

Michael S Silverstein

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128
papers

4,562
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40
h-index

63
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134
ext. papers

4,988
ext. citations

4.1
avg, IF

6.51
L-index

#	Paper	IF	Citations
128	PolyHIPEs: Recent advances in emulsion-templated porous polymers. <i>Progress in Polymer Science</i> , 2014 , 39, 199-234	29.6	468
127	Emulsion-templated porous polymers: A retrospective perspective. <i>Polymer</i> , 2014 , 55, 304-320	3.9	210
126	Emulsion Templating: Porous Polymers and Beyond. <i>Macromolecules</i> , 2019 , 52, 5445-5479	5.5	151
125	Thermal degradation of poly(acrylic acid) containing copper nitrate. <i>Polymer Degradation and Stability</i> , 2004 , 86, 171-178	4.7	147
124	PolyHIPE: IPNs, hybrids, nanoscale porosity, silica monoliths and ICP-based sensors. <i>Polymer</i> , 2005 , 46, 6682-6694	3.9	132
123	Porous poly(2-hydroxyethyl methacrylate) hydrogels synthesized within high internal phase emulsions. <i>Soft Matter</i> , 2007 , 3, 1525-1529	3.6	116
122	Organic/Inorganic networks in foams from high internal phase emulsion polymerizations. <i>Polymer</i> , 2001 , 42, 4473-4482	3.9	106
121	Polymerized pickering HIPEs: Effects of synthesis parameters on porous structure. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 1516-1525	2.5	98
120	Plasma polymerized thiophene: molecular structure and electrical properties. <i>Polymer</i> , 2002 , 43, 11-20	3.9	81
119	Emulsion-templated polymers: Contemporary contemplations. <i>Polymer</i> , 2017 , 126, 261-282	3.9	80
118	Nanoparticle-Based and Organic-Phase-Based AGET ATRP PolyHIPE Synthesis within Pickering HIPEs and Surfactant-Stabilized HIPEs. <i>Macromolecules</i> , 2011 , 44, 3398-3409	5.5	77
117	Porous polyurethanes synthesized within high internal phase emulsions. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 5806-5814	2.5	76
116	Fluorine incorporation in plasma-polymerized octofluorocyclobutane, hexafluoropropylene and trifluoroethylene. <i>Polymer</i> , 2001 , 42, 3761-3769	3.9	71
115	Porous Polycaprolactone/Polystyrene Semi-interpenetrating Polymer Networks Synthesized within High Internal Phase Emulsions. <i>Macromolecules</i> , 2008 , 41, 1469-1474	5.5	70
114	PEO-Based Star Copolymers as Stabilizers for Water-in-Oil or Oil-in-Water Emulsions. <i>Macromolecules</i> , 2012 , 45, 9419-9426	5.5	69
113	Polymerized high internal-phase emulsions: Properties and interaction with water. <i>Journal of Applied Polymer Science</i> , 2002 , 84, 2018-2027	2.9	69
112	High internal phase emulsion foams: Copolymers and interpenetrating polymer networks. <i>Polymer Engineering and Science</i> , 2001 , 41, 1540-1552	2.3	69

