

David A Schiraldi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

166
papers

5,646
citations

45
h-index

69
g-index

171
ext. papers

6,118
ext. citations

5
avg, IF

5.95
L-index

#	Paper	IF	Citations
166	Bio-Based Flame Retardation of AcrylonitrileButadieneStyrene. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 372-388	4.3	6
165	Morphology optimization of poly(ethylene terephthalate)/polyamide blends compatibilized via extension-dominated twin-screw extrusion. <i>Journal of Polymer Engineering</i> , 2021 , 41, 218-225	1.4	1
164	High barrier biosourced polyester from dimethyl [2,2?-bifuran]-5,5?-dicarboxylate. <i>Polymer</i> , 2020 , 191, 122258	3.9	14
163	Improving the flame retardancy of polypropylene foam with piperazine pyrophosphate via multilayering coextrusion of film/foam composites. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48552 ^{2.9}	2.9	5
162	Thermo-rheological analysis of various chain extended recycled poly(ethylene terephthalate). <i>Polymer Engineering and Science</i> , 2020 , 60, 2511-2516	2.3	3
161	Biomolecules as Flame Retardant Additives for Polymers: A Review. <i>Polymers</i> , 2020 , 12,	4.5	37
160	HDPE/EVOH Multilayered, High Barrier Films for Flexible Organic Photovoltaic Device Packaging. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 259-266	4.3	11
159	The Many Faces of Silicon and SILICON. <i>Silicon</i> , 2019 , 11, 2201-2201	2.4	
158	Flammability of Polymer/Clay Aerogel Composites: An Overview. <i>Polymer Reviews</i> , 2019 , 59, 1-24	14	41
157	Effects of feather-fiber reinforcement on poly(vinyl alcohol)/clay aerogels: Structure, property and applications. <i>Polymer</i> , 2018 , 137, 201-208	3.9	15
156	Structural interaction and gas barrier properties of ethylene-vinyl alcohol/tin phosphate glass composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018 , 56, 989-998	2.6	2
155	Oil absorption performance of polymer/clay aerogel materials. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45844	2.9	8
154	Clay-Facilitated Aqueous Dispersion of Graphite and Poly(vinyl alcohol) Aerogels Filled with Binary Nanofillers. <i>Gels</i> , 2018 , 4,	4.2	6
153	The Relation between the Rheological Properties of Gels and the Mechanical Properties of Their Corresponding Aerogels. <i>Gels</i> , 2018 , 4,	4.2	9
152	Rapid screening test for flame retardation of wood, and its applicability to thermoplastic polymer systems. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46602	2.9	1
151	Property/Morphology Relationships in SEBS-Compatibilized HDPE/Poly(phenylene ether) Blends. <i>Macromolecules</i> , 2018 , 51, 6513-6523	5.5	11
150	Copolyesters based on bibenzoic acids. <i>Polymer</i> , 2018 , 135, 120-130	3.9	7

