

# Daniel A Savin

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

1,653  
citations

331670

21  
h-index

302126

39  
g-index

41  
all docs

41  
docs citations

41  
times ranked

2404  
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalyst-Free Vitrimers from Vinyl Polymers. <i>Macromolecules</i> , 2019, 52, 2105-2111.	4.8	205
2	Synthesis of Well-Defined Block Copolymers Tethered to Polysilsesquioxane Nanoparticles and Their Nanoscale Morphology on Surfaces. <i>Journal of the American Chemical Society</i> , 2001, 123, 9445-9446.	13.7	171
3	Tuning Hydrophobicity To Program Block Copolymer Assemblies from the Inside Out. <i>Macromolecules</i> , 2017, 50, 935-943.	4.8	166
4	Synthesis and characterization of silica-graft-polystyrene hybrid nanoparticles: Effect of constraint on the glass-transition temperature of spherical polymer brushes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002, 40, 2667-2676.	2.1	149
5	Dynamic-covalent nanostructures prepared by Diels-Alder reactions of styrene-maleic anhydride-derived copolymers obtained by one-step cascade block copolymerization. <i>Polymer Chemistry</i> , 2012, 3, 3112.	3.9	99
6	The Next 100 Years of Polymer Science. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 2000216.	2.2	69
7	Temperature- and pH-Responsive Self-assembly of Poly(propylene oxide)- <i>b</i> -Poly(lysine) Block Copolymers in Aqueous Solution. <i>Langmuir</i> , 2011, 27, 7231-7240.	3.5	66
8	Rod-Sphere Transition in Polybutadiene- <i>b</i> -Poly(L-lysine) Block Copolymer Assemblies. <i>Langmuir</i> , 2007, 23, 2851-2856.	3.5	62
9	Systematic Insights from Medicinal Chemistry To Discern the Nature of Polymer Hydrophobicity. <i>Macromolecules</i> , 2015, 48, 7230-7236.	4.8	61
10	Hollow polymer nanocapsules: synthesis, properties, and applications. <i>Polymer Chemistry</i> , 2018, 9, 2059-2081.	3.9	58
11	Polypropylene: Now Available without Chain Ends. <i>Chem</i> , 2019, 5, 237-244.	11.7	53
12	Thiol-alkyne click chemistry as a route to functional lipid mimetics. <i>Polymer Chemistry</i> , 2011, 2, 303-305.	3.9	45
13	Allomelanin: A Biopolymer of Intrinsic Microporosity. <i>Journal of the American Chemical Society</i> , 2021, 143, 4005-4016.	13.7	41
14	Stimuli-Responsive Peptide-Based ABA Triblock Copolymers: Unique Morphology Transitions With pH. <i>Macromolecular Rapid Communications</i> , 2012, 33, 819-826.	3.9	39
15	Peptide-based lipid mimetics with tunable core properties via thiol-alkyne chemistry. <i>Polymer Chemistry</i> , 2011, 2, 1536.	3.9	34
16	Poly(L-lysine)-Based Organogels: Effect of Interfacial Frustration on Gel Strength. <i>Macromolecules</i> , 2009, 42, 7114-7121.	4.8	33
17	Self-assembly and responsiveness of polypeptide-based block copolymers: How smart behavior and topological complexity yield unique assembly in aqueous media. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 508-523.	2.1	30
18	Sequential Thiol Click Reactions: Formation of Ternary Thiourethane/Thiol-Ene Networks with Enhanced Thermal and Mechanical Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 6088-6097.	8.0	28

