David E Bergbreiter

List of Publications by Year
in descending order

213 papers	11,304 citations	31976 53 h-index	33894 99 g-index
232 all docs	232 docs citations	232 times ranked	8456 citing authors

#	Article	IF	Citations
1	Applications of poly(Î±-olefin)s as solvents in organometallic chemistry. Journal of Organometallic Chemistry, 2022, 962, 122261.	1.8	3
2	Fully recyclable BrÃ¸nsted acid catalyst systems. Green Chemistry, 2021, 23, 1266-1273.	9.0	13
3	Recyclable Polyisobutyleneâ€Bound HMPA as an Organocatalyst in Recyclable Poly(Î±â€olefin) Solvents. ChemCatChem, 2020, 12, 6050-6058.	3.7	5
4	Organocatalytic Michael Addition as a Method for Polyisobutylene Chainâ€End Functionalization. Macromolecular Rapid Communications, 2020, 41, 2000382.	3.9	4
5	Minimizing solvent waste in catalytic reactions in highly recyclable hydrocarbon solvents. Organic and Biomolecular Chemistry, 2020, 18, 4248-4256.	2.8	7
6	Solubilization of silica nanoparticles in alkanes and poly(Î±â€olefin)s by functionalized polyisobutylene oligomers. Journal of Polymer Science, 2020, 58, 1144-1152.	3.8	1
7	Use of Margarine for the Successful Removal of Polyisobutylene in an Anhinga (Anhinga anhinga) and Great Blue Heron (Ardea herodias). , 2020, 34, 70.		1
8	110th Anniversary: Reversible Solubilization of Polar Polymers and Polymeric Catalysts in Nonpolar Solvents. Industrial & Engineering Chemistry Research, 2019, 58, 14579-14587.	3.7	3
9	Enthalpy-Driven Polyisobutylene Depolymerization. Macromolecules, 2019, 52, 3042-3048.	4.8	10
10	Functionalized Polyisobutylene and Liquid/Liquid Separations as a Method for Scavenging Transition Metals from Homogeneously Catalyzed Reactions. Applied Sciences (Switzerland), 2019, 9, 120.	2.5	4
11	Sustainable Hydrocarbon Oligomer Solvent Systems for Sequestration of Trace Organics from Water. ChemSusChem, 2019, 12, 416-419.	6.8	11
12	Highly active, separable and recyclable bipyridine iridium catalysts for Câ€“H borylation reactions. Catalysis Science and Technology, 2018, 8, 124-127.	4.1	11
13	Safer solvents for reactive organometallic reagents. Tetrahedron Letters, 2018, 59, 3926-3929.	1.4	6
14	S_N2 Reactions in Hydrocarbon Solvents Using Ammonium-Terminated Polyisobutylene Oligomers as Phase-Solubilizing Agents and Catalysts. Journal of Organic Chemistry, 2018, 83, 11101-11107.	3.2	10
15	Block copolymers derived from polyisobutylene oligomers. Journal of Polymer Science Part A, 2018, 56, 1860-1867.	2.3	5
16	Polyisobutylene Oligomers as Tools for Iron Oxide Nanoparticle Solubilization. Macromolecules, 2017, 50, 1494-1502.	4.8	14
17	Using ¹H NMR Spectra of Polymers and Polymer Products To Illustrate Concepts in Organic Chemistry. Journal of Chemical Education, 2017, 94, 1668-1673.	2.3	12
18	Supported Catalysts Useful in Ring-Closing Metathesis, Cross Metathesis, and Ring-Opening Metathesis Polymerization. Polymers, 2016, 8, 140.	4.5	29

#	Article	IF	Citations
19	Recyclable soluble polyisobutylene-bound oxidizing agents. Tetrahedron Letters, 2016, 57, 3272-3276.	1.4	5
20	Soluble polymer supports for homogeneous catalysis in flow reactions. Pure and Applied Chemistry, 2016, 88, 953-960.	1.9	5
21	Controlled Ring-Opening Metathesis Polymerization with Polyisobutylene-Bound Pyridine-Ligated Ru(II) Catalysts. ACS Omega, 2016, 1, 714-721.	3.5	14
22	Alternatives for Conventional Alkane Solvents. Journal of the American Chemical Society, 2016, 138, 14650-14657.	13.7	22
23	Highly organic phase soluble polyisobutylene-bound cobalt phthalocyanines as recyclable catalysts for nitroarene reduction. Catalysis Communications, 2016, 77, 89-93.	3.3	27
24	Recyclable polyisobutylene (PIB)-bound organic photoredox catalyst catalyzed polymerization reactions. Polymer Chemistry, 2016, 7, 2161-2165.	3.9	17
