

# David A Schiraldi

## List of Publications by Year in descending order

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167  
papers

6,687  
citations

46918

47  
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74018

75  
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171  
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171  
docs citations

171  
times ranked

6271  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fibers from polypropylene/nano carbon fiber composites. <i>Polymer</i> , 2002, 43, 1701-1703.	1.8	353
2	Thermal and mechanical properties of polyhedral oligomeric silsesquioxane (POSS)/polycarbonate composites. <i>Polymer</i> , 2005, 46, 11640-11647.	1.8	260
3	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.	2.4	245
4	Surface-modified carbons as platinum catalyst support for PEM fuel cells. <i>Carbon</i> , 2007, 45, 1506-1517.	5.4	174
5	Highly Efficient Flame Retardant Polyurethane Foam with Alginate/Clay Aerogel Coating. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 32557-32564.	4.0	157
6	Clay aerogel/cellulose whisker nanocomposites: a nanoscale wattle and daub. <i>Journal of Materials Chemistry</i> , 2009, 19, 2118.	6.7	146
7	Biodegradable Pectin/Clay Aerogels. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 1715-1721.	4.0	141
8	Nonflammable Alginate Nanocomposite Aerogels Prepared by a Simple Freeze-Drying and Post-Cross-Linking Method. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 643-650.	4.0	134
9	Preparation and Flammability of Poly(vinyl alcohol) Composite Aerogels. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 6790-6796.	4.0	125
10	Chemical Durability Studies of Perfluorinated Sulfonic Acid Polymers and Model Compounds under Mimic Fuel Cell Conditions. <i>Macromolecules</i> , 2007, 40, 8695-8707.	2.2	124
11	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.	2.2	121
12	Glass Transition Behavior of Clay Aerogel/Poly(vinyl alcohol) Composites. <i>Macromolecules</i> , 2006, 39, 6537-6545.	2.2	121
13	Low flammability, foam-like materials based on ammonium alginate and sodium montmorillonite clay. <i>Polymer</i> , 2012, 53, 5825-5831.	1.8	119
14	Temperature-Responsive Clay Aerogel-Polymer Composites. <i>Macromolecules</i> , 2005, 38, 9216-9220.	2.2	113
15	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.	2.2	113
16	Green Approach to Improving the Strength and Flame Retardancy of Poly(vinyl alcohol)/Clay Aerogels: Incorporating Biobased Gelatin. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 42258-42265.	4.0	104
17	Study of the morphology and properties of melt-mixed polycarbonate-POSS nanocomposites. <i>European Polymer Journal</i> , 2009, 45, 341-352.	2.6	101
18	Development of Biodegradable Foamlike Materials Based on Casein and Sodium Montmorillonite Clay. <i>Biomacromolecules</i> , 2010, 11, 2640-2646.	2.6	101

