

# Sivaprakash Shanmugam

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/456537/publications.pdf>

Version: 2024-02-01

42  
papers

6,235  
citations

147801

31  
h-index

289244

40  
g-index

43  
all docs

43  
docs citations

43  
times ranked

4270  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid, green synthesis of high performance viscosifiers <i>via</i> a photoiniferter approach for water-based drilling fluids. <i>Polymer Chemistry</i> , 2021, 12, 6705-6713.	3.9	4
2	High performance-branched microgels as universal viscosifiers for water-based drilling fluids. <i>MRS Communications</i> , 2021, 11, 755-761.	1.8	0
3	Toward Electrochemically Mediated Reversible Addition-Fragmentation Chain-Transfer (<i>e</i>RAFT) Polymerization: Can Propagating Radicals Be Efficiently Electrogenerated from RAFT Agents?. <i>Macromolecules</i> , 2019, 52, 1479-1488.	4.8	48
4	Transformation of gels <i>via</i> catalyst-free selective RAFT photoactivation. <i>Polymer Chemistry</i> , 2019, 10, 2477-2483.	3.9	52
5	What happens in the dark? Assessing the temporal control of photo-mediated controlled radical polymerizations. <i>Journal of Polymer Science Part A</i> , 2019, 57, 268-273.	2.3	81
6	Towards Sequence-Controlled Antimicrobial Polymers: Effect of Polymer Block Order on Antimicrobial Activity. <i>Angewandte Chemie</i> , 2018, 130, 4649-4654.	2.0	43
7	Color-Coding Visible Light Polymerizations To Elucidate the Activation of Trithiocarbonates Using Eosin Y. <i>Macromolecules</i> , 2018, 51, 1370-1376.	4.8	126
8	Towards Sequence-Controlled Antimicrobial Polymers: Effect of Polymer Block Order on Antimicrobial Activity. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4559-4564.	13.8	145
9	Heterogeneous Photocatalysis as a Means for Improving Recyclability of Organocatalyst in "Living" Radical Polymerization. <i>Macromolecules</i> , 2018, 51, 779-790.	4.8	104
10	Structurally Tailored and Engineered Macromolecular (STEM) Gels as Soft Elastomers and Hard/Soft Interfaces. <i>Macromolecules</i> , 2018, 51, 9184-9191.	4.8	31
11	Catalyst-Free Selective Photoactivation of RAFT Polymerization: A Facile Route for Preparation of Comblike and Bottlebrush Polymers. <i>Macromolecules</i> , 2018, 51, 7776-7784.	4.8	67
12	Reversible Deactivation Radical Polymerization: State-of-the-Art in 2017. <i>ACS Symposium Series</i> , 2018, , 1-39.	0.5	7
13	Recent Developments in External Regulation of Reversible Addition Fragmentation Chain Transfer (RAFT) Polymerization. <i>ACS Symposium Series</i> , 2018, , 273-290.	0.5	6
14	Living Additive Manufacturing. <i>ACS Central Science</i> , 2017, 3, 95-96.	11.3	10
15	Photoinduced Oxygen Reduction for Dark Polymerization. <i>Macromolecules</i> , 2017, 50, 1832-1846.	4.8	72
16	Photocontrolled Living Polymerization Systems with Reversible Deactivations through Electron and Energy Transfer. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700143.	3.9	133
17	Synthesis of Discrete Oligomers by Sequential PET-RRAFT Single-Unit Monomer Insertion. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8376-8383.	13.8	165
18	Synthesis of Discrete Oligomers by Sequential PET-RRAFT Single-Unit Monomer Insertion. <i>Angewandte Chemie</i> , 2017, 129, 8496-8503.	2.0	36