111	Bicontinuous hydrogel-hydrophobic polymer systems through emulsion templated simultaneous polymerizations. <i>Soft Matter</i> , 2008 , 4, 2475	3.6	68
110	Synthesis of emulsion-templated porous polyacrylonitrile and its pyrolysis to porous carbon monoliths. <i>Polymer</i> , 2011 , 52, 282-287	3.9	64
109	Superabsorbent, High Porosity, PAMPS-Based Hydrogels through Emulsion Templating. <i>Macromolecular Rapid Communications</i> , 2016 , 37, 1814-1819	4.8	63
108	Silsesquioxane-Cross-Linked Porous Nanocomposites Synthesized within High Internal Phase Emulsions. <i>Macromolecules</i> , 2007 , 40, 8329-8335	5.5	61
107	Crystallinity and Cross-Linking in Porous Polymers Synthesized from Long Side Chain Monomers through Emulsion Templating. <i>Macromolecules</i> , 2008 , 41, 3930-3938	5.5	59
106	Emulsion templated bicontinuous hydrophobic-hydrophilic polymers: Loading and release. <i>Polymer</i> , 2011 , 52, 107-115	3.9	57
105	Crystallinity in Cross-Linked Porous Polymers from High Internal Phase Emulsions. <i>Macromolecules</i> , 2007 , 40, 6349-6354	5.5	55
104	A degradable, porous, emulsion-templated polyacrylate. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 7043-7053	2.5	54
103	Biodegradable Porous Polymers through Emulsion Templating. <i>Macromolecules</i> , 2009 , 42, 1627-1633	5.5	54
102	Carbons with a hierarchical porous structure through the pyrolysis of hypercrosslinked emulsion-templated polymers. <i>Polymer</i> , 2015 , 72, 453-463	3.9	52
101	One-Pot Synthesis of Elastomeric Monoliths Filled with Individually Encapsulated Liquid Droplets. <i>Macromolecules</i> , 2012 , 45, 6450-6456	5.5	51
100	One-Pot Emulsion-Templated Synthesis of an Elastomer-Filled Hydrogel Framework. <i>Macromolecules</i> , 2012 , 45, 1612-1621	5.5	51
99	Cross-linker flexibility in porous crystalline polymers synthesized from long side-chain monomers through emulsion templating. <i>Soft Matter</i> , 2008 , 4, 1630-1638	3.6	51
98	Interconnected Silsesquioxane/Organic Networks in Porous Nanocomposites Synthesized within High Internal Phase Emulsions. <i>Chemistry of Materials</i> , 2008 , 20, 1571-1577	9.6	51
97	Enhancing hydrophilicity in a hydrophobic porous emulsion-templated polyacrylate. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 4840-4845	2.5	50
96	Polymerized high internal phase emulsions containing a porogen: Specific surface area and sorption. <i>Journal of Applied Polymer Science</i> , 2004 , 94, 2233-2239	2.9	50
95	Shape memory polymer foams from emulsion templating. <i>Soft Matter</i> , 2012 , 8, 10378	3.6	49
94	Highly porous elastomer-silsesquioxane nanocomposites synthesized within high internal phase emulsions. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 2357-2366	2.5	49

93	Porous interpenetrating network hybrids synthesized within high internal phase emulsions. <i>Polymer</i> , 2007 , 48, 6648-6655	3.9	48
92	High porosity, responsive hydrogel copolymers from emulsion templating. <i>Polymer International</i> , 2016 , 65, 280-289	3.3	48
91	Polyaniline synthesis: influence of powder morphology on conductivity of solution cast blends with polystyrene. <i>Synthetic Metals</i> , 1999 , 98, 201-209	3.6	47
90	Surface modification of UHMWPE fibers. <i>Journal of Applied Polymer Science</i> , 1994 , 52, 1785-1795	2.9	47
89	Nanocomposites through copolymerization of a polyhedral oligomeric silsesquioxane and methyl methacrylate. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 4264-4275	2.5	46
88	Hierarchical structure in LCP/PET blends. <i>Journal of Applied Polymer Science</i> , 1991 , 43, 157-173	2.9	40
87	The ductile-to-quasi-brittle transition of particulate-filled thermoplastic polyester. <i>Journal of Applied Polymer Science</i> , 1994 , 52, 255-267	2.9	37
86	Relationship between surface properties and adhesion for etched ultra-high-molecular-weight polyethylene fibers. <i>Composites Science and Technology</i> , 1993 , 48, 151-157	8.6	37
85	Microphase-Separated Macroporous Polymers from an Emulsion-Templated Reactive Triblock Copolymer. <i>Macromolecules</i> , 2018 , 51, 3828-3835	5.5	36
84	Plasma polymerization of hexafluoropropylene: Film deposition and structure. <i>Journal of Applied Polymer Science</i> , 1995 , 56, 615-623	2.9	36
83	Doubly-crosslinked, emulsion-templated hydrogels through reversible metal coordination. <i>Polymer</i> , 2017 , 126, 386-394	3.9	35
82	Hierarchically porous carbons from an emulsion-templated, urea-based deep eutectic. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16376-16385	13	34
81	Plasma copolymerization: Hexafluoropropylene and a nonpolymerizable gas. <i>Journal of Polymer Science Part A</i> , 1996 , 34, 207-216	2.5	33
80	Microstructure of polyacrylate/polystyrene two-stage latices. <i>Polymer</i> , 1989 , 30, 416-424	3.9	33
79	Encapsulating an organic phase change material within emulsion-templated poly(urethane urea)s. <i>Polymer Chemistry</i> , 2019 , 10, 1498-1507	4.9	32
78	Organic/inorganic character of plasma-polymerized hexamethyldisiloxane. <i>Journal of Applied Polymer Science</i> , 1996 , 62, 2147-2154	2.9	31
77	Interpenetrating polymer networks: So happy together?. <i>Polymer</i> , 2020 , 207, 122929	3.9	29
76	Morphology and mechanical properties of fibers from blends of a liquid crystalline polymer and poly(ethylene terephthalate). <i>Journal of Applied Polymer Science</i> , 1992 , 44, 1531-1542	2.9	28