149	Sustainable, Low Flammability, Mechanically-Strong Poly(vinyl alcohol) Aerogels. <i>Polymers</i> , 2018 , 10,	4.5	9
148	Unfrustration of a frustrated liquid crystalline polymer. <i>Polymer</i> , 2018 , 158, 59-64	3.9	
147	Poly(Amide-imide) Aerogel Materials Produced via an Ice Templating Process. <i>Materials</i> , 2018 , 11,	3.5	5
146	Effect of Bulky Substituents in the Polymer Backbone on the Properties of Polyimide Aerogels. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8287-8296	9.5	28
145	Novel Polymer Aerogel toward High Dimensional Stability, Mechanical Property, and Fire Safety. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22985-22993	9.5	50
144	Green Approach to Improving the Strength and Flame Retardancy of Poly(vinyl alcohol)/Clay Aerogels: Incorporating Biobased Gelatin. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 42258-42265	9.5	58
143	Comparison of Thermal Decomposition of Polystyrene Products vs. Bio-Based Polymer Aerogels. <i>Ohio Journal of Sciences</i> , 2017 , 117, 50	3	7
142	Effect of polyethelene oxide on the thermal degradation of cellulose biofilm - Low cost material for soft tissue repair in dentistry. <i>Journal of Clinical and Experimental Dentistry</i> , 2017 , 9, e875-e878	1.4	2
141	Improving oxygen barrier property of biaxially oriented PET/phosphate glass composite films. <i>Polymer</i> , 2017 , 127, 236-240	3.9	18
140	Highly Efficient Flame Retardant Polyurethane Foam with Alginate/Clay Aerogel Coating. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32557-32564	9.5	105
139	POSS(R) in Tight Places. <i>Silicon</i> , 2016 , 8, 57-63	2.4	4
138	Laponite/multigraphene hybrid-reinforced poly(vinyl alcohol) aerogels. <i>Polymer</i> , 2016 , 91, 180-186	3.9	21
137	Nonflammable Alginate Nanocomposite Aerogels Prepared by a Simple Freeze-Drying and Post-Cross-Linking Method. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 643-50	9.5	92
136	Clay Aerogel Supported Palladium Nanoparticles as Catalysts. <i>Gels</i> , 2016 , 2,	4.2	1
135	Biomass-Based Mechanically Strong and Electrically Conductive Polymer Aerogels and Their Application for Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 9917-24	9.5	57
134	Biobased Poly(furfuryl alcohol)/Clay Aerogel Composite Prepared by a Freeze-Drying Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 2601-2605	8.3	32
133	Tough Polymer Aerogels Incorporating a Conformal Inorganic Coating for Low Flammability and Durable Hydrophobicity. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 13051-7	9.5	34
132	Green Polymer Aerogels. <i>ACS Symposium Series</i> , 2015 , 471-482	0.4	1

131	Polymer Aerogels 2015 , 1-18		1
130	Ammonium polyphosphate-based nanocoating for melamine foam towards high flame retardancy and anti-shrinkage in fire. <i>Polymer</i> , 2015 , 66, 86-93	3.9	48
129	Effects of Molecular Weight upon Irradiation-Cross-Linked Poly(vinyl alcohol)/Clay Aerogel Properties. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 20208-14	9.5	18
128	Electrophoretic calcium phosphate mineralization of collagen hydrogels. <i>Green Materials</i> , 2015 , 3, 71-79	3.2	2
127	Low flammability foam-like materials based on epoxy, tannic acid, and sodium montmorillonite clay. <i>Green Materials</i> , 2015 , 3, 43-51	3.2	15
126	Optimization of melt blending process of nylon 6-POSS: Improving mechanical properties of spun fibers. <i>Polymer Engineering and Science</i> , 2015 , 55, 1580-1588	2.3	7
125	Incorporation of postconsumer polyurethane foam into a polymer/clay aerogel matrix. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	2
124	Effects of Fiber Reinforcement on Clay Aerogel Composites. <i>Materials</i> , 2015 , 8, 5440-5451	3.5	19
123	Mechanically strong ice-templated laponite/poly(vinyl alcohol) aerogels. <i>Materials Letters</i> , 2015 , 157, 155-157	3.3	12
122	Efficient approach to improving the flame retardancy of poly(vinyl alcohol)/clay aerogels: incorporating piperazine-modified ammonium polyphosphate. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 1780-6	9.5	76
121	Polyethylene-based nanocomposites containing organoclay: A new approach to enhance gas barrier via multilayer coextrusion and interdiffusion. <i>Polymer</i> , 2015 , 61, 42-54	3.9	50
120	Facile fabrication of poly(vinyl alcohol) gels and derivative aerogels. <i>Polymer</i> , 2014 , 55, 380-384	3.9	71
119	A thermo-rheological study on the structure property relationships in the reinforcement of nylon 6/POSS blends. <i>Polymer</i> , 2014 , 55, 860-870	3.9	12
118	Flammability of polyesters. <i>Polymer</i> , 2014 , 55, 2825-2830	3.9	11
117	Tin fluorophosphate nonwovens by melt state centrifugal Forcespinning. <i>Journal of Materials Science</i> , 2014 , 49, 8252-8260	4.3	15
116	Foamlike Xanthan Gum/Clay Aerogel Composites and Tailoring Properties by Blending with Agar. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 7680-7687	3.9	42
115	Preparation and flammability of poly(vinyl alcohol) composite aerogels. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6790-6	9.5	101
114	Fabrication and properties of irradiation-cross-linked poly(vinyl alcohol)/clay aerogel composites. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 16227-36	9.5	60

