# 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 | A Robust and Versatile Photoinduced Living Polymerization of Conjugated and Unconjugated Monomers and Its Oxygen Tolerance. Journal of the American Chemical Society, 2014, 136, 5508-5519. | 13.7 | 801 |
| 2 | Star Polymers. Chemical Reviews, 2016, 116, 6743-6836. | 47.7 | 653 |
| 3 | Photocatalysis in organic and polymer synthesis. Chemical Society Reviews, 2016, 45, 6165-6212. | 38.1 | 587 |
| 4 | Exploiting Metalloporphyrins for Selective Living Radical Polymerization Tunable over Visible Wavelengths. Journal of the American Chemical Society, 2015, 137, 9174-9185. | 13.7 | 427 |
| 5 | Copper-Mediated Living Radical Polymerization (Atom Transfer Radical Polymerization and Copper(0)) Tj ETQq1 1 0.784314 rgBT /Over 1803-1949. | 47.7 | 405 |
| 6 | Organo-photocatalysts for photoinduced electron transfer-reversible additionâ€“fragmentation chain transfer (PET-RAFT) polymerization. Polymer Chemistry, 2015, 6, 5615-5624. | 3.9 | 368 |
| 7 | Lightâ€Regulated Polymerization under Nearâ€Infrared/Farâ€Red Irradiation Catalyzed by Bacteriochlorophyllâ€…a. Angewandte Chemie - International Edition, 2016, 55, 1036-1040. | 13.8 | 294 |
| 8 | Selective Photoactivation: From a Single Unit Monomer Insertion Reaction to Controlled Polymer Architectures. Journal of the American Chemical Society, 2016, 138, 3094-3106. | 13.7 | 250 |
| 9 | Utilizing the electron transfer mechanism of chlorophyll a under light for controlled radical polymerization. Chemical Science, 2015, 6, 1341-1349. | 7.4 | 218 |
| 10 | Photoinduced Electron Transferâ€“Reversible Additionâ€“Fragmentation Chain Transfer (PET-RAFT) Polymerization of Vinyl Acetate and N-Vinylpyrrolidinone: Kinetic and Oxygen Tolerance Study. Macromolecules, 2014, 47, 4930-4942. | 4.8 | 216 |
| 11 | Synthesis of Discrete Oligomers by Sequential PETâ€RAFT Singleâ€Unit Monomer Insertion. Angewandte Chemie - International Edition, 2017, 56, 8376-8383. | 13.8 | 165 |
| 12 | Stereo-, Temporal and Chemical Control through Photoactivation of Living Radical Polymerization: Synthesis of Block and Gradient Copolymers. Journal of the American Chemical Society, 2015, 137, 9988-9999. | 13.7 | 155 |
| 13 | Towards Sequenceâ€Controlled Antimicrobial Polymers: Effect of Polymer Block Order on Antimicrobial Activity. Angewandte Chemie - International Edition, 2018, 57, 4559-4564. | 13.8 | 145 |
| 14 | A Polymerization-Induced Self-Assembly Approach to Nanoparticles Loaded with Singlet Oxygen Generators. Macromolecules, 2016, 49, 7277-7285. | 4.8 | 135 |
| 15 | Photocontrolled Living Polymerization Systems with Reversible Deactivations through Electron and Energy Transfer. Macromolecular Rapid Communications, 2017, 38, 1700143. | 3.9 | 133 |
| 16 | Color-Coding Visible Light Polymerizations To Elucidate the Activation of Trithiocarbonates Using Eosin Y. Macromolecules, 2018, 51, 1370-1376. | 4.8 | 126 |
| 17 | Aqueous RAFT Photopolymerization with Oxygen Tolerance. Macromolecules, 2016, 49, 9345-9357. | 4.8 | 121 |
| 18 | Catalyst-Free Visible Light-Induced RAFT Photopolymerization. ACS Symposium Series, 2015, , 247-267. | 0.5 | 107 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Heterogeneous Photocatalysis as a Means for Improving Recyclability of Organocatalyst in â€œLivingâ€• Radical Polymerization. Macromolecules, 2018, 51, 779-790. | 4.8 | 104 |
| 20 | Organic photocatalysts for cleaner polymer synthesis. Science, 2016, 352, 1053-1054. | 12.6 | 84 |
| 21 | What happens in the dark? Assessing the temporal control of photoâ€•mediated controlled radical polymerizations. Journal of Polymer Science Part A, 2019, 57, 268-273. | 2.3 | 81 |