75	Highly porous, emulsion-templated, zwitterionic hydrogels: amplified and accelerated uptakes with enhanced environmental sensitivity. <i>Polymer Chemistry</i> , 2018 , 9, 3479-3487	4.9	28
74	TEM specimen preparation of semiconductor/PMMA/metal interfaces. <i>Materials Characterization</i> , 2008 , 59, 1623-1629	3.9	27
73	Hydrogels through emulsion templating: sequential polymerization and double networks. <i>Polymer Chemistry</i> , 2017 , 8, 6319-6328	4.9	26
72	Synthesis of degradable polyHIPEs by AGET ATRP. <i>Polymer</i> , 2013 , 54, 4480-4485	3.9	25
71	Novel semi-IPN through vinyl silane polymerization and crosslinking within PVC films. <i>Journal of Polymer Science Part A</i> , 2001 , 39, 8-22	2.5	25
70	Carbon nanotubes in emulsion-templated porous polymers: Polymer nanoparticles, sulfonation, and conductivity. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 4369-4377	2.5	24
69	Solvent induced morphologies of poly(methyl methacrylate-b-ethylene oxide-b-methyl methacrylate) triblock copolymers synthesized by atom transfer radical polymerization. <i>Polymer</i> , 2007 , 48, 7279-7290	3.9	24
68	Latex interpenetrating polymer networks: From structure to properties. <i>Polymers for Advanced Technologies</i> , 1996 , 7, 247-256	3.2	23
67	Elastomeric domain-type interpenetrating polymer networks. <i>Journal of Applied Polymer Science</i> , 1987 , 33, 2529-2547	2.9	23
66	Hydrogel-filled, semi-crystalline, nanoparticle-crosslinked, porous polymers from emulsion templating: Structure, properties, and shape memory. <i>Polymer</i> , 2016 , 82, 262-273	3.9	22
65	The copper/plasma-polymerized octofluorocyclobutane interface. <i>Polymer</i> , 2001 , 42, 4299-4307	3.9	22
64	Hexafluoropropylene plasmas: Polymerization rate/Reaction parameter relationships. <i>Polymer Engineering and Science</i> , 1996 , 36, 2542-2549	2.3	22
63	Mechanical properties and failure of etched UHMW-PE fibres. <i>Journal of Materials Science</i> , 1993 , 28, 4151-4158	4.1	22
62	Properties and structure of elastomeric two-stage emulsion interpenetrating networks. <i>Polymer</i> , 1985 , 26, 1359-1364	3.9	22
61	Nanopore Formation in a Polyphenylene Low-k Dielectric. <i>Macromolecules</i> , 2005 , 38, 4301-4310	5.5	21
60	Robust, highly porous hydrogels templated within emulsions stabilized using a reactive, crosslinking triblock copolymer. <i>Polymer</i> , 2019 , 168, 146-154	3.9	20
59	Elastomeric latex domain-interpenetrating polymer networks: Physical and rheological properties. <i>Polymer Engineering and Science</i> , 1989 , 29, 824-834	2.3	19
58	Adhesive properties and failure of etched UHMW-PE fibres. <i>Journal of Materials Science</i> , 1993 , 28, 4718-4724	4.7	18