113	Chemical degradation of fluorosulfonamide fuel cell membrane polymer model compounds. <i>Journal of Power Sources</i> , 2014 , 267, 316-322	8.9	7
112	Fabrication and mechanical characterization of lignin-based aerogels. <i>Green Materials</i> , 2014 , 2, 153-158	3.2	11
111	Foam-like polymer/clay aerogels which incorporate air bubbles. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	3
110	Thermoplastic elastomers derived from bio-based monomers. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	9
109	Biodegradable pectin/clay aerogels. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 1715-21	9.5	114
108	Effects of freezing conditions on the morphology and mechanical properties of clay and polymer/clay aerogels. <i>Journal of Applied Polymer Science</i> , 2013 , 129, 1637-1641	2.9	39
107	Preparation and thermal properties of graphene oxide/main chain benzoxazine polymer. <i>European Polymer Journal</i> , 2013 , 49, 3825-3833	5.2	35
106	Multilayered confinement of iPP/TPOSS and nylon 6/APOSS blends. <i>Polymer</i> , 2013 , 54, 6992-7003	3.9	6
105	Foam-like materials based on whey protein isolate. <i>European Polymer Journal</i> , 2013 , 49, 3387-3391	5.2	36
104	Phosphorus-containing poly(trimethylene terephthalate) derived from 2-(6-oxido-6H-dibenz<e><1,2>oxaphosphorin-6-yl)-1,4-hydroxyethoxy phenylene: Synthesis, thermal degradation, combustion and pyrolysis behavior. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013 , 99, 40-48	6	12
103	Foam-like materials produced from milk and sodium montmorillonite clay using a freeze-drying process. <i>Green Materials</i> , 2013 , 1, 11-15	3.2	12
102	Polymer/clay aerogel-based glass fabric laminates. <i>Journal of Applied Polymer Science</i> , 2012 , 124, 2945-2953	5.3	14
101	Structure Property Relationships and the Role of Processing in the Reinforcement of Nylon 6-POSS Blends. <i>Macromolecules</i> , 2012 , 45, 4650-4657	5.5	52
100	Graphene arrested in laponite-water colloidal glass. <i>Langmuir</i> , 2012 , 28, 4009-15	4	29
99	Optical Data Storage: Roll-to-Roll Fabrication of Multilayer Films for High Capacity Optical Data Storage (Adv. Mater. 38/2012). <i>Advanced Materials</i> , 2012 , 24, 5146-5146	24	
98	Roll-to-roll fabrication of multilayer films for high capacity optical data storage. <i>Advanced Materials</i> , 2012 , 24, 5222-6, 5146	24	47
97	Low flammability, foam-like materials based on ammonium alginate and sodium montmorillonite clay. <i>Polymer</i> , 2012 , 53, 5825-5831	3.9	103
96	Experimental Determination of Hansen Solubility Parameters for Select POSS and Polymer Compounds as a Guide to POSS/Polymer Interaction Potentials. <i>Macromolecules</i> , 2012 , 45, 1931-1936	5.5	54

