

# Swaminathan Sivaram

## List of Publications by Year in descending order

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74  
papers

2,899  
citations

304368

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168136

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75  
all docs

75  
docs citations

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times ranked

2977  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toughening Poly(lactide) Blends: Effectiveness of Sequence-Controlled Six-Arm Star-Branched Block Copolymers of Poly(lactide) and Poly( $\mu$ -caprolactone). ACS Omega, 2022, 7, 9118-9129.	1.6	10
2	In-situ interfacial compatibilization via edge-sulfurated few layer graphene during the formation of crosslinked graphene-rubber nanocomposites. Scientific Reports, 2022, 12, 4013.	1.6	2
3	Ultrahigh molecular weight polyethylene: Catalysis, structure, properties, processing and applications. Progress in Polymer Science, 2020, 109, 101290.	11.8	132
4	Understanding structure and composition of thermally rearranged polymers based on small molecule chemistry: a perspective. Polymer International, 2019, 68, 1649-1661.	1.6	1
5	Lithium Speciation in the LiPF <sub>6</sub> /PC Electrolyte Studied by Two-Dimensional Heteronuclear Overhauser Enhancement and Pulse-Field Gradient Diffusometry NMR. Journal of Physical Chemistry C, 2019, 123, 9661-9672.	1.5	20
6	Seeking Order in Chaos. Resonance, 2019, 24, 11-28.	0.2	1
7	Separator Membranes for Lithium-Sulfur Batteries: Design Principles, Structure, and Performance. Energy Technology, 2019, 7, 1800819.	1.8	19
8	Soluble polybenzimidazoles with intrinsic porosity: Synthesis, structure, properties and processability. Journal of Polymer Science Part A, 2018, 56, 1046-1057.	2.5	7
9	Poly(glycerol sebacate)-Based Polyester-Polyether Copolymers and Their Semi-Interpenetrated Networks with Thermoplastic Poly(ester ether) Elastomers: Preparation and Properties. ACS Omega, 2018, 3, 18714-18723.	1.6	19
10	Facile, environmentally benign and scalable approach to produce pristine few layers graphene suitable for preparing biocompatible polymer nanocomposites. Scientific Reports, 2018, 8, 11228.	1.6	24
11	Thermally conductive thin films derived from defect free graphene-natural rubber latex nanocomposite: Preparation and properties. Carbon, 2017, 119, 527-534.	5.4	36
12	Synthesis and characterization of well-defined random and block copolymers of $\mu$ -caprolactone with lactide as an additive for toughening polylactide: Influence of the molecular architecture. Journal of Applied Polymer Science, 2016, 133, .	1.3	18
13	Star Telechelic Poly(lactide) Ionomers. Macromolecules, 2015, 48, 6580-6588.	2.2	29
14	Chemistry in India: Unlocking the Potential. Angewandte Chemie - International Edition, 2013, 52, 114-117.	7.2	8
15	Addition of a Silyl Ketene Acetal to $\alpha,\beta$ -Unsaturated Cyclic Anhydrides. Synthetic Communications, 2010, 40, 2353-2363.	1.1	3
16	Synthesis of hydroxy-functionalized star-branched PMMA by anionic polymerization. Polymer Bulletin, 2009, 63, 185-196.	1.7	4
17	Synthesis of Hydroxy-Functional PMMA Macromonomers by Anionic Polymerization. Journal of Macromolecular Science - Pure and Applied Chemistry, 2009, 46, 983-988.	1.2	1
18	Synthesis of amphiphilic poly(methyl methacrylate- <i>b</i> -ethylene oxide) copolymers from monohydroxy telechelic poly(methyl methacrylate) as macroinitiator. Journal of Polymer Science Part A, 2008, 46, 2132-2144.	2.5	12

