Michael S Silverstein

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.

128	4,562	40	63
papers	citations	h-index	g-index
134	4,988	4.1	6.51
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
128	Hierarchical Porosity in Emulsion-Templated, Porogen-Containing Interpenetrating Polymer Networks: Hyper-Cross-Linking and Carbonization. *Macromolecules*, **2022**, 55, 1992-2002	5.5	2
127	Polysaccharide-based, emulsion-templated, porous poly(urethane urea)s: Composition, catalysis, cell growth. *European Polymer Journal*, **2022**, 169, 111140	5.2	0
126	One-pot emulsion templating for simultaneous hydrothermal carbonization and hydrogel synthesis: porous structures, nitrogen contents and activation. *Polymer International*, **2021**, 70, 1404-1412	3.3	4
125	Reactive Surfactants for Achieving Open-Cell PolyHIPE Foams from Pickering Emulsions. *Macromolecular Materials and Engineering*, **2021**, 306, 2000825	3.9	6
124	RAFT polymerization within high internal phase emulsions: Porous structures, mechanical behaviors, and uptakes. *Polymer*, **2021**, 213, 123327	3.9	8
123	From "Makromolekel" to POLYMER: A Centennial Celebration of Staudinger's "On Polymerization" *Polymer*, **2021**, 215, 123409	3.9	
122	Highly efficient and tunable miktoarm stars for HIPE stabilization and polyHIPE synthesis. *Polymer*, **2021**, 217, 123444	3.9	5
121	The Chemistry of Porous Polymers: The Holey Grail. *Israel Journal of Chemistry*, **2020**, 60, 140-150	3.4	8
120	Cellulose-based, highly porous polyurethanes templated within non-aqueous high internal phase emulsions. *Cellulose*, **2020**, 27, 4007-4018	5.5	8
119	Interpenetrating polymer networks: So happy together?. *Polymer*, **2020**, 207, 122929	3.9	29
118	Encapsulating an organic phase change material within emulsion-templated poly(urethane urea)s. *Polymer Chemistry*, **2019**, 10, 1498-1507	4.9	32
117	Robust, highly porous hydrogels templated within emulsions stabilized using a reactive, crosslinking triblock copolymer. *Polymer*, **2019**, 168, 146-154	3.9	20
116	Emulsion Templating: Porous Polymers and Beyond. *Macromolecules*, **2019**, 52, 5445-5479	5.5	151
115	Microphase-Separated Macroporous Polymers from an Emulsion-Templated Reactive Triblock Copolymer. *Macromolecules*, **2018**, 51, 3828-3835	5.5	36
114	Highly porous, emulsion-templated, zwitterionic hydrogels: amplified and accelerated uptakes with enhanced environmental sensitivity. *Polymer Chemistry*, **2018**, 9, 3479-3487	4.9	28
113	Hierarchically porous carbons from an emulsion-templated, urea-based deep eutectic. *Journal of Materials Chemistry A*, **2017**, 5, 16376-16385	13	34
112	Hydrogels through emulsion templating: sequential polymerization and double networks. *Polymer Chemistry*, **2017**, 8, 6319-6328	4.9	26