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19	Efficient Approach to Improving the Flame Retardancy of Poly(vinyl alcohol)/Clay Aerogels: Incorporating Piperazine-Modified Ammonium Polyphosphate. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 1780-1786.	4.0	98
20	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.	9.5	93
21	Reinforcement of Poly(ethylene terephthalate) Fibers with Polyhedral Oligomeric Silsesquioxanes (POSS). <i>High Performance Polymers</i> , 2005, 17, 403-424.	0.8	85
22	Elastic, low density epoxy/clay aerogel composites. <i>Journal of Materials Chemistry</i> , 2007, 17, 3525.	6.7	84
23	Facile fabrication of poly(vinyl alcohol) gels and derivative aerogels. <i>Polymer</i> , 2014, 55, 380-384.	1.8	84
24	Two-Photon 3D Optical Data Storage via Aggregate Switching of Excimer-Forming Dyes. <i>Advanced Materials</i> , 2011, 23, 2425-2429.	11.1	80
25	Biomass-Based Mechanically Strong and Electrically Conductive Polymer Aerogels and Their Application for Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 9917-9924.	4.0	76
26	Role of Specific Interactions and Solubility in the Reinforcement of Bisphenol A Polymers with Polyhedral Oligomeric Silsesquioxanes. <i>Macromolecules</i> , 2007, 40, 4942-4952.	2.2	74
27	Fabrication and Properties of Irradiation-Cross-Linked Poly(vinyl alcohol)/Clay Aerogel Composites. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 16227-16236.	4.0	74
28	Properties of poly(ethylene terephthalate) containing epoxy-functionalized polyhedral oligomeric silsesquioxane. <i>Polymer International</i> , 2005, 54, 47-53.	1.6	73
29	Foam-like materials produced from abundant natural resources. <i>Green Chemistry</i> , 2008, 10, 1078.	4.6	73
30	Novel Polymer Aerogel toward High Dimensional Stability, Mechanical Property, and Fire Safety. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 22985-22993.	4.0	72
31	Flammability of Polymer/Clay Aerogel Composites: An Overview. <i>Polymer Reviews</i> , 2019, 59, 1-24.	5.3	71
32	Biologically Based Fiber-Reinforced/Clay Aerogel Composites. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 615-619.	1.8	69
33	Perfluorinated Polymer Electrolyte Membrane Durability. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 2006, 46, 315-327.	2.2	68
34	Phosphonated poly(arylene ether)s as potential high temperature proton conducting materials. <i>Polymer</i> , 2011, 52, 4709-4717.	1.8	67
35	Mechanical, rheological, and swelling behavior of natural rubber/montmorillonite aerogels prepared by freeze-drying. <i>Applied Clay Science</i> , 2010, 50, 271-279.	2.6	66
36	Facile processing of clays into organically-modified aerogels. <i>AIChE Journal</i> , 2006, 52, 1162-1168.	1.8	65

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37	Polyethylene-based nanocomposites containing organoclay: A new approach to enhance gas barrier via multilayer coextrusion and interdiffusion. <i>Polymer</i> , 2015, 61, 42-54.	1.8	62
38	Solution Cross-Linked Natural Rubber (NR)/Clay Aerogel Composites. <i>Macromolecules</i> , 2011, 44, 923-931.	2.2	60
39	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.	2.2	60
40	Effects of Thermal Treatments and Dendrimers Chemical Structures on the Properties of Highly Surface Cross-Linked Polyimide Films. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 3059-3067.	1.8	59
41	Ammonium polyphosphate-based nanocoating for melamine foam towards high flame retardancy and anti-shrinkage in fire. <i>Polymer</i> , 2015, 66, 86-93.	1.8	59
42	Foamlike Xanthan Gum/Clay Aerogel Composites and Tailoring Properties by Blending with Agar. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 7680-7687.	1.8	58
43	Structure Property Relationships and the Role of Processing in the Reinforcement of Nylon 6-POSS Blends. <i>Macromolecules</i> , 2012, 45, 4650-4657.	2.2	54
44	Biomolecules as Flame Retardant Additives for Polymers: A Review. <i>Polymers</i> , 2020, 12, 849.	2.0	53
45	Morphology and Thermomechanical Properties of Melt-Mixed Polyoxymethylene/Polyhedral Oligomeric Silsesquioxane Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2010, 295, 846-858.	1.7	51
46	Roll-to-Roll Fabrication of Multilayer Films for High Capacity Optical Data Storage. <i>Advanced Materials</i> , 2012, 24, 5222-5226.	11.1	51
47	Effect of Bulky Substituents in the Polymer Backbone on the Properties of Polyimide Aerogels. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 8287-8296.	4.0	51
48	Mineralization of Clay/Polymer Aerogels: A Bioinspired Approach to Composite Reinforcement. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 1305-1309.	4.0	50
49	Tough Polymer Aerogels Incorporating a Conformal Inorganic Coating for Low Flammability and Durable Hydrophobicity. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 13051-13057.	4.0	50
50	Tuning alkylation reactions with temperature in near-critical water. <i>AIChE Journal</i> , 1998, 44, 2080-2087.	1.8	49
51	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.	1.3	48
52	Biaxially oriented poly(propylene-g-maleic anhydride)/phosphate glass composite films for high gas barrier applications. <i>Polymer</i> , 2009, 50, 598-604.	1.8	47
53	Novel Absorbent Materials Created via Ice Templating. <i>Macromolecular Materials and Engineering</i> , 2009, 294, 570-574.	1.7	46
54	Structure and property study of nylon-6/clay nanocomposite fiber. <i>Polymer International</i> , 2004, 53, 2072-2078.	1.6	45