57	Thermal degradation of poly(acrylic acid) containing metal nitrates and the formation of YBa ₂ Cu ₃ O _{7-x} . <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005 , 43, 1168-1176	2.6	17
56	Percolation of electrical conductivity in solution-cast blends containing polyaniline. <i>Journal of Macromolecular Science - Physics</i> , 1999 , 38, 145-161	1.4	17
55	A water transport model for the creep response of the intervertebral disc. <i>Journal of Materials Science: Materials in Medicine</i> , 1990 , 1, 81-89	4.5	17
54	Colloidal Templating 2011 , 119-172		16
53	YBCO nanofibers synthesized by electrospinning a solution of poly(acrylic acid) and metal nitrates. <i>Journal of Materials Science</i> , 2008 , 43, 1664-1668	4.3	15
52	Nanoscale structure of SANBEOBAN triblock copolymers synthesized by atom transfer radical polymerization. <i>Polymer</i> , 2006 , 47, 6673-6683	3.9	13
51	Complex formation and degradation in poly(acrylonitrile-co-vinyl acetate) containing metal nitrates. <i>Polymer</i> , 2004 , 45, 937-947	3.9	13
50	Complex formation and degradation in poly(acrylonitrile-co-vinyl acetate) containing copper nitrate. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004 , 42, 1023-1032	2.6	13
49	Spontaneous core-sheath formation in electrospun nanofibers. <i>Polymer</i> , 2011 , 52, 2869-2876	3.9	12
48	Film formation and crack development in plasma polymerized hexamethyldisiloxane. <i>Polymer Engineering and Science</i> , 1997 , 37, 1188-1194	2.3	12
47	PVC modification through polymerization of a monomer absorbed in porous suspension-type PVC particles. <i>Journal of Vinyl and Additive Technology</i> , 2004 , 10, 109-120	2	11
46	Surface modification of drawn gel-cast ultra-high molecular weight polyethylene films. <i>Journal of Adhesion Science and Technology</i> , 1995 , 9, 1193-1208	2	11
45	Electron beam radiation damage to organic inclusions in ice as an analytical tool for polymer science. <i>Journal of Electron Microscopy Technique</i> , 1985 , 2, 589-596		11
44	PolyHIPEs [Porous Polymers from High Internal Phase Emulsions 2010 ,		10
43	Effects of Plasma Exposure on SiCOH and Methyl Silsesquioxane Films. <i>Plasma Processes and Polymers</i> , 2007 , 4, 789-796	3.4	10
42	Wetting of oriented and etched ultrahigh molecular weight polyethylene. <i>Journal of Applied Polymer Science</i> , 1999 , 72, 405-418	2.9	10
41	Capillary extrusion of elastomeric emulsion crosslinked interpenetrating networks. <i>Polymer Engineering and Science</i> , 1985 , 25, 257-263	2.3	10
40	Modification of porous suspension-PVC particles by stabilizer-free aqueous dispersion polymerization of absorbed acrylate monomers. <i>Polymers for Advanced Technologies</i> , 2002 , 13, 151-161	3.2	9