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19	Synthesis and characterization of poly(higher- $\alpha$ -olefin)s with a nickel( $\alpha$ -diimine)/methylaluminoxane catalyst system: Effect of chain running on the polymer properties. <i>Journal of Polymer Science Part A</i> , 2007, 45, 191-210.	2.5	13
20	Kinetics of hexene-1 polymerization using [(N,N'-diisopropylbenzene)-2,3-(1,8-naphthyl)-1,4-diazabutadiene] dibromonickel/methylaluminoxane catalyst system. <i>Journal of Polymer Science Part A</i> , 2007, 45, 1093-1100.	2.5	9
21	End-functional poly(methyl methacrylate)s via group transfer polymerization. <i>Journal of Polymer Science Part A</i> , 2007, 45, 2514-2531.	2.5	14
22	Copper Catalyzed ATRP of Methyl Methacrylate Using Aliphatic $\alpha$ -Bromo Ketone Initiator. <i>Macromolecular Symposia</i> , 2006, 240, 238-244.	0.4	5
23	Silica-supported bis(imino)pyridyl iron(II) catalyst: nature of the support-catalyst interactions. <i>Polymer International</i> , 2006, 55, 854-861.	1.6	21
24	NaIO <sub>4</sub> /KI/NaCl: a new reagent system for iodination of activated aromatics through in situ generation of iodine monochloride. <i>Tetrahedron Letters</i> , 2006, 47, 4793-4796.	0.7	49
25	IUPAC International Symposium on Ionic Polymerization Goa, India, IP2005, October 23-28, 2005. <i>Macromolecular Chemistry and Physics</i> , 2006, 207, 637-639.	1.1	0
26	Conjugate Addition of a Silyl Ketene Acetal to $\alpha,\beta$ -Unsaturated Lactones. <i>Synthetic Communications</i> , 2006, 36, 885-890.	1.1	5
27	Synthesis of poly(1-hexene)s end-functionalized with phenols. <i>Polymer International</i> , 2005, 54, 1310-1313.	1.6	5
28	A novel tridentate nitrogen donor as ligand in copper catalyzed ATRP of methyl methacrylate. <i>Journal of Polymer Science Part A</i> , 2005, 43, 4996-5008.	2.5	27
29	Enhancing the Reusability of Endoglucanase-Gold Nanoparticle Bioconjugates by Tethering to Polyurethane Microspheres. <i>Biotechnology Progress</i> , 2004, 20, 1840-1846.	1.3	16
30	A Study of Copolymerization of 1-Hexene with 2,5-Norbornadiene Using Metallocene Catalysts. <i>Macromolecular Chemistry and Physics</i> , 2004, 205, 2055-2063.	1.1	8
31	Effect of LiClO <sub>4</sub> and LiCl Additives on the Kinetics of Anionic Polymerization of Methyl Methacrylate in Toluene-Tetrahydrofuran Mixed Solvent. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 1567-1575.	1.1	7
32	The Mukaiyama-Michael addition of a $\alpha,\beta$ -dimethyl substituted silyl ketene acetal to $\alpha,\beta$ -unsaturated ketones using tetra-n-butylammonium bibenzoate as a nucleophilic catalyst. <i>Tetrahedron Letters</i> , 2003, 44, 6047-6049.	0.7	22
33	Optical Anisotropy of Structurally Modified Polycarbonates Having Cyclohexylidene and Methyl Substituents Using the Rotational Isomeric State Method. <i>Macromolecules</i> , 2003, 36, 2944-2955.	2.2	3
34	Direct Assembly of Gold Nanoparticle "Shells" on Polyurethane Microsphere "Cores" and Their Application as Enzyme Immobilization Templates. <i>Chemistry of Materials</i> , 2003, 15, 1944-1949.	3.2	170
35	Conformational Analysis, RIS Models and Single-Chain Properties of Structurally Modified Polycarbonates, 1. Effect of Cyclohexyl and Phenyl Ring Substitutions. <i>Macromolecular Theory and Simulations</i> , 2002, 11, 655.	0.6	5
36	Conformational Analysis, RIS Models and Single-Chain Properties of Structurally Modified Polycarbonates, 2. Effect of Substitutional Rigidity of the Isopropylidene Linkage. <i>Macromolecular Theory and Simulations</i> , 2002, 11, 669.	0.6	1