95	Oxygen permeability in thermoplastic polyurethanes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012 , 50, 681-693	2.6	20
94	Structure-property evaluation of trisilanolphenyl POSS ₃ /polysulfone composites as a guide to POSS melt blending. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 2914-2919	2.9	15
93	Improving the mechanical properties of clay/polymer aerogels by a simple dip-coating procedure. <i>Journal of Applied Polymer Science</i> , 2012 , 126, 2004-2009	2.9	4
92	Solution Cross-Linked Natural Rubber (NR)/Clay Aerogel Composites. <i>Macromolecules</i> , 2011 , 44, 923-931	5.5	51
91	Phosphonated poly(arylene ether)s as potential high temperature proton conducting materials. <i>Polymer</i> , 2011 , 52, 4709-4717	3.9	53
90	Poly(arylene ether)s with Pendant Perfluoroalkyl Sulfonic Acid Groups as Proton-Exchange Membrane Materials. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 673-678	2.6	18
89	Two-photon 3D optical data storage via aggregate switching of excimer-forming dyes. <i>Advanced Materials</i> , 2011 , 23, 2425-9	24	66
88	The morphology and properties of melt-mixed polyoxymethylene/monosilanolisobutyl-POSS composites. <i>High Performance Polymers</i> , 2011 , 23, 457-467	1.6	21
87	Modification of polymers using multilayered smart pellet additives: Part II. <i>Polymer</i> , 2011 , 52, 3226-3233	3.9	4
86	Modification of polymers using multilayered smart pellet additives: Part I. <i>Polymer</i> , 2011 , 52, 2939-2946	3.9	4
85	Chemical Degradation of Membrane Polymer Model Compounds under Simulated Fuel Cell Conditions. <i>ECS Transactions</i> , 2010 , 33, 883-888	1	8
84	Clay Aerogel Composite Materials. <i>Advances in Science and Technology</i> , 2010 , 63, 147-151	0.1	6
83	Chemical Durability Studies of PFSA and Nonfluorinated PEM Materials. <i>ACS Symposium Series</i> , 2010 , 125-136	0.4	
82	Structure and Gas Barrier Properties of Poly(propylene-graft-maleic anhydride)/Phosphate Glass Composites Prepared by Microlayer Coextrusion. <i>Macromolecules</i> , 2010 , 43, 4230-4239	5.5	104
81	Mechanical, rheological, and swelling behavior of natural rubber/montmorillonite aerogels prepared by freeze-drying. <i>Applied Clay Science</i> , 2010 , 50, 271-279	5.2	55
80	Influence of electrolyte and polymer loadings on mechanical properties of clay aerogels. <i>Langmuir</i> , 2010 , 26, 12198-202	4	42
79	Development of biodegradable foamlike materials based on casein and sodium montmorillonite clay. <i>Biomacromolecules</i> , 2010 , 11, 2640-6	6.9	88
78	What Does It Take To Make a Stable POSS ₃ /Polymer Composite?. <i>ACS Symposium Series</i> , 2010 , 211-226	0.4	3