25	Hydrocarbon Soluble Recyclable Silylation Reagents and Purification Auxiliaries. Organic Letters, 2016, 18, 1214-1216.	4.6	6
26	Visible light mediated photoredox reactions catalyzed by recyclable PIB-bound ruthenium photoredox catalysts. Catalysis Science and Technology, 2016, 6, 215-221.	4.1	17
27	Soluble polymer-supported hindered phosphine ligands for palladium-catalyzed aryl amination. Catalysis Science and Technology, 2015, 5, 2378-2383.	4.1	5
28	Polyethylene as a Cosolvent and Catalyst Support in Ring-Opening Metathesis Polymerization. Macromolecules, 2015, 48, 5511-5516.	4.8	17
29	Polyisobutylene oligomer-bound polyoxometalates as efficient and recyclable catalysts for biphasic oxidations with hydrogen peroxide. Catalysis Science and Technology, 2015, 5, 818-821.	4.1	32
30	Designing Phase Selectively Soluble Polymer-Supports for Dimethylaminopyridine and Phosphine-Ligated Pd(0) Catalysts. Topics in Catalysis, 2014, 57, 1438-1444.	2.8	7
31	Soluble Polymers as Tools in Catalysis. ACS Macro Letters, 2014, 3, 260-265.	4.8	60
32	Using Soluble Polymers to Enforce Catalystâ€Phaseâ€Selective Solubility and as Antileaching Agents to Facilitate Homogeneous Catalysis. Angewandte Chemie - International Edition, 2014, 53, 8084-8087.	13.8	16
33	Polyolefin soluble polyisobutylene oligomer-bound metallophthalocyanine and azo dye additives. Journal of Polymer Science Part A, 2014, 52, 545-551.	2.3	12
34	Ring-opening metathesis polymerization using polyisobutylene supported Grubbs second-generation catalyst. RSC Advances, 2014, 4, 43766-43771.	3.6	19
35	Poly(4-dodecylstyrene) as a phase-selectively soluble polymer support in homogeneous catalysis. Polymer Chemistry, 2013, 4, 1617-1624.	3.9	17
36	Recycling Pd colloidal catalysts using polymeric phosphine ligands and polyethylene as a solvent. Green Chemistry, 2013, 15, 1361.	9.0	14

#	Article	IF	Citations
37	Recoverable Reusable Polyisobutylene (PIB)-Bound Ruthenium Bipyridine (Ru(PIB-bpy)₃Cl₂) Photoredox Polymerization Catalysts. ACS Macro Letters, 2013, 2, 571-574.	4.8	56
38	Using Polymer Synthesis, Reactions and Properties as Examples of Concepts in Beginning Organic Chemistry. ACS Symposium Series, 2013, , 35-52.	0.5	0
39	Reversible Changes in Solution pH Resulting from Changes in Thermoresponsive Polymer Solubility. Journal of the American Chemical Society, 2012, 134, 7378-7383.	13.7	65
40	Solute- and Temperature-Responsive â€œSmartâ€•Grafts and Supported Membranes Formed by Covalent Layer-by-Layer Assembly. Langmuir, 2012, 28, 5237-5242.	3.5	11
41	Protective encapsulation of acidâ€sensitive catalysts using polyethylene ligands. Journal of Polymer Science Part A, 2012, 50, 4840-4846.	2.3	7
42	Soluble polymer-supported organocatalysts. Pure and Applied Chemistry, 2012, 85, 493-509.	1.9	13
43	Polyethylene as a Nonvolatile Solid Cosolvent Phase for Catalyst Separation and Recovery. Journal of the American Chemical Society, 2012, 134, 14714-14717.	13.7	35
44	Polymer Inverse Temperature-Dependent Solubility: A Visual Demonstration of the Importance of TÎ”S in the Gibbs Equation. Journal of Chemical Education, 2012, 89, 675-677.	2.3	4
45	A phaseâ€separable secondâ€generation hoveydaâ€grubbs catalyst for ringâ€opening metathesis polymerization. Journal of Polymer Science Part A, 2012, 50, 3954-3959.	2.3	25
46	Studies of Ligand Exchange in N-Heterocyclic Carbene Silver(I) Complexes. Organometallics, 2012, 31, 4063-4071.	2.3	88
47	Polyisobutylene-Supported Phosphines as Recyclable and Regenerable Catalysts and Reagents. Journal of Organic Chemistry, 2011, 76, 6912-6917.	3.2	32
48	Thermomorphic Polyethylene-Supported Olefin Metathesis Catalysts. Organic Letters, 2011, 13, 3904-3907.	4.6	50
49	Polyolefin-Supported Recoverable/Reusable Cr(III)-Salen Catalysts. Journal of Organic Chemistry, 2011, 76, 523-533.	3.2	32
