Mark M Green

List of Publications by Year
in descending order

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53	4,550	172207	182168
papers	citations	29 h-index	51 g-index

56	56	56	2178
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Macromolecular Route to Chiral Amplification. Angewandte Chemie - International Edition, 1999, 38, 3138-3154.	7.2	684
2	Macromolecular stereochemistry: the out-of-proportion influence of optically active comonomers on the conformational characteristics of polyisocyanates. The sergeants and soldiers experiment. Journal of the American Chemical Society, 1989, 111, 6452-6454.	6.6	623
3	Majority Rules in the Copolymerization of Mirror Image Isomers. Journal of the American Chemical Society, 1995, 117, 4181-4182.	6.6	357
4	Absolute Configuration and Optical Rotatory Power of Sulfoxides and Sulfinate Esters1,2. Journal of the American Chemical Society, 1965, 87, 1958-1976.	6.6	283
5	Macromolecular stereochemistry: a cooperative deuterium isotope effect leading to a large optical rotation. Journal of the American Chemical Society, 1988, 110, 4063-4065.	6.6	223
6	Macromolecular stereochemistry: helical sense preference in optically active polyisocyanates. Amplification of a conformational equilibrium deuterium isotope effect. Journal of the American Chemical Society, 1989, 111, 8850-8858.	6.6	212
7	A macromolecular conformational change driven by a minute chiral solvation energy. Journal of the American Chemical Society, 1993, 115, 4941-4942.	6.6	190
8	Chiral Studies across the Spectrum of Polymer Science. Accounts of Chemical Research, 2001, 34, 672-680.	7.6	181
9	Chiral Conflict. The Effect of Temperature on the Helical Sense of a Polymer Controlled by the Competition between Structurally Different Enantiomers:Â From Dilute Solution to the Lyotropic Liquid Crystal State. Journal of the American Chemical Society, 2003, 125, 7313-7323.	6.6	148
10	Switching a Helical Polymer between Mirror Images Using Circularly Polarized Light. Journal of the American Chemical Society, 2000, 122, 2603-2612.	6.6	143
11	Chiral Optical Properties of a Helical Polymer Synthesized from Nearly Racemic Chiral Monomers Highly Diluted with Achiral Monomers. Journal of the American Chemical Society, 1999, 121, 1665-1673.	6.6	137
12	Helical conformations, internal motion, and helix sense reversal in polyisocyanates and the preferred helix sense of an optically active polyisocyanate. Macromolecules, 1992, 25, 4142-4148.	2.2	106
13	Mechanism of the Transformation of a Stiff Polymer Lyotropic Nematic Liquid Crystal to the Cholesteric State by Dopant-Mediated Chiral Information Transfer. Journal of the American Chemical Society, 1998, 120, 9810-9817.	6.6	93
14	Designing a Helical Polymer that Reverses its Handedness at a Selected, Continuously Variable, Temperature. Angewandte Chemie - International Edition, 2000, 39, 1482-1485.	7.2	93
15	Macromolecular stereochemistry: effect of pendant group structure on the conformational properties of polyisocyanides. Macromolecules, 1988, 21, 1839-1846.	2.2	87
16	Polyisocyanates and the interplay of experiment and theory in the formation of lyotropic cholesteric states. Macromolecules, 1993, 26, 4551-4559.	2.2	76
17	Chiral Solvation as a Means to Quantitatively Characterize Preferential Solvation of a Helical Polymer in Mixed Solvents. Journal of the American Chemical Society, 1997, 119, 6991-6995.	6.6	73
18	Chiral Studies in Amorphous Solids:Â The Effect of the Polymeric Glassy State on the Racemization Kinetics of Bridged Paddled Binaphthyls. Journal of the American Chemical Society, 2001, 123, 49-56.	6.6	59

