

# Swaminathan Sivaram

## List of Publications by Year in descending order

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74  
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2,899  
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304368

22  
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168136

53  
g-index

75  
all docs

75  
docs citations

75  
times ranked

2977  
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic Carbonates. Chemical Reviews, 1996, 96, 951-976.	23.0	1,319
2	Direct Assembly of Gold Nanoparticle "Shells" on Polyurethane Microsphere "Cores" and Their Application as Enzyme Immobilization Templates. Chemistry of Materials, 2003, 15, 1944-1949.	3.2	170
3	Ultra-high molecular weight polyethylene: Catalysis, structure, properties, processing and applications. Progress in Polymer Science, 2020, 109, 101290.	11.8	132
4	Enantioselective epoxidation of olefins catalyzed by polymer-bound optically active Mn(III)-salen complex. Tetrahedron: Asymmetry, 1995, 6, 2105-2108.	1.8	109
5	Dialkyl and diaryl carbonates by carbonate interchange reaction with dimethyl carbonate. Industrial & Engineering Chemistry Research, 1992, 31, 1167-1170.	1.8	86
6	Regioselective Copolymerization of 5-Vinyl-2-norbornene with Ethylene Using Zirconocene-Methylaluminoxane Catalysts: A Facile Route to Functional Polyolefins. Macromolecules, 1994, 27, 1083-1086.	2.2	81
7	Synthesis of Catalytically Active Polymer-Bound Transition Metal Complexes for Selective Epoxidation of Olefins. Macromolecules, 1994, 27, 1291-1296.	2.2	61
8	Polymeric catalysts for chemo- and enantioselective epoxidation of olefins: New crosslinked chiral transition metal complexing polymers. Journal of Polymer Science Part A, 1997, 35, 1809-1818.	2.5	57
9	NaIO <sub>4</sub> /KI/NaCl: a new reagent system for iodination of activated aromatics through in situ generation of iodine monochloride. Tetrahedron Letters, 2006, 47, 4793-4796.	0.7	49
10	Study of Polymer-Plasticizer Interaction by <sup>13</sup> C CP/MAS NMR Spectroscopy: Poly(vinyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td	2.2	40
11	Polymeric metal complex catalyzed enantioselective epoxidation of olefins. Journal of Molecular Catalysis A, 2001, 177, 71-87.	4.8	40
12	Controlled synthesis of dicarboxyl-terminated poly(methyl acrylate) macromonomers using a new blocked carboxyl functional metal-free carbanionic initiator. Macromolecules, 1992, 25, 2774-2776.	2.2	37
13	Neutral, regioselective, copper-catalyzed hydration of some nitriles to amides. Journal of Organic Chemistry, 1982, 47, 4812-4813.	1.7	36
14	Thermally conductive thin films derived from defect free graphene-natural rubber latex nanocomposite: Preparation and properties. Carbon, 2017, 119, 527-534.	5.4	36
15	Surface Functionalization of Poly(ethylene) with Succinic Anhydride: Preparation, Modification, and Characterization. Langmuir, 1997, 13, 4142-4149.	1.6	35
16	Magnesium chloride supported bis(cyclopentadienyl)titanium(IV) dichloride-MAO catalyst for ethylene polymerization. Macromolecular Chemistry and Physics, 1997, 198, 495-503.	1.1	29
17	Star Telechelic Poly(L-lactide) Ionomers. Macromolecules, 2015, 48, 6580-6588.	2.2	29
18	A novel tridentate nitrogen donor as ligand in copper catalyzed ATRP of methyl methacrylate. Journal of Polymer Science Part A, 2005, 43, 4996-5008.	2.5	27

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19	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
20	Facile, environmentally benign and scalable approach to produce pristine few layers graphene suitable for preparing biocompatible polymer nanocomposites. <i>Scientific Reports</i> , 2018, 8, 11228.	1.6	24
21	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
22	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
23	The Mukaiyama-Michael addition of a $\beta$ -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
24	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
25	Lithium Speciation in the LiPF <sub>6</sub> /PC Electrolyte Studied by Two-Dimensional Heteronuclear Overhauser Enhancement and Pulse-Field Gradient Diffusometry NMR. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9661-9672.	1.5	20
26	Poly(glycerol sebacate)-Based Polyester-Polyether Copolymers and Their Semi-Interpenetrated Networks with Thermoplastic Poly(ester-ether) Elastomers: Preparation and Properties. <i>ACS Omega</i> , 2018, 3, 18714-18723.	1.6	19
27	Separator Membranes for Lithium-Sulfur Batteries: Design Principles, Structure, and Performance. <i>Energy Technology</i> , 2019, 7, 1800819.	1.8	19
28	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
29	Synthesis and characterization of well-defined random and block copolymers of $\epsilon$ -caprolactone with $\gamma$ -butyrolactide as an additive for toughening polylactide: Influence of the molecular architecture. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	18
30	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
31	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
32	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
33	Enhancing the Reusability of Endoglucanase-Gold Nanoparticle Bioconjugates by Tethering to Polyurethane Microspheres. <i>Biotechnology Progress</i> , 2004, 20, 1840-1846.	1.3	16
34	Oxazoline terminated poly(methyl acrylate) macromonomers: synthesis and characterization. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1991, 12, 435-438.	1.1	15
35	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
36	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