50	Syntheses of terminally functionalized polyisobutylene derivatives using diazonium salts. Journal of Polymer Science Part A, 2011, 49, 1772-1783.	2.3	15
51	Polyisobutylene-supported N-heterocyclic carbene palladium catalysts. Journal of Organometallic Chemistry, 2011, 696, 1272-1279.	1.8	39
52	Polyisobutylene Phaseâ€Anchored Ruthenium Complexes. Macromolecular Symposia, 2010, 297, 25-32.	0.7	8
53	Redox-controlled â€˜smartâ€™ polyacrylamide solubility. Polymer Chemistry, 2010, 1, 631.	3.9	35
54	Variable-Temperature NMR Studies of Soluble Polymer-Supported Phosphineâ€“Silver Complexes. Journal of Organic Chemistry, 2010, 75, 873-878.	3.2	28

#	Article	IF	Citations
55	Parallel Effects of Cations on PNIPAM Graft Wettability and PNIPAM Solubility. ACS Applied Materials & Interfaces, 2010, 2, 452-458.	8.0	46
56	Synthesis of aryl-substituted polyisobutylenes as precursors for ligands for greener, phase-selectively soluble catalysts. Pure and Applied Chemistry, 2009, 81, 1981-1990.	1.9	10
57	Comparison of Covalently and Noncovalently Functionalized Carbon Nanotubes in Epoxy. Macromolecular Rapid Communications, 2009, 30, 627-632.	3.9	69
58	Reactions assayed by magnets. Nature, 2009, 457, 805-805.	27.8	1
59	Covalent layer-by-layer assemblyâ€"an effective, forgiving way to construct functional robust ultrathin films and nanocomposites. Soft Matter, 2009, 5, 23-28.	2.7	114
60	Using Soluble Polymer Supports To Facilitate Homogeneous Catalysis. Chemical Reviews, 2009, 109, 530-582.	47.7	346
61	Designing Surfaces with Wettability That Varies in Response to Solute Identity and Concentration. Langmuir, 2009, 25, 26-28.	3.5	61
62	Polyisobutylene-Anchored N-Heterocyclic Carbene Ligands. Organic Letters, 2009, 11, 665-667.	4.6	65
63	Recyclable polyisobutylene-supported pyridyl N-oxide allylation catalysts. Tetrahedron Letters, 2008, 49, 5608-5610.	1.4	16
64	Thermodynamic cloud point assays. Journal of Polymer Science Part A, 2008, 46, 186-193.	2.3	19
65	Superhydrophobic Surfaces Formed Using Layer-by-Layer Self-Assembly with Aminated Multiwall Carbon Nanotubes. Langmuir, 2008, 24, 4245-4253.	3.5	103
66	A phase separable polycarbonate polymerization catalyst. Chemical Communications, 2008, , 975-977.	4.1	41
67	Self-Separating Homogeneous Copper (I) Catalysts. Journal of the American Chemical Society, 2007, 129, 10666-10667.	13.7	71
68	A Combinatorial Approach to Studying the Effects ofN-Alkyl Groups on Poly(N-alkyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 Td (andN,	3.3	10
69	Heptane-Soluble Ring-Closing Metathesis Catalysts. Organic Letters, 2007, 9, 3259-3261.	4.6	44
70	Effects of Hofmeister Anions on the LCST of PNIPAM as a Function of Molecular Weightâ€. Journal of Physical Chemistry C, 2007, 111, 8916-8924.	3.1	335
71	â€œClickâ€•Based Covalent Layer-by-Layer Assembly on Polyethylene Using Water-Soluble Polymeric Reagents. Macromolecules, 2007, 40, 5337-5343.	4.8	75
72	Soluble polyisobutylene-supported reusable catalysts for olefin cyclopropanation. Tetrahedron Letters, 2007, 48, 4499-4503.	1.4	32

#	Article	IF	Citations
73	Liquid/liquid separation of polysiloxane-supported catalysts. Chemical Communications, 2006, , 1715.	4.1	22
74	Catalysis with palladium colloids supported in poly(acrylic acid)-grafted polyethylene and polystyrene. Canadian Journal of Chemistry, 2006, 84, 1343-1350.	1.1	7
75	Conductive Thin Films on Functionalized Polyethylene Particles. Chemistry of Materials, 2006, 18, 2997-3004.	6.7	19
76	Effects of end group polarity and molecular weight on the lower critical solution temperature of poly(N-isopropylacrylamide). Journal of Polymer Science Part A, 2006, 44, 1492-1501.	2.3	281
77	Synthesis, Characterization, and Utility of Thermoresponsive Natural/Unnatural Product Macroligands for Affinity Chromatography. Organic Letters, 2006, 8, 5247-5250.	4.6	11