77	The effects of physical and chemical interactions in the formation of cellulose aerogels. <i>Polymer Bulletin</i> , 2010 , 65, 951-960	2.4	28
76	Influence of carbon support microstructure on the polarization behavior of a polymer electrolyte membrane fuel cell membrane electrode assemblies. <i>Journal of Power Sources</i> , 2010 , 195, 5167-5175	8.9	6
75	Morphology and Thermomechanical Properties of Melt-Mixed Polyoxymethylene/Polyhedral Oligomeric Silsesquioxane Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2010 , 295, 846-858	3.8	46
74	Anisotropic Clay Aerogel Composite Materials. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1188, 167		2
73	Pressure-Sensitive Chromogenic Polyesters. <i>Macromolecular Materials and Engineering</i> , 2009 , 294, 244-249	3.9	20
72	Novel Absorbent Materials Created via Ice Templating. <i>Macromolecular Materials and Engineering</i> , 2009 , 294, 570-574	3.9	41
71	pH Tailoring Electrical and Mechanical Behavior of Polymer-Clay-Nanotube Aerogels. <i>Macromolecular Rapid Communications</i> , 2009 , 30, 1669-73	4.8	35
70	Improving interfacial adhesion between thermoplastic polyurethane and copper foil using amino carboxylic acids. <i>Journal of Applied Polymer Science</i> , 2009 , 112, 1738-1744	2.9	14
69	Biaxially oriented poly(propylene-g-maleic anhydride)/phosphate glass composite films for high gas barrier applications. <i>Polymer</i> , 2009 , 50, 598-604	3.9	47
68	Study of the morphology and properties of melt-mixed polycarbonate/POSS nanocomposites. <i>European Polymer Journal</i> , 2009 , 45, 341-352	5.2	94
67	Mineralization of clay/polymer aerogels: a bioinspired approach to composite reinforcement. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 1305-9	9.5	42
66	Clay aerogel/cellulose whisker nanocomposites: a nanoscale wattle and daub. <i>Journal of Materials Chemistry</i> , 2009 , 19, 2118		130
65	Foam-like materials produced from abundant natural resources. <i>Green Chemistry</i> , 2008 , 10, 1078	10	65
64	Biologically Based Fiber-Reinforced/Clay Aerogel Composites. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 615-619	3.9	62
63	Decolorization of colored poly(ethylene terephthalate) bottle flakes using hydrogen peroxide. <i>Journal of Applied Polymer Science</i> , 2008 , 107, 3212-3220	2.9	7
62	Role of Specific Interactions and Solubility in the Reinforcement of Bisphenol A Polymers with Polyhedral Oligomeric Silsesquioxanes. <i>Macromolecules</i> , 2007 , 40, 4942-4952	5.5	70
61	Elastic, low density epoxy/clay aerogel composites. <i>Journal of Materials Chemistry</i> , 2007 , 17, 3525		82
60	Surface-modified carbons as platinum catalyst support for PEM fuel cells. <i>Carbon</i> , 2007 , 45, 1506-1517	10.4	163

59	Evaluation of electrochemical performance for surface-modified carbons as catalyst support in polymer electrolyte membrane (PEM) fuel cells. <i>Journal of Power Sources</i> , 2007 , 172, 530-541	8.9	34
58	Structure and dynamic mechanical properties of poly(ethylene terephthalate-co-4,4'-biphenylene) fibers. <i>Polymer</i> , 2007 , 48, 1651-1658	3.9	8
57	Effect of nanoscale diamondoids on the thermomechanical and morphological behaviors of polypropylene and polycarbonate. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 1077-1089	2.6	20
56	Chemical Durability Studies of Perfluorinated Sulfonic Acid Polymers and Model Compounds under Mimic Fuel Cell Conditions. <i>Macromolecules</i> , 2007 , 40, 8695-8707	5.5	108
55	Control of coefficient of thermal expansion in elastomers using boron nitride. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 5153-5161	2.9	10
54	Facile processing of clays into organically-modified aerogels. <i>AIChE Journal</i> , 2006 , 52, 1162-1168	3.6	58
53	The Future of Polymers for Fuel Cell Membranes. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 2006 , 46, 215-217		2
52	Perfluorinated Polymer Electrolyte Membrane Durability. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 2006 , 46, 315-327		55
51	Glass Transition Behavior of Clay Aerogel/Poly(vinyl alcohol) Composites. <i>Macromolecules</i> , 2006 , 39, 6537-6545	5.5	106
50	Measuring thermal conductivities of anisotropic synthetic graphite/liquid crystal polymer composites. <i>Polymer Composites</i> , 2006 , 27, 388-394	3	40
49	Role of ionic interactions in the compatibility of polyester ionomers with poly(ethylene terephthalate) and nylon 6. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006 , 44, 2091-2103	2.6	13
48	Structural changes in trisilanol POSS during nanocomposite melt processing. <i>Composite Interfaces</i> , 2005 , 11, 673-685	2.3	19
47	Effects of Thermal Treatments and Dendrimers Chemical Structures on the Properties of Highly Surface Cross-Linked Polyimide Films. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 3059-3067	3.9	56
46	Temperature-Responsive Clay Aerogel/Polymer Composites. <i>Macromolecules</i> , 2005 , 38, 9216-9220	5.5	106
45	Reinforcement of Poly(ethylene terephthalate) Fibers with Polyhedral Oligomeric Silsesquioxanes (POSS). <i>High Performance Polymers</i> , 2005 , 17, 403-424	1.6	81
44	Thermal and mechanical properties of polyhedral oligomeric silsesquioxane (POSS)/polycarbonate composites. <i>Polymer</i> , 2005 , 46, 11640-11647	3.9	238
43	Hydroquinone and Resorcinol-Containing Copolyesters. <i>Macromolecular Chemistry and Physics</i> , 2005 , 206, 1373-1381	2.6	3
42	The Rapid Chain Extension of Anthracene-Functional Polyesters by the Diels-Alder Reaction with Bismaleimides. <i>Macromolecular Chemistry and Physics</i> , 2005 , 206, 1479-1487	2.6	18