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55	Measuring thermal conductivities of anisotropic synthetic graphite-liquid crystal polymer composites. <i>Polymer Composites</i> , 2006, 27, 388-394.	2.3	45
56	Influence of Electrolyte and Polymer Loadings on Mechanical Properties of Clay Aerogels. <i>Langmuir</i> , 2010, 26, 12198-12202.	1.6	43
57	Foam-like materials based on whey protein isolate. <i>European Polymer Journal</i> , 2013, 49, 3387-3391.	2.6	43
58	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.	1.7	42
59	Preparation and thermal properties of graphene oxide/main chain benzoxazine polymer. <i>European Polymer Journal</i> , 2013, 49, 3825-3833.	2.6	39
60	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.	4.0	36
61	pH Tailoring Electrical and Mechanical Behavior of Polymer-Clay-Nanotube Aerogels. <i>Macromolecular Rapid Communications</i> , 2009, 30, 1669-1673.	2.0	36
62	Biobased Poly(furfuryl alcohol)/Clay Aerogel Composite Prepared by a Freeze-Drying Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 2601-2605.	3.2	35
63	Graphene Arrested in Laponite-Water Colloidal Glass. <i>Langmuir</i> , 2012, 28, 4009-4015.	1.6	34
64	The Relation between the Rheological Properties of Gels and the Mechanical Properties of Their Corresponding Aerogels. <i>Gels</i> , 2018, 4, 33.	2.1	33
65	The effects of physical and chemical interactions in the formation of cellulose aerogels. <i>Polymer Bulletin</i> , 2010, 65, 951-960.	1.7	32
66	Photochemical Cross-Linking of Poly(ethylene terephthalate-co-2,6-anthracenedicarboxylate). <i>Macromolecules</i> , 2000, 33, 1640-1645.	2.2	31
67	Bis(pentamethylcyclopentadienyl)chlorouranium.tetrahydrofuran oxidative-addition reaction. 2. A kinetic and mechanistic study. <i>Journal of the American Chemical Society</i> , 1981, 103, 1875-1876.	6.6	30
68	Laponite/multigraphene hybrid-reinforced poly(vinyl alcohol) aerogels. <i>Polymer</i> , 2016, 91, 180-186.	1.8	27
69	Effects of feather-fiber reinforcement on poly(vinyl alcohol)/clay aerogels: Structure, property and applications. <i>Polymer</i> , 2018, 137, 201-208.	1.8	26
70	The Formylation of Toluene in Trifluoromethanesulfonic Acid. <i>Journal of Catalysis</i> , 2001, 199, 149-153.	3.1	25
71	The morphology and properties of melt-mixed polyoxymethylene/monosilanolisobutyl-POSS composites. <i>High Performance Polymers</i> , 2011, 23, 457-467.	0.8	25
72	Effects of Fiber Reinforcement on Clay Aerogel Composites. <i>Materials</i> , 2015, 8, 5440-5451.	1.3	25