78	Synthesis and characterization of electronically varied XCX palladacycles with functional arene groups. Inorganica Chimica Acta, 2006, 359, 1912-1922.	2.4	17
79	Liquid/Liquid Biphasic Recovery/Reuse of Soluble Polymer- Supported Catalysts. Advanced Synthesis and Catalysis, 2006, 348, 1352-1366.	4.3	102
80	Applications of Catalysts on Soluble Supports. ChemInform, 2006, 37, no.	0.0	0
81	Novel Densely Alkylated Hydroxyl-Functional Polyvinylpyrrolidone Showing Phase-Selective Solubility. Macromolecular Chemistry and Physics, 2006, 207, 1062-1069.	2.2	3
82	Strategies for protecting and manipulating triazine derivatives. Tetrahedron Letters, 2005, 46, 2005-2008.	1.4	34
83	Polyisobutylene supportsâ€"a non-polar hydrocarbon analog of PEG supports. Tetrahedron, 2005, 61, 12081-12092.	1.9	53
84	Mechanistic Studies of SCS-Pd Complexes Used in Heck Catalysis. Advanced Synthesis and Catalysis, 2005, 347, 172-184.	4.3	146
85	Strategies for Protecting and Manipulating Triazine Derivatives.. ChemInform, 2005, 36, no.	0.0	0
86	New synthetic methods for the formation of basic, polyvalent, hyperbranched grafts. Journal of Polymer Science Part A, 2005, 43, 4654-4665.	2.3	12
87	New Syntheses of Hyperbranched Polyamine Grafts. Macromolecules, 2005, 38, 47-52.	4.8	13
88	Specific Ion Effects on the Water Solubility of Macromolecules:Â PNIPAM and the Hofmeister Series. Journal of the American Chemical Society, 2005, 127, 14505-14510.	13.7	1,188
89	Applications of Catalysts on Soluble Supports. Topics in Current Chemistry, 2004, 242, 337-337.	4.0	0
90	Latent solid-phase extraction with thermoresponsive soluble polymers. Journal of Polymer Science Part A, 2004, 42, 6309-6317.	2.3	12

#	Article	IF	Citations
91	Microwave promoted Heck reactions using an oligo(ethylene glycol)-bound SCS palladacycle under thermomorphic conditions. Green Chemistry, 2004, 6, 280.	9.0	63
92	Terminally functionalized polyisobutylene oligomers as soluble supports in catalysisElectronic supplementary information (ESI) available: experimental details for the synthesis and use of the PIB oligomers and catalysts. See http://www.rsc.org/suppdata/cc/b3/b312368e/. Chemical Communications, 2004, , 42.	4.1	49
93	Applications of Catalysts on Soluble Supports. Topics in Current Chemistry, 2004, 242, 113-176.	4.0	36
94	New Routes to Hyperbranched Poly(acrylic acid) Surface Grafts on Polyethylene Films and Powders. Macromolecules, 2004, 37, 8686-8691.	4.8	24
95	High-Throughput Studies of the Effects of Polymer Structure and Solution Components on the Phase Separation of Thermoresponsive Polymers. Macromolecules, 2004, 37, 1031-1036.	4.8	82
96	Designing Polymers for Biphasic Liquid/Liquid Separations after Homogeneous Reactions. Organic Process Research and Development, 2004, 8, 461-468.	2.7	28
97	Using Soluble Polymers to Recover Catalysts and Ligands. ChemInform, 2003, 34, no.	0.0	0
98	Poly(4-tert-butylstyrene) as a Soluble Polymer Support in Homogeneous Catalysis. Organic Letters, 2003, 5, 2445-2447.	4.6	71
99	Phase-Selective Solubility of Poly(N-alkylacrylamide)s. Journal of the American Chemical Society, 2003, 125, 8244-8249.	13.7	59
100	Measuring LCSTs by Novel Temperature Gradient Methods:Â Evidence for Intermolecular Interactions in Mixed Polymer Solutions. Journal of the American Chemical Society, 2003, 125, 2850-2851.	13.7	65
101	Using Soluble Polymers in Latent Biphasic Systems. Journal of the American Chemical Society, 2003, 125, 6254-6260.	13.7	64
102	Soluble polymeric ligands for metal complexation and catalyst recovery. Macromolecular Symposia, 2003, 204, 113-140.	0.7	6
103	Dye-Labeled PNIPAM [Poly(N-isopropylacrylamide)]-Supported Acylation Catalysts. Chemical Industries, 2002, , .	0.1	0
104	Soluble Polymer-Supported Catalysts Containing Azo Dyes. Organic Letters, 2002, 4, 737-740.	4.6	79