41	Thin-film polymerization and BISQ Metropolis Monte Carlo simulation of fluorinated aromatic copoly(esteramide)s. <i>Polymer</i> , 2005 , 46, 3914-3926	3.9	7
40	Properties of poly(ethylene terephthalate) containing epoxy-functionalized polyhedral oligomeric silsesquioxane. <i>Polymer International</i> , 2005 , 54, 47-53	3.3	73
39	Responsive Polymer/Clay Aerogel Composites. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 847, 502		
38	Structure and property study of nylon-6/clay nanocomposite fiber. <i>Polymer International</i> , 2004 , 53, 2072-2078	3.9	44
37	Poly(ethylene terephthalate) modified with aromatic bisester diamides: Thermal and oxygen barrier properties. <i>Journal of Polymer Science Part A</i> , 2004 , 42, 1668-1681	2.5	7
36	Crosslinking studies on poly(ethylene terephthalate-co-1,4-phenylene bisacrylate). <i>Journal of Applied Polymer Science</i> , 2004 , 91, 1698-1702	2.9	5
35	Memory effects in supramolecular networks of diacids and polyfunctional pyridine derivatives. <i>Journal of Applied Polymer Science</i> , 2004 , 92, 3097-3106	2.9	19
34	Sequence analysis and fiber properties of a blend of poly(ethylene terephthalate) and poly(ethylene terephthalate-co-4,4'-bibenzoate). <i>Journal of Applied Polymer Science</i> , 2004 , 93, 1793-1803	2.9	3
33	Crystal Structure and Composition of Poly(ethylene terephthalate-co-4,4'-bibenzoate). <i>Macromolecules</i> , 2004 , 37, 7643-7648	5.5	6
32	The One-Pot Synthesis and Diels-Alder Reactivity of 2,5-Dihydrothiophene-1,1-dioxide-3-carboxylic Acid. <i>Synthetic Communications</i> , 2003 , 33, 3643-3650	1.7	5
31	Oxygen barrier properties of PET copolymers containing bis(2-hydroxyethyl)hydroquinones. <i>Journal of Applied Polymer Science</i> , 2003 , 89, 934-942	2.9	18
30	Synthesis and Characterization of PET-Based Liquid Crystalline Copolyesters Containing 6-Oxynaphthalene-2-carboxylate and 6-Oxyanthracene-2-carboxylate Units. <i>Macromolecules</i> , 2003 , 36, 7543-7551	5.5	4
29	Nanocomposites of Liquid Crystalline Polyhedral Oligomeric Silsesquioxane Particles and Liquid Crystalline Polymers. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 788, 9101		
28	Synthesis and characterization of novel ethylene glycol polyesters containing terephthalic and 5-adamantylisophthalic acids. <i>Designed Monomers and Polymers</i> , 2003 , 6, 123-133	3.1	1
27	[Poly(ethylene terephthalate) ionomer]/silicate hybrid materials via polymer in situ sol-gel reactions. <i>Journal of Applied Polymer Science</i> , 2002 , 84, 1749-1761	2.9	7
26	Diels-Alder modification of poly(ethylene terephthalate-co-anthracene-2,6-carboxylate) with N-substituted maleimides. <i>Journal of Polymer Science Part A</i> , 2002 , 40, 3256-3263	2.5	19
25	Effects of melt-processing conditions on the quality of poly(ethylene terephthalate) montmorillonite clay nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002 , 40, 2661-2666	2.6	233
24	Fibers from polypropylene/nano carbon fiber composites. <i>Polymer</i> , 2002 , 43, 1701-1703	3.9	310