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73	Fiber Spinning, Structure, and Properties of Poly(ethylene terephthalate-co-4,4'-biphenylene) Copolyesters. <i>Macromolecules</i> , 2002, 35, 5123-5130.	2.2	24
74	Oxygen permeability in thermoplastic polyurethanes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 681-693.	2.4	24
75	Model studies of coenzyme B12 dependent diol dehydratase. 1. Synthetic, physical property, and product studies of two key, cobalt-bound, putative diol dehydratase intermediates. <i>Journal of the American Chemical Society</i> , 1983, 105, 7592-7604.	6.6	23
76	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.	2.4	23
77	Pressure-sensitive Chromogenic Polyesters. <i>Macromolecular Materials and Engineering</i> , 2009, 294, 244-249.	1.7	23
78	Model studies of coenzyme B12 dependent diol dehydratase. 2. A kinetic and mechanistic study focusing upon the cobalt participation or nonparticipation question. <i>Journal of the American Chemical Society</i> , 1983, 105, 7605-7617.	6.6	22
79	The balance between electronic and steric effects in the template-directed syntheses of [2]catenanes. <i>Tetrahedron</i> , 2001, 57, 3799-3808.	1.0	22
80	Effects of Molecular Weight upon Irradiation-Cross-Linked Poly(vinyl alcohol)/Clay Aerogel Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 20208-20214.	4.0	22
81	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.	1.1	21
82	Positional selectivity in an encounter-controlled reaction: base-catalyzed proton exchange in amidinium ions. <i>Journal of the American Chemical Society</i> , 1982, 104, 196-201.	6.6	20
83	Effects of copper on the activity of sulfated zirconia catalysts for n-pentane isomerization. <i>Applied Catalysis A: General</i> , 2001, 209, 165-177.	2.2	20
84	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	20
85	High barrier biosourced polyester from dimethyl [2,2-bifuran]-5,5-dicarboxylate. <i>Polymer</i> , 2020, 191, 122258.	1.8	20
86	Improving oxygen barrier property of biaxially oriented PET/phosphate glass composite films. <i>Polymer</i> , 2017, 127, 236-240.	1.8	20
87	Memory effects in supramolecular networks of diacids and polyfunctional pyridine derivatives. <i>Journal of Applied Polymer Science</i> , 2004, 92, 3097-3106.	1.3	19
88	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.	1.1	19
89	Structural changes in trisilanol POSS during nanocomposite melt processing. <i>Composite Interfaces</i> , 2005, 11, 673-685.	1.3	19
90	Role of ionic interactions in the compatibility of polyester ionomers with poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,62 Td (ter	2.4	19

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91	Sustainable, Low Flammability, Mechanically-Strong Poly(vinyl alcohol) Aerogels. <i>Polymers</i> , 2018, 10, 1102.	2.0	19
92	Property/Morphology Relationships in SEBS-Compatibilized HDPE/Poly(phenylene ether) Blends. <i>Macromolecules</i> , 2018, 51, 6513-6523.	2.2	19
93	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.	1.3	19
94	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	18
95	Oxygen barrier properties of PET copolymers containing bis(2-hydroxyethyl)hydroquinones. <i>Journal of Applied Polymer Science</i> , 2003, 89, 934-942.	1.3	18
96	Low flammability foam-like materials based on epoxy, tannic acid, and sodium montmorillonite clay. <i>Green Materials</i> , 2015, 3, 43-51.	1.1	18
97	Phosphorus-containing poly(trimethylene terephthalate) derived from 2-(6-oxido-6H-dibenz[ <i>c, e</i> ][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.	2.6	17
98	Tin fluorophosphate nonwovens by melt state centrifugal Forcespinning. <i>Journal of Materials Science</i> , 2014, 49, 8252-8260.	1.7	17
99	Comparison of Thermal Decomposition of Polystyrene Products vs. Bio-Based Polymer Aerogels. <i>Ohio Journal of Sciences</i> , 2017, 117, 50.	0.3	17
100	Supercritical Fluid Separation for Selective Quaternary Ammonium Salt Promoted Esterification of Terephthalic Acid. <i>Industrial &amp; Engineering Chemistry Research</i> , 1999, 38, 3622-3627.	1.8	16
101	Improving interfacial adhesion between thermoplastic polyurethane and copper foil using amino carboxylic acids. <i>Journal of Applied Polymer Science</i> , 2009, 112, 1738-1744.	1.3	16
102	Polymer/clay aerogel-based glass fabric laminates. <i>Journal of Applied Polymer Science</i> , 2012, 124, 2945-2953.	1.3	16
103	Structure-property evaluation of trisilanolphenyl POSS®/polysulfone composites as a guide to POSS melt blending. <i>Journal of Applied Polymer Science</i> , 2012, 125, 2914-2919.	1.3	15
104	Mechanically strong ice-templated laponite/poly(vinyl alcohol) aerogels. <i>Materials Letters</i> , 2015, 157, 155-157.	1.3	15
105	HDPE/EVOH Multilayered, High Barrier Films for Flexible Organic Photovoltaic Device Packaging. <i>ACS Applied Polymer Materials</i> , 2019, 1, 259-266.	2.0	14
106	Foam-like materials produced from milk and sodium montmorillonite clay using a freeze-drying process. <i>Green Materials</i> , 2013, 1, 11-15.	1.1	13
107	A thermo-rheological study on the structure property relationships in the reinforcement of nylon 6-POSS blends. <i>Polymer</i> , 2014, 55, 860-870.	1.8	13
108	Thermoplastic elastomers derived from bio-based monomers. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	12