105	Functionalized hyperbranched grafts on polyethylene powder for support of Pd(0)-phosphine catalyst. Chemical Communications, 2002, , 2158-2159.	4.1	13
106	Using Soluble Polymers To Recover Catalysts and Ligands. Chemical Reviews, 2002, 102, 3345-3384.	47.7	536
107	Nonpolar Polymers for Metal Sequestration and Ligand and Catalyst Recovery in Thermomorphic Systems. Journal of the American Chemical Society, 2001, 123, 11105-11106.	13.7	107
108	Surface Functionalized Polypropylene:Â Synthesis, Characterization, and Adhesion Properties. Macromolecules, 2001, 34, 7672-7679.	4.8	102

#	Article	IF	Citations
109	Polyvalent Hydrogen-Bonding Functionalization of Ultrathin Hyperbranched Films on Polyethylene and Gold. Macromolecules, 2001, 34, 3018-3023.	4.8	45
110	New methods for recovery of soluble polymer-bound reagents. Reactive and Functional Polymers, 2001, 49, 249-254.	4.1	12
111	Polythiophene formation within hyperbranched grafts on polyethylene films. Journal of Polymer Science Part A, 2001, 39, 4119-4128.	2.3	15
112	Using polymers to control substrate, ligand, or catalyst solubility. Journal of Polymer Science Part A, 2001, 39, 2351-2363.	2.3	27
113	Molecular engineering of organic reagents and catalysts using soluble polymers. Progress in Polymer Science, 2001, 26, 2015-2081.	24.7	47
114	Sequestration of Trace Metals Using Water-Soluble and Fluorous Phase-Soluble Polymers. Angewandte Chemie - International Edition, 2000, 39, 1039-1042.	13.8	40
115	Chemical modification of hyperbranched ultrathin films on gold and polyethylene. Journal of Polymer Science Part A, 2000, 38, 3944-3953.	2.3	29
116	Polymer-Facilitated Biphasic Catalysis. ACS Symposium Series, 2000, , 182-193.	0.5	2
117	Palladium-Catalyzed Câ^'C Coupling under Thermomorphic Conditions. Journal of the American Chemical Society, 2000, 122, 9058-9064.	13.7	280
118	Functionalized Hyperbranched Polyethylene Powder Supports. Organic Letters, 2000, 2, 2853-2855.	4.6	28
119	Fluoroacrylate-Bound Fluorous-Phase Soluble Hydrogenation Catalysts. Organic Letters, 2000, 2, 393-395.	4.6	53
120	Fluorous-Phase Soluble Polymeric Supports. Combinatorial Chemistry and High Throughput Screening, 2000, 3, 153-164.	1.1	13
121	Chemically Grafted Polymeric Filters for Chemical Sensors:Â Hyperbranched Poly(acrylic acid) Films Incorporating Î²-Cyclodextrin Receptors and Amine-Functionalized Filter Layers. Langmuir, 1999, 15, 885-890.	3.5	54
122	Alternative polymer supports for organic chemistry. , 1999, 19, 439-450.		47
123	Self-Assembled, Sub-Micrometer Diameter Semipermeable Capsules. Angewandte Chemie - International Edition, 1999, 38, 2870-2872.	13.8	127
124	Preparation of Highly Impermeable Hyperbranched Polymer Thin-Film Coatings Using Dendrimers First as Building Blocks and Then as in Situ Thermosetting Agents. Journal of the American Chemical Society, 1999, 121, 923-930.	13.7	98
125	Electrostatic Immobilization of Glucose Oxidase in a Weak Acid, Polyelectrolyte Hyperbranched Ultrathin Film on Gold:Â Fabrication, Characterization, and Enzymatic Activity. Analytical Chemistry, 1999, 71, 3133-3139.	6.5	122
126	Tridentate SCS Palladium(II) Complexes:â€‰ New, Highly Stable, Recyclable Catalysts for the Heck Reaction. Journal of the American Chemical Society, 1999, 121, 9531-9538.	13.7	277

#	Article	IF	Citations
127	Hyperbranched Grafting on Oxidized Polyethylene Surfaces. Macromolecules, 1999, 32, 4993-4998.	4.8	69
128	Synthetic Design of "Responsive" Surfaces. ACS Symposium Series, 1999, , 301-310.	0.5	2
129	MULTILAYER DENDRIMER-POLY(ANHYDRIDE) NANOCOMPOSITE FILMS. , 1999, , 63-71.		0
130	Pd-Catalyzed synthesis of a tethered soluble polymeric phosphine ligand. Tetrahedron Letters, 1998, 39, 8799-8802.	1.4	22
131	The use of soluble polymers to effect homogeneous catalyst separation and reuse. Catalysis Today, 1998, 42, 389-397.	4.4	96