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19	Frontispiece: Synthesis of Discrete Oligomers by Sequential PET-RAFT Single-Unit Monomer Insertion. <i>Angewandte Chemie - International Edition</i> , 2017, 56, .	13.8	1
20	Frontispiz: Synthesis of Discrete Oligomers by Sequential PET-RAFT Single-Unit Monomer Insertion. <i>Angewandte Chemie</i> , 2017, 129, .	2.0	0
21	Chlorophyll a crude extract: efficient photo-degradable photocatalyst for PET-RAFT polymerization. <i>Chemical Communications</i> , 2017, 53, 12560-12563.	4.1	58
22	Aqueous RAFT Photopolymerization with Oxygen Tolerance. <i>Macromolecules</i> , 2016, 49, 9345-9357.	4.8	121
23	Organic photocatalysts for cleaner polymer synthesis. <i>Science</i> , 2016, 352, 1053-1054.	12.6	84
24	Photocatalysis in organic and polymer synthesis. <i>Chemical Society Reviews</i> , 2016, 45, 6165-6212.	38.1	587
25	A logic gate for external regulation of photopolymerization. <i>Polymer Chemistry</i> , 2016, 7, 6437-6449.	3.9	50
26	A Polymerization-Induced Self-Assembly Approach to Nanoparticles Loaded with Singlet Oxygen Generators. <i>Macromolecules</i> , 2016, 49, 7277-7285.	4.8	135
27	Light-Regulated Polymerization under Near-Infrared/Far-Red Irradiation Catalyzed by Bacteriochlorophyll... <i>Angewandte Chemie</i> , 2016, 128, 1048-1052.	2.0	56
28	Light-Regulated Polymerization under Near-Infrared/Far-Red Irradiation Catalyzed by Bacteriochlorophyll... <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1036-1040.	13.8	294
29	Star Polymers. <i>Chemical Reviews</i> , 2016, 116, 6743-6836.	47.7	653
30	Selective Photoactivation: From a Single Unit Monomer Insertion Reaction to Controlled Polymer Architectures. <i>Journal of the American Chemical Society</i> , 2016, 138, 3094-3106.	13.7	250
31	Copper-Mediated Living Radical Polymerization (Atom Transfer Radical Polymerization and Copper(0)) <i>Tj ETQq1 1 0.784314 rgBT /Over</i> 1803-1949.	47.7	405
32	Detecting a Quasi-stable Imine Species on the Reaction Pathway of SHV-1 Î²-Lactamase and 6Î²-(Hydroxymethyl)penicillanic Acid Sulfone. <i>Biochemistry</i> , 2015, 54, 734-743.	2.5	7
33	Exploiting Metalloporphyrins for Selective Living Radical Polymerization Tunable over Visible Wavelengths. <i>Journal of the American Chemical Society</i> , 2015, 137, 9174-9185.	13.7	427
34	Stereo-, Temporal and Chemical Control through Photoactivation of Living Radical Polymerization: Synthesis of Block and Gradient Copolymers. <i>Journal of the American Chemical Society</i> , 2015, 137, 9988-9999.	13.7	155
35	Catalyst-Free Visible Light-Induced RAFT Photopolymerization. <i>ACS Symposium Series</i> , 2015, , 247-267.	0.5	107
36	Organic Electron Donor-Acceptor Photoredox Catalysts: Enhanced Catalytic Efficiency toward Controlled Radical Polymerization. <i>ACS Macro Letters</i> , 2015, 4, 926-932.	4.8	79

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37	Utilizing the electron transfer mechanism of chlorophyll a under light for controlled radical polymerization. <i>Chemical Science</i> , 2015, 6, 1341-1349.	7.4	218
38	Organo-photocatalysts for photoinduced electron transfer-reversible addition-fragmentation chain transfer (PET-RAFT) polymerization. <i>Polymer Chemistry</i> , 2015, 6, 5615-5624.	3.9	368
39	A Robust and Versatile Photoinduced Living Polymerization of Conjugated and Unconjugated Monomers and Its Oxygen Tolerance. <i>Journal of the American Chemical Society</i> , 2014, 136, 5508-5519.	13.7	801
40	Photoinduced Electron Transfer-Reversible Addition-Fragmentation Chain Transfer (PET-RAFT) Polymerization of Vinyl Acetate and <i>N</i> -Vinylpyrrolidinone: Kinetic and Oxygen Tolerance Study. <i>Macromolecules</i> , 2014, 47, 4930-4942.	4.8	216
41	Raman Spectra of Interchanging $\beta$ -Lactamase Inhibitor Intermediates on the Millisecond Time Scale. <i>Journal of the American Chemical Society</i> , 2013, 135, 2895-2898.	13.7	12
42	Carboxylation and Decarboxylation of Active Site Lys 84 Controls the Activity of OXA-24 $\beta$ -Lactamase of <i>Acinetobacter baumannii</i> : Raman Crystallographic and Solution Evidence. <i>Journal of the American Chemical Society</i> , 2012, 134, 11206-11215.	13.7	21