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109	Flammability of polyesters. <i>Polymer</i> , 2014, 55, 2825-2830.	1.8	12
110	Bio-Based Flame Retardation of Acrylonitrile-Butadiene-Styrene. <i>ACS Applied Polymer Materials</i> , 2021, 3, 372-388.	2.0	12
111	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
112	Fabrication and mechanical characterization of lignin-based aerogels. <i>Green Materials</i> , 2014, 2, 153-158.	1.1	11
113	Oil absorption performance of polymer/clay aerogel materials. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45844.	1.3	11
114	Thermo-rheological analysis of various chain extended recycled poly(ethylene terephthalate). <i>Polymer Engineering and Science</i> , 2020, 60, 2511-2516.	1.5	11
115	Copolyesters based on bibenzoic acids. <i>Polymer</i> , 2018, 135, 120-130.	1.8	11
116	Isomerization of Substituted Biphenyls by Superacid. A Remarkable Confluence of Experiment and Theory. <i>Journal of Organic Chemistry</i> , 2002, 67, 2034-2041.	1.7	10
117	Control of coefficient of thermal expansion in elastomers using boron nitride. <i>Journal of Applied Polymer Science</i> , 2006, 102, 5153-5161.	1.3	10
118	Decolorization of colored poly(ethylene terephthalate) bottle flakes using hydrogen peroxide. <i>Journal of Applied Polymer Science</i> , 2008, 107, 3212-3220.	1.3	10
119			