132	Meisenheimer Rearrangement of AllylN-Oxides as a Route to Initiators for Nitroxide-Mediated â€œLivingâ€• Free Radical Polymerizations. Macromolecules, 1998, 31, 6380-6382.	4.8	17
133	Aqueous Solvation and Functionalization of Weak-Acid Polyelectrolyte Thin Films. Langmuir, 1998, 14, 4232-4237.	3.5	43
134	Poly(N-isopropylacrylamide) Soluble Polymer Supports in Catalysis and Synthesis. Macromolecules, 1998, 31, 6053-6062.	4.8	327
135	Polypropylene Surface Modification by Entrapment Functionalization. Macromolecules, 1998, 31, 3417-3423.	4.8	37
136	Thermomorphic Rhodium(I) and Palladium(0) Catalysts. Journal of the American Chemical Society, 1998, 120, 4250-4251.	13.7	113
137	Simultaneous Deprotection and Purification of BOC-amines Based on Ionic Resin Capture. Journal of Organic Chemistry, 1998, 63, 3471-3473.	3.2	61
138	NEW STRATEGIES IN CATALYST DEVELOPMENT, OPTIMIZATION AND RECYCLING. Critical Reviews in Analytical Chemistry, 1998, 28, 347-347.	3.5	1
139	Effect of pH, Fluorination, and Number of Layers on the Inhibition of Electrochemical Reactions by Grafted, Hyperbranched Poly(acrylic acid) Films. Israel Journal of Chemistry, 1997, 37, 277-286.	2.3	17
140	A soluble fluorous phase polymer support. Chemical Communications, 1997, , 1531-1532.	4.1	19
141	Synthesis and Characterization of Surface-Grafted, Hyperbranched Polymer Films Containing Fluorescent, Hydrophobic, Ion-Binding, Biocompatible, and Electroactive Groups. Langmuir, 1997, 13, 770-778.	3.5	138
142	Temperature-Responsive Surface-Functionalized Polyethylene Films. Chemistry of Materials, 1997, 9, 472-477.	6.7	15
143	Applications of Polymeric Smart Materials to Environmental Problems. Environmental Health Perspectives, 1997, 105, 55.	6.0	5
144	pH-Switchable, Ultrathin Permselective Membranes Prepared from Multilayer Polymer Composites. Journal of the American Chemical Society, 1997, 119, 8720-8721.	13.7	145

#	Article	IF	Citations
145	Inhibition of Electrochemical Reactions at Gold Surfaces by Grafted, Highly Fluorinated, Hyperbranched Polymer Films. Langmuir, 1997, 13, 1388-1391.	3.5	62
146	Amphoteric, water-soluble polymer-bound hydrogenation catalysts. Tetrahedron Letters, 1997, 38, 3703-3706.	1.4	49
147	Water-soluble polymer-bound, recoverable palladium(0)-phosphine catalysts. Tetrahedron Letters, 1997, 38, 7843-7846.	1.4	88
148	Multilayer Dendrimerâ€“Polyanhydride Composite Films on Glass, Silicon, and Gold Wafers. Angewandte Chemie International Edition in English, 1997, 36, 2114-2116.	4.4	93
149	Mehrschichtige Dendrimerâ€Polyanhydridâ€Verbundfilme auf Glasâ€, Siliciumâ€•und Goldwafern. Angewandte Chemie, 1997, 109, 2204-2207.	2.0	6
150	Thermoresponsive Polymer-Bound Substrates. Journal of the American Chemical Society, 1996, 118, 6092-6093.	13.7	73
151	Synthesis of Hyperbranched, Hydrophilic Fluorinated Surface Grafts. Langmuir, 1996, 12, 5519-5521.	3.5	49
152	Preparation of Hyperbranched Polymer Films Grafted on Self-Assembled Monolayers. Journal of the American Chemical Society, 1996, 118, 3773-3774.	13.7	140
153	Macromolecular ligands for homogeneous catalysts. Macromolecular Symposia, 1996, 105, 9-16.	0.7	8
154	Surface selective modification of poly(vinyl chloride) film with lithiated Î±,Ï‰-diaminopoly(alkene oxide)s. Polymer, 1996, 37, 2345-2352.	3.8	14
155	Polymer ligands that can regulate reaction temperature in ?smart? catalysts. Advanced Materials, 1995, 7, 69-71.	21.0	45
156	Solvent effects on ester alcoholysis at functionalized polyethylene surfaces. Journal of Polymer Science Part A, 1995, 33, 1209-1217.	2.3	4
157	Studies of Two-Dimensional Morphology at Surface-Functionalized Polyethylene Films. Macromolecules, 1995, 28, 8302-8307.	4.8	6
158	Modification, Reconstruction, and Reorganization of Sulfonated Polyethylene Surfaces. Industrial & Engineering Chemistry Research, 1995, 34, 2733-2739.	3.7	3