39	Modification of porous suspension-PVC particles by stabilizer-free aqueous dispersion polymerization of absorbed monomers. <i>Polymer Engineering and Science</i> , 2002 , 42, 911-924	2.3	9
38	Thermal degradation of YBaCu and BiSrCaCu precursors for the preparation of high temperature superconductors. <i>Polymer Degradation and Stability</i> , 2003 , 81, 57-63	4.7	9
37	Silane-modified PVC pervaporation membranes for bromoform/water separation. <i>Journal of Applied Polymer Science</i> , 2001 , 81, 1429-1438	2.9	9
36	The Chemistry of Porous Polymers: The Holey Grail. <i>Israel Journal of Chemistry</i> , 2020 , 60, 140-150	3.4	8
35	Cellulose-based, highly porous polyurethanes templated within non-aqueous high internal phase emulsions. <i>Cellulose</i> , 2020 , 27, 4007-4018	5.5	8
34	SANS and XRR Porosimetry of a Polyphenylene Low-kDielectric. <i>Macromolecules</i> , 2006 , 39, 2998-3006	5.5	8
33	Wettability and flotation of etched ultra high molecular weight polyethylene fibres. <i>Polymer</i> , 1993 , 34, 3421-3427	3.9	8
32	RAFT polymerization within high internal phase emulsions: Porous structures, mechanical behaviors, and uptakes. <i>Polymer</i> , 2021 , 213, 123327	3.9	8
31	Plasma polymer films for 532 nm laser micromachining. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1998 , 16, 2957		7
30	Ball of string. <i>Materials Today</i> , 2013 , 16, 297-298	21.8	6
29	Porous Polymers from Self-Assembled Structures 2011 , 31-78		6
28	Rubber-modified polystyrene from multistage latexes: Rheological and physical properties. <i>Journal of Applied Polymer Science</i> , 1990 , 40, 1583-1599	2.9	6
27	Reactive Surfactants for Achieving Open-Cell PolyHIPE Foams from Pickering Emulsions. <i>Macromolecular Materials and Engineering</i> , 2021 , 306, 2000825	3.9	6
26	A polytetrafluoroethylene filled ultra-high molecular weight polyethylene composite: Mechanical and wear property relationships. <i>Polymer Engineering and Science</i> , 1995 , 35, 1785-1794	2.3	5
25	Power law relaxation in an interpenetrating polymer network. <i>Colloid and Polymer Science</i> , 1989 , 267, 1002-1006	2.4	5
24	Highly efficient and tunable miktoarm stars for HIPE stabilization and polyHIPE synthesis. <i>Polymer</i> , 2021 , 217, 123444	3.9	5
23	Modified suspension-PVC particles as absorbents of ortho-dichlorobenzene from water. <i>Polymers for Advanced Technologies</i> , 2003 , 14, 83-95	3.2	4
22	Blend structure of commingled plastic from recycled polyethylene and polystyrene. <i>Journal of Applied Polymer Science</i> , 1994 , 52, 301-314	2.9	4

21	One-pot emulsion templating for simultaneous hydrothermal carbonization and hydrogel synthesis: porous structures, nitrogen contents and activation. <i>Polymer International</i> , 2021 , 70, 1404-1412 ³³	4
20	Biomedical Devices 2011 , 323-357	3
19	Porogen Incorporation and Phase Inversion 2011 , 79-117	3
18	The degradation of novolak containing metal nitrates and the formation of YBCO. <i>Journal of Materials Science</i> , 2006 , 41, 8202-8210	4-3 3
17	Mechanical properties of commingled plastic from recycled polyethylene and polystyrene. <i>Journal of Applied Polymer Science</i> , 1994 , 52, 315-327	2.9 3
16	Polymer/Polymer Composites Consisting of Interpenetrating Network-Domain Latex Particles. <i>Journal of Elastomers and Plastics</i> , 1986 , 18, 136-146	1.6 3
15	β-Cyclodextrin-based macroporous monoliths: One-pot oil-in-oil emulsion templating and adsorption. <i>Journal of Polymer Science</i> ,	2.4 3
14	Nondestructive Evaluation of Critical Properties of Thin Porous Films 2011 , 205-245	2
13	Polymers with Inherent Microporosity 2011 , 1-29	2
12	Elastomeric Multiphase Systems Consisting of IPN-Domain Latex Particles. <i>Polymer-Plastics Technology and Engineering</i> , 1987 , 26, 271-311	2
11	Porous polycaprolactone and polycarbonate poly(urethane urea)s via emulsion templating: Structures, properties, cell growth. <i>Polymer Chemistry</i> ,	4-9 2
10	Hierarchical Porosity in Emulsion-Templated, Porogen-Containing Interpenetrating Polymer Networks: Hyper-Cross-Linking and Carbonization. <i>Macromolecules</i> , 2022 , 55, 1992-2002	5-5 2
9	High-Performance Microelectronics 2011 , 359-385	1
8	Templates for Porous Inorganics 2011 , 435-446	1
7	Separation Membranes 2011 , 275-321	1
6	Polymer-supported Reagents and Catalysts 2011 , 387-434	1
5	Surface Area and Porosity Characterization of Porous Polymers 2011 , 173-203	0
4	Polysaccharide-based, emulsion-templated, porous poly(urethane urea)s: Composition, catalysis, cell growth. <i>European Polymer Journal</i> , 2022 , 169, 111140	5-2 0

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2 Radio-Frequency Compression Molding of Recycled Commingled Polymers. *International Polymer Processing*, **2012**, 27, 138-143

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