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37	Preparation of Polyurethane Microspheres via Dispersion Polycondensation Using Poly(1,4-isoprene)-block-poly(ethylene oxide) as Steric Stabilizer. <i>Macromolecular Chemistry and Physics</i> , 2002, 203, 998.	1.1	17
38	Polymerization of ethylene using a SiO <sub>2</sub> -MgCl <sub>2</sub> supported bis(cyclopentadienyl)zirconium(IV) or titanium(IV) dichloride catalyst. <i>Polymer International</i> , 2002, 51, 417-423.	1.6	18
39	Polymeric metal complex catalyzed enantioselective epoxidation of olefins. <i>Journal of Molecular Catalysis A</i> , 2001, 177, 71-87.	4.8	40
40	Compatibilizing effect of poly(styrene)-block-poly(isoprene) copolymers in heterogeneous poly(styrene)/natural rubber blends. <i>Polymer International</i> , 2001, 50, 67-75.	1.6	7
41	Isomerization behavior of aromatic azo chromophores bound to semicrystalline polymer films. <i>Journal of Applied Polymer Science</i> , 2001, 81, 2923-2928.	1.3	17
42	Studies on the Simultaneous Solid-State Polymerization and Exchange Reactions of PET/PEN Oligomer Blends. <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 2267-2274.	1.1	23
43	A magnesium chloride supported bis(cyclopentadienyl)-zirconium(IV) dichloride catalyst for the polymerization of ethylene. <i>Macromolecular Chemistry and Physics</i> , 1999, 200, 323-329.	1.1	16
44	Group transfer polymerization of methyl methacrylate catalyzed by potassium bibenzoate/18-crown-6. <i>Macromolecular Chemistry and Physics</i> , 1998, 199, 463-470.	1.1	2
45	Surface Functionalization of Poly(ethylene) with Succinic Anhydride: Preparation, Modification, and Characterization. <i>Langmuir</i> , 1997, 13, 4142-4149.	1.6	35
46	Magnesium chloride supported bis(cyclopentadienyl)titanium(IV) dichloride-MAO catalyst for ethylene polymerization. <i>Macromolecular Chemistry and Physics</i> , 1997, 198, 495-503.	1.1	29
47	Polymeric catalysts for chemo- and enantioselective epoxidation of olefins: New crosslinked chiral transition metal complexing polymers. <i>Journal of Polymer Science Part A</i> , 1997, 35, 1809-1818.	2.5	57
48	Copolymerization of methyl methacrylate with lauryl methacrylate using group transfer polymerization. <i>Journal of Polymer Science Part A</i> , 1997, 35, 1999-2007.	2.5	25
49	An Unequivocal Approach to Ascertain Asymmetric Induction in the Polymer Main Chain during Enantioselective Copolymerization of 1,2-Disubstituted Olefins. <i>Macromolecules</i> , 1996, 29, 468-470.	2.2	6
50	Study of Polymer-Plasticizer Interaction by <sup>13</sup> C CP/MAS NMR Spectroscopy: Poly(vinyl Tj ETQqO O 0 rgBT /Overlock 10 Tf 50 222 Td	2.2	40
51	Organic Carbonates. <i>Chemical Reviews</i> , 1996, 96, 951-976.	23.0	1,319
52	Sequence ordered copoly(arylester-carbonate)s: synthesis and characterization. <i>Macromolecular Chemistry and Physics</i> , 1995, 196, 715-722.	1.1	2
53	2-Perbromomethyl-2-oxazoline: a novel trifunctional initiator for the ring-opening polymerization of 2-methyl-2-oxazoline. <i>Macromolecular Chemistry and Physics</i> , 1995, 196, 1515-1522.	1.1	5
54	Polymerization of 2-allylnorbornane using Ziegler-Natta catalysts: Homopolymerization. <i>Macromolecular Chemistry and Physics</i> , 1995, 196, 3813-3824.	1.1	0