159	pH and Solvent Responsive Reactivity of Surface-Grafted Polyethylene Films. Journal of the American Chemical Society, 1995, 117, 10589-10590.	13.7	20
160	Modification of substrate reactivity using soluble polymeric supports. Tetrahedron Letters, 1995, 36, 4757-4760.	1.4	5
161	Polyethylene surface chemistry. Progress in Polymer Science, 1994, 19, 529-560.	24.7	115
162	Heterogeneous Grafting Chemistry Using Residual Unsaturation as a Graft Site Precursor. Macromolecules, 1994, 27, 1597-1602.	4.8	12

#	Article	IF	Citations
163	Complexation of europium using polyethylene carboxylic acid. Reactive & Functional Polymers, 1993, 20, 99-109.	0.8	8
164	Grafting of C60 onto polyethylene surfaces. Journal of the Chemical Society Chemical Communications, 1993, , 645.	2.0	33
165	Separation of enantiomers as differently sized pseudoenantiomeric salts. Journal of the Chemical Society Chemical Communications, 1993, , 596.	2.0	3
166	Microwave-induced chemistry at functionalized polyethylene surfaces. Chemistry of Materials, 1993, 5, 257-259.	6.7	4
167	Smart ligands that regulate homogeneously catalyzed reactions. Journal of the American Chemical Society, 1993, 115, 9295-9296.	13.7	148
168	Surface graft polymerization on polyethylene using macroinitiators. Macromolecules, 1993, 26, 3245-3246.	4.8	15
169	Development of Organic Polymer-bound Metal Complex Catalysts.. Sekiyu Gakkaishi (Journal of the) Tj ETQq1 1 0.784314 rgBT /Overlo	0.1	3
170	Surface selectivity in blending polyethylene-poly(ethylene glycol) block cooligomers into high-density polyethylene. Macromolecules, 1992, 25, 636-643.	4.8	44
171	Surface modification of ester-containing polymers with anionic derivatives of amine-terminated oligomers. Chemistry of Materials, 1992, 4, 1240-1245.	6.7	10
172	Enantioselective metal carbene transformations with polyethylene-bound soluble recoverable dirhodium(II) 2-pyrrolidone-5(S)-carboxylates. Journal of Organic Chemistry, 1992, 57, 6103-6105.	3.2	90
173	Modification of polyolefin surfaces with iron cluster oxidants. Journal of Polymer Science Part A, 1992, 30, 389-396.	2.3	2
174	New grafting chemistry for functionalized polyethylene films. Journal of Polymer Science Part A, 1992, 30, 2049-2053.	2.3	19
175	New strategies in using macromolecular catalysts in organic synthesis. Journal of Molecular Catalysis, 1992, 74, 409-419.	1.2	36
176	Hydrazone Anions. , 1991, , 503-526.		9
177	Catalytic cyclopropanation with transition metal salts of soluble polyethylene carboxylates. Tetrahedron Letters, 1991, 32, 2731-2734.	1.4	72
178	Polyethylene carboxylate-bound triruthenium clusters as alcohol oxidation catalysts. Reactive & Functional Polymers, 1990, 12, 291-295.	0.8	13
179	Effect of solvent polarity on functionalized polyethylene-solution interfaces. Macromolecules, 1990, 23, 764-769.	4.8	42
180	Alkylation of active methylene compounds by allylic alcohols using tetrakis(triphenylphosphine)palladium(0) catalysts. Journal of the Chemical Society Chemical Communications, 1989, , 883.	2.0	50

#	Article	IF	Citations
181	A polyethylene-bound ruthenium(II) catalyst for inter- and intramolecular kharasch reactions. Tetrahedron Letters, 1989, 30, 3915-3918.	1.4	46
182	Anionic syntheses of terminally functionalized ethylene oligomers. Journal of Polymer Science Part A, 1989, 27, 4205-4226.	2.3	49
183	Azo dye stereoisomerization at polyethylene-solution interfaces. Macromolecules, 1989, 22, 4648-4650.	4.8	21
184	Control of surface functionalization of polyethylene powders prepared by coprecipitation of functionalized ethylene oligomers and polyethylene. Macromolecules, 1989, 22, 654-662.	4.8	20
185	Soluble polyethylene- and polystyrene-bound tin halides as catalysts for reductions of alkyl and aryl bromides and iodides by sodium borohydride. Journal of Organic Chemistry, 1989, 54, 5138-5141.	3.2	34