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37	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
38	Synthesis of amphiphilic poly(methyl methacrylate- <i>b</i> -ethylene oxide) copolymers from monohydroxy telechelic poly(methyl methacrylate) as macroinitiator. <i>Journal of Polymer Science Part A</i> , 2008, 46, 2132-2144.	2.5	12
39	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
40	Toughening Poly( <i>l</i> -lactide) Blends: Effectiveness of Sequence-Controlled Six-Arm Star-Branched Block Copolymers of Poly( <i>l</i> -lactide) and Poly( $\mu$ -caprolactone). <i>ACS Omega</i> , 2022, 7, 9118-9129.	1.6	10
41	Kinetics of hexene-1 polymerization using [(N,N <sup>2</sup> -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
42	Synthesis and Polymerization of N,O-Bis(trimethylsilyl)acrylamide: A protected Acrylamide. <i>Macromolecules</i> , 1994, 27, 1665-1667.	2.2	8
43	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
44	Chemistry in India: Unlocking the Potential. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 114-117.	7.2	8
45	Chiral Polymer Materials: Asymmetric Cyclopolymerization of a Divinyl Functional Monomer Using Protective Group Chemistry. <i>Macromolecules</i> , 1995, 28, 3733-3735.	2.2	7
46	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
47	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
48	Soluble polybenzimidazoles with intrinsic porosity: Synthesis, structure, properties and processability. <i>Journal of Polymer Science Part A</i> , 2018, 56, 1046-1057.	2.5	7
49	Structure of carbofuran in crosslinked starch matrix by 13C 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
50	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
51	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
52	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
53	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
54	Synthesis of poly(1-hexene)s end-functionalized with phenols. <i>Polymer International</i> , 2005, 54, 1310-1313.	1.6	5

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55	Copper Catalyzed ATRP of Methyl Methacrylate Using Aliphatic $\alpha$ -Bromo Ketone Initiator. <i>Macromolecular Symposia</i> , 2006, 240, 238-244.	0.4	5
56	Conjugate Addition of a Silyl Ketene Acetal to $\alpha,\beta$ -Unsaturated Lactones. <i>Synthetic Communications</i> , 2006, 36, 885-890.	1.1	5
57	Title is missing!. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1993, 14, 173-177.	1.1	4
58	Synthesis and polymerization of N-trimethylsilylacrylamide: A hydrophobic acrylamide. <i>Macromolecular Chemistry and Physics</i> , 1994, 195, 3361-3368.	1.1	4
59	Polymer-Bound Metal-Free Carbanion as Initiator for Controlled Grafting of Acrylic Polymers. <i>Macromolecules</i> , 1994, 27, 2883-2885.	2.2	4
60	Synthesis of hydroxy-functionalized star-branched PMMA by anionic polymerization. <i>Polymer Bulletin</i> , 2009, 63, 185-196.	1.7	4
61	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
62	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
63	Addition of a Silyl Ketene Acetal to $\alpha,\beta$ -Unsaturated Cyclic Anhydrides. <i>Synthetic Communications</i> , 2010, 40, 2353-2363.	1.1	3
64	Synthesis, characterization and polymerization of ethylene using a novel soluble magnesium-titanium catalyst. <i>Polymer</i> , 1994, 35, 1287-1290.	1.8	2
65	Sequence ordered copoly(arylester-carbonate)s: synthesis and characterization. <i>Macromolecular Chemistry and Physics</i> , 1995, 196, 715-722.	1.1	2
66	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
67	In-situ interfacial compatibilization via edge-sulfurated few layer graphene during the formation of crosslinked graphene-rubber nanocomposites. <i>Scientific Reports</i> , 2022, 12, 4013.	1.6	2
68	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
69	Synthesis of Hydroxy-Functional PMMA Macromonomers by Anionic Polymerization. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2009, 46, 983-988.	1.2	1
70	Understanding structure and composition of thermally rearranged polymers based on small molecule chemistry: a perspective. <i>Polymer International</i> , 2019, 68, 1649-1661.	1.6	1
71	Seeking Order in Chaos. <i>Resonance</i> , 2019, 24, 11-28.	0.2	1
72	A study of the mass spectral fragmentation of N-t-alkylamides. <i>Organic Mass Spectrometry</i> , 1987, 22, 43-44.	1.3	0

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73	Polymerization of 2-allylnorbornane using Ziegler-Natta catalysts: Homopolymerization. <i>Macromolecular Chemistry and Physics</i> , 1995, 196, 3813-3824.	1.1	0
74	IUPAC International Symposium on Ionic Polymerization Goa, India, IP2005, October 23â€“28, 2005. <i>Macromolecular Chemistry and Physics</i> , 2006, 207, 637-639.	1.1	0