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19	Molecular-Weight Dependence of the Optical Rotation of Poly((R)-2-deuterio-n-hexyl isocyanate). Macromolecules, 1995, 28, 1016-1024.	2.2	57
20	Optical Rotation of Random Copolyisocyanates of Chiral and Achiral Monomers:Â Sergeant and Soldier Copolymersâ€. Macromolecules, 1998, 31, 6362-6368.	2.2	55
21	Chiral Cooperativity in Helical Polymers. Israel Journal of Chemistry, 2011, 51, 1067-1074.	1.0	53
22	Molecular Weight Dependence of the Optical Rotation of Poly((R)-1-deuterio-n-hexyl isocyanate) in Dilute Solution. Macromolecules, 1996, 29, 2878-2884.	2.2	46
23	Homochirality in Life: Two Equal Runners, One Tripped. Origins of Life and Evolution of Biospheres, 2010, 40, 111-118.	0.8	42
24	Macromolecular stereochemistry: the effect of pendant group structure on the axial dimension of polyisocyanates. Macromolecules, 1987, 20, 992-999.	2.2	41
25	Dynamic NMR Determination of the Barrier for Interconversion of the Left- and Right-Handed Helical Conformations in a Polyisocyanate. Macromolecules, 1999, 32, 1304-1307.	2.2	41
26	Thermoreversible Aggregation and Gelation of Poly(n-hexyl Isocyanate). Macromolecules, 1997, 30, 4590-4596.	2.2	37
27	Cholesteric Pitch of Lyotropic Polymer Liquid Crystals. Macromolecules, 1998, 31, 1398-1405.	2.2	35
28	Molecular Mechanisms for the Optical Activities of Polyisocyanates Induced by Intramolecular Chiral Perturbations. Polymer Journal, 1997, 29, 77-84.	1.3	34
29	Global conformations of chiral polyisocyanates in dilute solution. Polymer, 1999, 40, 849-856.	1.8	30
30	Macromolecular stereochemistry of poly(p-biphenylmethyl-L-glutamate): linkage between biphenyl twist sense and polypeptide conformation and observation of microaggregation-driven, sudden, temperature-dependent chiral optical changes. Macromolecules, 1990, 23, 4225-4234.	2.2	28
31	Conformational Heterogeneity in PNA:PNA Duplexes. Macromolecules, 2010, 43, 2692-2703.	2.2	28
32	An unexpected chiral spiro tetramer offers mechanistic insight into an improved sodium cyanide initiated polymerization of n-hexyl isocyanate in toluene. Macromolecules, 1992, 25, 5536-5538.	2.2	26
33	Cooperation in a deep helical energy well. Chirality, 1991, 3, 285-291.	1.3	22
34	An On/Off Circular Dichroism Signal Reveals a pH Dependent Competition between a Cyclodextrin and a Polyelectrolyte for an Atropisomeric Aromatic Guest. Journal of the American Chemical Society, 1997, 119, 12404-12405.	6.6	22
35	The road to chiral amplification in polymers originated in Italy. Chirality, 1997, 9, 424-427.	1.3	21
36	Cosmic Chirality. , 1998, 282, 879e-879.		21

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37	Absolute configuration and optical rotatory dispersion of methyl alkyl sulfoxides. Tetrahedron Letters, 1968, 9, 3249-3252.	0.7	19
38	Counterintuitive influence of microscopic chirality on helical order in polymers. Journal of Physical Organic Chemistry, 2004, 17, 719-723.	0.9	18
39	Chiral Discotic Molecules: Expression and Amplification of Chirality. Topics in Stereochemistry, 2004, , 373-423.	2.0	16
40	Structural studies on alkylisocyanate polymers by thermal degradation tandem mass spectrometry. Journal of the American Society for Mass Spectrometry, 1991, 2, 130-148.	1.2	15
41	Microstructure of Alkyl Isocyanate Copolymers Comprised of Enantiomeric Monomers Determined by Desorption Chemical Ionization Mass Spectrometry. Macromolecules, 1995, 28, 2955-2960.	2.2	15
42	Clustering of Poly(methacrylic acid) around Appended Binaphthyl Labels As Reflected by the Disruption of Î³-Cyclodextrin Complexation and Racemization Kinetics. Macromolecules, 1999, 32, 2577-2584.	2.2	15
43	Chemically Induced Dynamic Electron Polarization Studies of a pH-Dependent Free Radical Cage Formed in a Photoinitiator Labeled Poly(methacrylic acid). Macromolecules, 2002, 35, 9151-9155.	2.2	12
44	Helix control in polymers. Artificial DNA, PNA & XNA, 2012, 3, 31-44.	1.4	5
45	Cholesteric lyotropic liquid crystals and thermally reversible gels from polyisocyanates. Progress in Polymer Science, 1994, 19, 1083-1087.	11.8	4
46	Following the polyisocyanate helix reversal from dilute solution through the liquid crystal and into the solid state. Macromolecular Symposia, 1996, 101, 363-370.	0.4	4
47	A chiral polymeric analogy to a one-dimensional paramagnetic material. Chirality, 1998, 10, 41-45.	1.3	3
48	Structural deuterium isotope effects reveal the cooperativity of polymers. Journal of Labelled Compounds and Radiopharmaceuticals, 2007, 50, 961-966.	0.5	3
49	Ein ungewÃ¶hnliches Wechselspiel zwischen makromolekularer und supramolekularer HelicitÃt bei in einem chiralen FlÃ¼ssigkristall gelÃ¶sten Polyisocyanaten. Angewandte Chemie, 1992, 104, 86-87.	1.6	2
50	Helix reversals as bad neighbors to liquid crystal organizations in cholesteric states and thermally reversible gels of poly(ALKYL isocyanates). Macromolecular Symposia, 1994, 77, 277-282.	0.4	1
51	Cooperativity and chirality in a wormlike helical macromolecule. Makromolekulare Chemie Macromolecular Symposia, 1993, 70-71, 23-28.	0.6	0
52	Investigation of Photo-Responsive Chiral Polyisocyanates. Molecular Crystals and Liquid Crystals, 2000, 344, 7-13.	0.3	0
53	Macromolecular Stereochemistry: The Differing Roles of a Helix Reversal in Dilute Solution, in a Liquid Crystal, and in a Polymer Blend. , 1995, , 1-2.		0