| 22 | Organic Electron Donorâ€“Acceptor Photoredox Catalysts: Enhanced Catalytic Efficiency toward Controlled Radical Polymerization. ACS Macro Letters, 2015, 4, 926-932. | 4.8 | 79 |
| 23 | Photoinduced Oxygen Reduction for Dark Polymerization. Macromolecules, 2017, 50, 1832-1846. | 4.8 | 72 |
| 24 | Catalyst-Free Selective Photoactivation of RAFT Polymerization: A Facile Route for Preparation of Comblike and Bottlebrush Polymers. Macromolecules, 2018, 51, 7776-7784. | 4.8 | 67 |
| 25 | Chlorophyll a crude extract: efficient photo-degradable photocatalyst for PET-RAFT polymerization. Chemical Communications, 2017, 53, 12560-12563. | 4.1 | 58 |
| 26 | Lightâ€Regulated Polymerization under Nearâ€Infrared/Farâ€Red Irradiation Catalyzed by Bacteriochlorophyllâ€…a. Angewandte Chemie, 2016, 128, 1048-1052. | 2.0 | 56 |
| 27 | Transformation of gels via catalyst-free selective RAFT photoactivation. Polymer Chemistry, 2019, 10, 2477-2483. | 3.9 | 52 |
| 28 | A logic gate for external regulation of photopolymerization. Polymer Chemistry, 2016, 7, 6437-6449. | 3.9 | 50 |
| 29 | Toward Electrochemically Mediated Reversible Additionâ€“Fragmentation Chain-Transfer (eRAFT) Polymerization: Can Propagating Radicals Be Efficiently Electrogenerated from RAFT Agents?. Macromolecules, 2019, 52, 1479-1488. | 4.8 | 48 |
| 30 | Towards Sequenceâ€Controlled Antimicrobial Polymers: Effect of Polymer Block Order on Antimicrobial Activity. Angewandte Chemie, 2018, 130, 4649-4654. | 2.0 | 43 |
| 31 | Synthesis of Discrete Oligomers by Sequential PETâ€RAFT Singleâ€Unit Monomer Insertion. Angewandte Chemie, 2017, 129, 8496-8503. | 2.0 | 36 |
| 32 | Structurally Tailored and Engineered Macromolecular (STEM) Gels as Soft Elastomers and Hard/Soft Interfaces. Macromolecules, 2018, 51, 9184-9191. | 4.8 | 31 |
| 33 | Carboxylation and Decarboxylation of Active Site Lys 84 Controls the Activity of OXA-24 Î²-Lactamase of Acinetobacter baumannii: Raman Crystallographic and Solution Evidence. Journal of the American Chemical Society, 2012, 134, 11206-11215. | 13.7 | 21 |
| 34 | Raman Spectra of Interchanging Î²-Lactamase Inhibitor Intermediates on the Millisecond Time Scale. Journal of the American Chemical Society, 2013, 135, 2895-2898. | 13.7 | 12 |
| 35 | Living Additive Manufacturing. ACS Central Science, 2017, 3, 95-96. | 11.3 | 10 |
| 36 | Detecting a Quasi-stable Imine Species on the Reaction Pathway of SHV-1 Î²-Lactamase and 6Î²-(Hydroxymethyl)penicillanic Acid Sulfone. Biochemistry, 2015, 54, 734-743. | 2.5 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Reversible Deactivation Radical Polymerization: State-of-the-Art in 2017. ACS Symposium Series, 2018, , 1-39. | 0.5 | 7 |
| 38 | Recent Developments in External Regulation of Reversible Addition Fragmentation Chain Transfer (RAFT) Polymerization. ACS Symposium Series, 2018, , 273-290. | 0.5 | 6 |
| 39 | Rapid, green synthesis of high performance viscosifiers via a photoiniferter approach for water-based drilling fluids. Polymer Chemistry, 2021, 12, 6705-6713. | 3.9 | 4 |
| 40 | Frontispiece: Synthesis of Discrete Oligomers by Sequential PETâ€RAFT Singleâ€Unit Monomer Insertion. Angewandte Chemie - International Edition, 2017, 56, . | 13.8 | 1 |
| 41 | Frontispiz: Synthesis of Discrete Oligomers by Sequential PETâ€RAFT Singleâ€Unit Monomer Insertion. Angewandte Chemie, 2017, 129, . | 2.0 | 0 |
| 42 | High performance-branched microgels as universal viscosifiers for water-based drillingÂfluids. MRS Communications, 2021, 11, 755-761. | 1.8 | 0 |