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55	Homogeneous catalytic hydrogenation of poly(styrene-co-butadiene) using a ruthenium based Wilkinson catalyst. <i>Polymer Bulletin</i> , 1995, 35, 121-128.	1.7	12
56	Enantioselective epoxidation of olefins catalyzed by polymer-bound optically active Mn(III)-salen complex. <i>Tetrahedron: Asymmetry</i> , 1995, 6, 2105-2108.	1.8	109
57	Synthesis and characterization of poly(ester carbonate)s based on bisphenol A and diacid chlorides: a new synthetic approach. <i>Polymer</i> , 1995, 36, 3223-3228.	1.8	3
58	Chiral Polymer Materials: Asymmetric Cyclopolymerization of a Divinyl Functional Monomer Using Protective Group Chemistry. <i>Macromolecules</i> , 1995, 28, 3733-3735.	2.2	7
59	Synthesis and polymerization of N-trimethylsilylacrylamide: A hydrophobic acrylamide. <i>Macromolecular Chemistry and Physics</i> , 1994, 195, 3361-3368.	1.1	4
60	A soluble titanium catalyst for the polymerization of higher $\alpha$ -olefins: Poly(1-hexene) and poly(1-octene) with narrow molecular weight distributions. <i>Macromolecular Rapid Communications</i> , 1994, 15, 601-606.	2.0	5
61	Synthesis, characterization and polymerization of ethylene using a novel soluble magnesium-titanium catalyst. <i>Polymer</i> , 1994, 35, 1287-1290.	1.8	2
62	Polymer-Bound Metal-Free Carbanion as Initiator for Controlled Grafting of Acrylic Polymers. <i>Macromolecules</i> , 1994, 27, 2883-2885.	2.2	4
63	Regioselective Copolymerization of 5-Vinyl-2-norbornene with Ethylene Using Zirconocene-Methylaluminumoxane Catalysts: A Facile Route to Functional Polyolefins. <i>Macromolecules</i> , 1994, 27, 1083-1086.	2.2	81
64	Synthesis and Polymerization of N,O-Bis(trimethylsilyl)acrylamide: A protected Acrylamide. <i>Macromolecules</i> , 1994, 27, 1665-1667.	2.2	8
65	Synthesis of Catalytically Active Polymer-Bound Transition Metal Complexes for Selective Epoxidation of Olefins. <i>Macromolecules</i> , 1994, 27, 1291-1296.	2.2	61
66	Title is missing!. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1993, 14, 173-177.	1.1	4
67	Controlled synthesis of dicarboxyl-terminated poly(methyl acrylate) macromonomers using a new blocked carboxyl functional metal-free carbanionic initiator. <i>Macromolecules</i> , 1992, 25, 2774-2776.	2.2	37
68	Structure and dynamics of starch crosslinked with urea-formaldehyde polymers by carbon-13 CP/MAS NMR spectroscopy. <i>Macromolecules</i> , 1992, 25, 2746-2751.	2.2	11
69	Dialkyl and diaryl carbonates by carbonate interchange reaction with dimethyl carbonate. <i>Industrial &amp; Engineering Chemistry Research</i> , 1992, 31, 1167-1170.	1.8	86
70	Structure of carbofuran in crosslinked starch matrix by $^{13}\text{C}$ n.m.r.: correlation of release and swelling kinetics with the dynamic behaviour of polymer chains. <i>Polymer</i> , 1992, 33, 3611-3615.	1.8	6
71	Oxazoline terminated poly(methyl acrylate) macromonomers: synthesis and characterization. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1991, 12, 435-438.	1.1	15
72	Epoxidation of Alkenes Catalyzed by Iron(III) Schiff Base Chelates. A Monooxygenase Model. <i>Bulletin of the Chemical Society of Japan</i> , 1989, 62, 1325-1327.	2.0	22

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73	A study of the mass spectral fragmentation of N-t-alkylamides. <i>Organic Mass Spectrometry</i> , 1987, 22, 43-44.	1.3	0
74	Neutral, regioselective, copper-catalyzed hydration of some nitriles to amides. <i>Journal of Organic Chemistry</i> , 1982, 47, 4812-4813.	1.7	36