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127	Chemical Degradation of Membrane Polymer Model Compounds under Simulated Fuel Cell Conditions. ECS Transactions, 2010, 33, 883-888.	0.3	8
128	Poly(Amide-imide) Aerogel Materials Produced via an Ice Templating Process. Materials, 2018, 11, 233.	1.3	8
129	Thin-film polymerization and $\hat{\text{RIS}}^{\text{TM}}$ Metropolis Monte Carlo simulation of fluorinated aromatic copoly(ester $\hat{\text{C}}$ amide)s. Polymer, 2005, 46, 3914-3926.	1.8	7
130	Improving the mechanical properties of clay/polymer aerogels by a simple dip $\hat{\text{C}}$ coating procedure. Journal of Applied Polymer Science, 2012, 126, 2004-2009.	1.3	7
131	Multilayered confinement of iPP/TPOSS and nylon 6/APOSS blends. Polymer, 2013, 54, 6992-7003.	1.8	7
132	Chemical degradation of fluorosulfonamide fuel cell membrane polymer model compounds. Journal of Power Sources, 2014, 267, 316-322.	4.0	7
133	Optimization of melt blending process of nylon 6 $\hat{\text{C}}$ POSS $\hat{\text{C}}$ : Improving mechanical properties of spun fibers. Polymer Engineering and Science, 2015, 55, 1580-1588.	1.5	7
134	Clay-Facilitated Aqueous Dispersion of Graphite and Poly(vinyl alcohol) Aerogels Filled with Binary Nanofillers. Gels, 2018, 4, 8.	2.1	7
135	Crystal Structure and Composition of Poly(ethylene terephthalate-co-4,4 $\hat{\text{C}}$ -bibenzoate). Macromolecules, 2004, 37, 7643-7648.	2.2	6
136	Influence of carbon support microstructure on the polarization behavior of a polymer electrolyte membrane fuel cell membrane electrode assemblies. Journal of Power Sources, 2010, 195, 5167-5175.	4.0	6
137	Crosslinking studies on poly(ethylene terephthalate-co-1,4-phenylene bisacrylate). Journal of Applied Polymer Science, 2004, 91, 1698-1702.	1.3	5
138	Structural interaction and gas barrier properties of ethylene $\hat{\text{C}}$ vinyl alcohol/tin phosphate glass composites. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 989-998.	2.4	5
139	Synthesis and Thermal Characterization of Poly(alkylene 2,6-anthracenedicarboxylate)s. Macromolecular Chemistry and Physics, 2001, 202, 1776-1781.	1.1	4
140	Synthesis and Characterization of PET-Based Liquid Crystalline Copolyesters Containing 6-Oxynaphthalene-2-carboxylate and 6-Oxyanthracene-2-carboxylate Units. Macromolecules, 2003, 36, 7543-7551.	2.2	4
141	Modification of polymers using multilayered $\hat{\text{C}}$ smart pellet $\hat{\text{C}}$ additives: Part II. Polymer, 2011, 52, 3226-3233.	1.8	4
142	Modification of polymers using multilayered $\hat{\text{C}}$ smart pellet $\hat{\text{C}}$ additives: Part I. Polymer, 2011, 52, 2939-2946.	1.8	4
143	Foam $\hat{\text{C}}$ like polymer/clay aerogels which incorporate air bubbles. Journal of Applied Polymer Science, 2014, 131, .	1.3	4
144	Electrophoretic calcium phosphate mineralization of collagen hydrogels. Green Materials, 2015, 3, 71-79.	1.1	4

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145	POSS <sup>®</sup> in Tight Places. <i>Silicon</i> , 2016, 8, 57-63.	1.8	4
146	Reduction of PVA Aerogel Flammability by Incorporation of an Alkaline Catalyst. <i>Gels</i> , 2021, 7, 57.	2.1	4
147	Difunctional pyrene derivatives as fluorescent brightening agents for condensation polymers. <i>Dyes and Pigments</i> , 1999, 43, 203-206.	2.0	3
148	A Combinatorial Method for Developing Deep Dye Polyesters. <i>Textile Research Journal</i> , 2002, 72, 153-155.	1.1	3
149	Sequence analysis and fiber properties of a blend of poly(ethylene terephthalate) and poly(ethylene terephthalate)/poly(ethylene terephthalate) blends compatibilized via extension-dominated twin-screw extrusion. <i>Journal of Polymer Engineering</i> , 2021, 41, 218-225.	1.3	3
150	Hydroquinone and Resorcinol-Containing Copolyesters. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 1373-1381.	1.1	3
151	Anisotropic Clay Aerogel Composite Materials. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1188, 167.	0.1	3
152	What Does It Take To Make a Stable POSS <sup>®</sup> /Polymer Composite?. <i>ACS Symposium Series</i> , 2010, , 211-226.	0.5	3
153	Clay Aerogel Supported Palladium Nanoparticles as Catalysts. <i>Gels</i> , 2016, 2, 15.	2.1	3
154	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.	0.6	3
155	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, 0-0.	0.5	3
156	The Future of Polymers for Fuel Cell Membranes. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 2006, 46, 215-217.	2.2	2
157	Incorporation of postconsumer polyurethane foam into a polymer/clay aerogel matrix. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	2
158	Green Polymer Aerogels. <i>ACS Symposium Series</i> , 2015, , 471-482.	0.5	2
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