23	A Combinatorial Method for Developing Deep Dye Polyesters. <i>Textile Research Journal</i> , 2002 , 72, 153-155.	1.7	3
22	Isomerization of substituted biphenyls by superacid. A remarkable confluence of experiment and theory. <i>Journal of Organic Chemistry</i> , 2002 , 67, 2034-41	4.2	8
21	Fiber Spinning, Structure, and Properties of Poly(ethylene terephthalate-co-4,4'-bibenzoate) Copolyesters. <i>Macromolecules</i> , 2002 , 35, 5123-5130	5.5	24
20	Effects of copper on the activity of sulfated zirconia catalysts for n-pentane isomerization. <i>Applied Catalysis A: General</i> , 2001 , 209, 165-177	5.1	14
19	Effect of linear comonomers on the rate of crystallization of copolyesters. <i>Journal of Applied Polymer Science</i> , 2001 , 80, 2696-2704	2.9	6
18	Effect of comonomers on the rate of crystallization of PET: U-turn comonomers. <i>Journal of Applied Polymer Science</i> , 2001 , 81, 1675-1682	2.9	9
17	Synthesis and Thermal Characterization of Poly(alkylene 2,6-anthracenedicarboxylate)s. <i>Macromolecular Chemistry and Physics</i> , 2001 , 202, 1776-1781	2.6	4
16	The Formylation of Toluene in Trifluoromethanesulfonic Acid. <i>Journal of Catalysis</i> , 2001 , 199, 149-153	7.3	23
15	The balance between electronic and steric effects in the template-directed syntheses of [2]catenanes. <i>Tetrahedron</i> , 2001 , 57, 3799-3808	2.4	17
14	Pyrene and anthracene dicarboxylic acids as fluorescent brightening comonomers for polyester. <i>Journal of Polymer Science Part A</i> , 2000 , 38, 1291-1301	2.5	17
13	Photocrosslinkable copolyesters: Poly(alkylene terephthalate-co-1,4-phenylene bisacrylate). <i>Journal of Polymer Science Part A</i> , 2000 , 38, 2167-2176	2.5	11
12	Photochemical Cross-Linking of Poly(ethylene terephthalate-co-2,6-anthracenedicarboxylate). <i>Macromolecules</i> , 2000 , 33, 1640-1645	5.5	27
11	Difunctional pyrene derivatives as fluorescent brightening agents for condensation polymers. <i>Dyes and Pigments</i> , 1999 , 43, 203-206	4.6	3
10	Cross-Linking and Modification of Poly(ethylene terephthalate-co-2,6-anthracenedicarboxylate) by Diels-Alder Reactions with Maleimides. <i>Macromolecules</i> , 1999 , 32, 5786-5792	5.5	112
9	Efficient Synthesis of 4,5,9,10-Tetrahydropyrene: A Useful Synthetic Intermediate for the Synthesis of 2,7-Disubstituted Pyrenes. <i>Journal of Organic Chemistry</i> , 1999 , 64, 6888-6890	4.2	41
8	Supercritical Fluid Separation for Selective Quaternary Ammonium Salt Promoted Esterification of Terephthalic Acid. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 3622-3627	3.9	16
7	Tuning alkylation reactions with temperature in near-critical water. <i>AIChE Journal</i> , 1998 , 44, 2080-2087	3.6	45
6	Thermal Transesterification of Bis(hydroxymethyl)propane-1,3-diyl Units in (Poly(ethyl terephthalate) and Poly(butylene terephthalate): A Route to Thermoset Polyesters. <i>Macromolecules</i> , 1998 , 31, 2475-2479	5.5	9

5	Towards the unification of coenzyme B12-dependent diol dehydratase stereochemical and model studies: The bound radical mechanism. <i>Coordination Chemistry Reviews</i> , 1984 , 54, 1-22	23.2	79
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