186	Polyethylene-bound soluble recoverable palladium(0) catalysts. Journal of Organic Chemistry, 1989, 54, 2726-2730.	3.2	82
187	Broensted acidity at polyethylene-solution interfaces. Macromolecules, 1988, 21, 3331-3333.	4.8	8
188	Lipase-catalyzed irreversible transesterifications using enol esters as acylating reagents: preparative enantio- and regioselective syntheses of alcohols, glycerol derivatives, sugars and organometallics. Journal of the American Chemical Society, 1988, 110, 7200-7205.	13.7	540
189	Polyethylene-bound rhodium(I) hydrogenation catalysts. Journal of the American Chemical Society, 1987, 109, 174-179.	13.7	85
190	Polymeric cofactors which accelerate homogeneous rhodium(I) and ruthenium(II) catalyzed hydrogenations of alkenes. Applied Organometallic Chemistry, 1987, 1, 65-72.	3.5	3
191	Soluble Polymer-Bound Reagents and Catalysts. ACS Symposium Series, 1986, , 17-41.	0.5	16
192	Use of functionalized ethylene oligomers to prepare recoverable, recyclable nickel(0) diene cyclooligomerization catalysts. Journal of Organic Chemistry, 1986, 51, 4754-4760.	3.2	34
193	Diphenylphosphinated ethylene oligomers as polymeric reagents for synthesis of alkyl chlorides from alcohols. Journal of the Chemical Society Chemical Communications, 1985, , 337.	2.0	14
194	Recyclable polymer-bound lanthanide diene polymerization catalysts. Macromolecules, 1985, 18, 1055-1057.	4.8	36
195	Concurrent catalytic reduction/stoichiometric oxidation using oligomerically ligated catalysts and polymer-bound reagents. Journal of the American Chemical Society, 1985, 107, 4792-4793.	13.7	44
196	Functionalized ethylene oligomers as phase-transfer catalysts. Journal of Organic Chemistry, 1985, 50, 5828-5833.	3.2	38
197	Entrapment of functionalized ethylene oligomers in polyethylene. Macromolecules, 1984, 17, 2111-2116.	4.8	23
198	Allylic substitution using heterogeneous palladium catalysts. Journal of the Chemical Society Chemical Communications, 1983, , 1238.	2.0	28

#	Article	IF	Citations
199	Palladium/polystyrene catalysts. Journal of Organic Chemistry, 1983, 48, 4179-4186.	3.2	49
200	Nuclear magnetic resonance studies of methylsilver(I) complexes. Organometallics, 1983, 2, 1354-1359.	2.3	10
201	Alkylation of Imine and Enamine Salts. , 1983, , 243-273.		14
202	Thermolysis of butylsilver(I) ate complexes. Journal of Organic Chemistry, 1981, 46, 727-733.	3.2	13
203	Preparation of .beta.-lactams by the condensation of lithium ester enolates with aryl aldimines. Journal of Organic Chemistry, 1980, 45, 3413-3416.	3.2	76
204	Regioselectivity in deprotonation of ketone dimethylhydrazones with lithium amide bases. Tetrahedron Letters, 1979, 20, 4145-4148.	1.4	9
205	Polarity reversed Prelog reactions. Tetrahedron Letters, 1979, 20, 103-106.	1.4	19
206	Polymeric Organometallics as Precursors of Polymer Supported Catalysts. , 1979, , 651-657.		3
207	Reactions of potassium-graphite. Journal of the American Chemical Society, 1978, 100, 2126-2134.	13.7	196
208	Location and mobility of functional groups at the surface of oxidized, low-density polyethylene film. Journal of the American Chemical Society, 1977, 99, 4746-4756.	13.7	53
209	Stereochemistry of aldehyde dimethylhydrazone anions. Journal of the Chemical Society Chemical Communications, 1977, , 486.	2.0	9
210	Synthesis and utilization of organocopper(I) ate complexes from Grignard reagents. Journal of Organic Chemistry, 1976, 41, 2750-2753.	3.2	50
211	Lewis base properties of potassium-graphite. Journal of the Chemical Society Chemical Communications, 1976, , 913b.	2.0	21
212	Hyperbranched Surface Graft Polymerizations. , 0, , 1-49.		19
213	Capsules of the Poly(Î±-olefin) PAO432 for Removal of BTEX Contaminants from Water. Industrial & Engineering Chemistry Research, 0, , .	3.7	9