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19	Chain Dispersy Effects on Brush Properties of Surface-Grafted Polycaprolactone-Modified Silica Nanoparticles: Unique Scaling Behavior in the Concentrated Polymer Brush Regime. <i>Macromolecules</i> , 2017, 50, 5565-5573.	4.8	28
20	Self-Assembly of Oligo- and Polypeptide-Based Amphiphiles: Recent Advances and Future Possibilities. <i>Macromolecules</i> , 2019, 52, 1899-1911.	4.8	26
21	Glycerol-Based Dendrimer Nanocomposite Film as a Tunable pH-Sensor for Food Packaging. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 23268-23281.	8.0	23
22	Hollow amphiphilic crosslinked nanocapsules from sacrificial silica nanoparticle templates and their application as dispersants for oil spill remediation. <i>Polymer Chemistry</i> , 2017, 8, 5129-5138.	3.9	21
23	Modular and rapid access to amphiphilic homopolymers via successive chemoselective post-polymerization modification. <i>Polymer Chemistry</i> , 2017, 8, 6028-6032.	3.9	19
24	Solvent effects on modulus of poly(propylene oxide)-based organogels as measured by cavitation rheology. <i>Soft Matter</i> , 2016, 12, 4991-5001.	2.7	18
25	Unraveling Polymer Structures with RAFT Polymerization and Diels-Alder Chemistry. <i>Macromolecules</i> , 2019, 52, 1308-1316.	4.8	15
26	Modular Genetic Code Expansion Platform and PISA Yield Well-Defined Protein-Polymer Assemblies. <i>Biomacromolecules</i> , 2020, 21, 5077-5085.	5.4	13
27	Quantitative relationship between cavitation and shear rheology. <i>Soft Matter</i> , 2018, 14, 8395-8400.	2.7	12
28	Probing Membrane Hydration at the Interface of Self-Assembled Peptide Amphiphiles Using Electron Paramagnetic Resonance. <i>ACS Macro Letters</i> , 2018, 7, 1261-1266.	4.8	10
29	Hierarchical Fractal Assemblies from Poly(ethylene oxide-b-lysine-b-leucine). <i>Biomacromolecules</i> , 2019, 20, 2557-2566.	5.4	10
30	Toxicity assessment of a novel oil dispersant based on silica nanoparticles using Fathead minnow. <i>Aquatic Toxicology</i> , 2020, 229, 105653.	4.0	8
31	Darunavir-Resistant HIV-1 Protease Constructs Uphold a Conformational Selection Hypothesis for Drug Resistance. <i>Viruses</i> , 2020, 12, 1275.	3.3	8
32	Mediating covalent crosslinking of single-chain nanoparticles through solvophobicity in organic solvents. <i>Polymer Chemistry</i> , 2021, 12, 4462-4466.	3.9	8
33	UV-induced vesicle to micelle transition: a mechanistic study. <i>Polymer Chemistry</i> , 2019, 10, 6037-6046.	3.9	6
34	Synthesis and Characterization of a Leucine-Based Block Co-Polypeptide: The Effect of the Leucine Zipper on Self-Assembly. <i>Biomacromolecules</i> , 2020, 21, 2463-2472.	5.4	6
35	Microbatch Mixing: "Shaken not Stirred", a Method for Macromolecular Microcrystal Production for Serial Crystallography. <i>Crystal Growth and Design</i> , 2016, 16, 6214-6221.	3.0	4
36	Synthesis of poly(caprolactone)- <i>block</i> -poly[oligo(ethylene glycol)methyl methacrylate] amphiphilic grafted nanoparticles (AGNs) as improved oil dispersants. <i>Polymer Chemistry</i> , 2021, 12, 4758-4769.	3.9	4

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37	Evidence for the $\hat{\tau}^3$ -relaxation in the light scattering spectra of poly (n-hexyl methacrylate) near the glass transition. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 1504-1519.	2.1	2
38	Solution size variation of linear and dendritic bis-MPA analogs using DOSY- <sup>1</sup> H NMR. Polymer Chemistry, 2021, 12, 1507-1517.	3.9	2
39	Entrepreneurship in Polymer Chemistry. ACS Macro Letters, 2021, 10, 864-872.	4.8	1
40	Bob Cave Memorial. Journal of Physical Chemistry A, 2021, 125, 4037-4038.	2.5	0
41	The Synthesis of Protein Polymer Conjugates using the Human Regulatory Protein Galectin-3. Journal of Undergraduate Research (Gainesville, Fla ), 2020, 21, .	0.0	0