properties of Aligned Polystyrene- <i>block</i> -polydimethylsiloxane Thin Films. <i>Macromolecules</i> , 2013, 46, 8608-8615.	4.8	27
39	Sulfonation Distribution in Sulfonated Polystyrene Ionomers Measured by MALDI-ToF MS. <i>ACS Macro Letters</i> , 2013, 2, 217-221.	4.8	20
40	Fluorinated polyhedral oligomeric silsesquioxane-based shape amphiphiles: molecular design, topological variation, and facile synthesis. <i>Polymer Chemistry</i> , 2012, 3, 2112.	3.9	46
41	Synthesis and Polymerization of Substituted Ammonium Sulfonate Monomers for Advanced Materials Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 518-526.	8.0	24
42	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
43	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
44	Phase structural formation and oscillation in polystyrene- <i>block</i> -polydimethylsiloxane thin films. <i>Soft Matter</i> , 2012, 8, 7937.	2.7	27
45	Impact of Homopolymer Pore Expander on the Morphology of Mesoporous Carbon Films Using Organic Self-Assembly. <i>Journal of Physical Chemistry C</i> , 2012, 116, 6038-6046.	3.1	17
46	Imaging magnetic flux lines with iron oxide nanoparticles using a "fossilized liquid assembly". <i>Soft Matter</i> , 2011, 7, 5756.	2.7	4
47	Polyelectrolyte "Surfactant Complexes as Thermoreversible Organogelators. <i>Macromolecules</i> , 2011, 44, 8622-8630.	4.8	22
48	Synthesis of "sulfonated polystyrene via reversible addition fragmentation chain transfer polymerization and postpolymerization modification. <i>Journal of Polymer Science Part A</i> , 2011, 49, 5100-5108.	2.3	13
49	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
50	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
51	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
52	Synthesis and Characterization of a Poly(styrene- <i>block</i> -methylacrylate- <i>random</i> -octadecylacrylate- <i>block</i> -styrene) Shape Memory ABA Triblock Copolymer. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 2797-2803.	8.0	37
53	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
54	Synthesis of poly(trioctylammonium p-styrenesulfonate) homopolymers and block copolymers by RAFT polymerization. <i>Polymer</i> , 2009, 50, 6212-6217.	3.8	18

#	ARTICLE	IF	CITATIONS
55	An Ordered Nanoporous Monolith from an Elastomeric Crosslinked Block Copolymer Precursor. <i>Macromolecular Rapid Communications</i> , 2004, 25, 704-709.	3.9	56
56	Anisotropic Self-Diffusion in Block Copolymer Cylinders. <i>Macromolecules</i> , 2004, 37, 6004-6012.	4.8	33
57	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
58	Self-Diffusion and Tracer Diffusion in Sphere-Forming Block Copolymers. <i>Macromolecules</i> , 2003, 36, 7158-7164.	4.8	61