111	Doubly-crosslinked, emulsion-templated hydrogels through reversible metal coordination. *Polymer*, **2017**, 126, 386-394	3.9	35
110	Emulsion-templated polymers: Contemporary contemplations. *Polymer*, **2017**, 126, 261-282	3.9	80
109	Hydrogel-filled, semi-crystalline, nanoparticle-crosslinked, porous polymers from emulsion templating: Structure, properties, and shape memory. *Polymer*, **2016**, 82, 262-273	3.9	22
108	High porosity, responsive hydrogel copolymers from emulsion templating. *Polymer International*, **2016**, 65, 280-289	3.3	48
107	Superabsorbent, High Porosity, PAMPS-Based Hydrogels through Emulsion Templating. *Macromolecular Rapid Communications*, **2016**, 37, 1814-1819	4.8	63
106	Carbons with a hierarchical porous structure through the pyrolysis of hypercrosslinked emulsion-templated polymers. *Polymer*, **2015**, 72, 453-463	3.9	52
105	Emulsion-templated porous polymers: A retrospective perspective. *Polymer*, **2014**, 55, 304-320	3.9	210
104	PolyHIPEs: Recent advances in emulsion-templated porous polymers. *Progress in Polymer Science*, **2014**, 39, 199-234	29.6	468
103	Synthesis of degradable polyHIPEs by AGET ATRP. *Polymer*, **2013**, 54, 4480-4485	3.9	25
102	Ball of string. *Materials Today*, **2013**, 16, 297-298	21.8	6
101	Carbon nanotubes in emulsion-templated porous polymers: Polymer nanoparticles, sulfonation, and conductivity. *Journal of Polymer Science Part A*, **2013**, 51, 4369-4377	2.5	24
100	Shape memory polymer foams from emulsion templating. *Soft Matter*, **2012**, 8, 10378	3.6	49
99	PEO-Based Star Copolymers as Stabilizers for Water-in-Oil or Oil-in-Water Emulsions. *Macromolecules*, **2012**, 45, 9419-9426	5.5	69
98	One-Pot Synthesis of Elastomeric Monoliths Filled with Individually Encapsulated Liquid Droplets. *Macromolecules*, **2012**, 45, 6450-6456	5.5	51
97	One-Pot Emulsion-Templated Synthesis of an Elastomer-Filled Hydrogel Framework. *Macromolecules*, **2012**, 45, 1612-1621	5.5	51
96	Radio-Frequency Compression Molding of Recycled Commingled Polymers. *International Polymer Processing*, **2012**, 27, 138-143	1	
95	Emulsion templated bicontinuous hydrophobic-hydrophilic polymers: Loading and release. *Polymer*, **2011**, 52, 107-115	3.9	57
94	Porous Polymers from Self-Assembled Structures **2011**, 31-78		6

93	High-Performance Microelectronics **2011**, 359-385		1
92	Templates for Porous Inorganics **2011**, 435-446		1
91	Nondestructive Evaluation of Critical Properties of Thin Porous Films **2011**, 205-245		2
90	Microscopy Characterization of Porous Polymer Materials **2011**, 247-274		
89	Biomedical Devices **2011**, 323-357		3
88	Separation Membranes **2011**, 275-321		1
87	Porogen Incorporation and Phase Inversion **2011**, 79-117		3
86	Colloidal Templating **2011**, 119-172		16
85	Surface Area and Porosity Characterization of Porous Polymers **2011**, 173-203		0
84	Nanoparticle-Based and Organic-Phase-Based AGET ATRP PolyHIPE Synthesis within Pickering HIPEs and Surfactant-Stabilized HIPEs. *Macromolecules*, **2011**, 44, 3398-3409	5.5	77
83	Synthesis of emulsion-templated porous polyacrylonitrile and its pyrolysis to porous carbon monoliths. *Polymer*, **2011**, 52, 282-287	3.9	64
82	Spontaneous core-sheath formation in electrospun nanofibers. *Polymer*, **2011**, 52, 2869-2876	3.9	12
81	Polymer-supported Reagents and Catalysts **2011**, 387-434		1
80	Polymers with Inherent Microporosity **2011**, 1-29		2
79	PolyHIPEs Porous Polymers from High Internal Phase Emulsions **2010**,		10
78	Polymerized pickering HIPEs: Effects of synthesis parameters on porous structure. *Journal of Polymer Science Part A*, **2010**, 48, 1516-1525	2.5	98
77	Enhancing hydrophilicity in a hydrophobic porous emulsion-templated polyacrylate. *Journal of Polymer Science Part A*, **2009**, 47, 4840-4845	2.5	50
76	Porous polyurethanes synthesized within high internal phase emulsions. *Journal of Polymer Science Part A*, **2009**, 47, 5806-5814	2.5	76

75	A degradable, porous, emulsion-templated polyacrylate. *Journal of Polymer Science Part A*, **2009**, 47, 7043-7053	2.5	54
74	Biodegradable Porous Polymers through Emulsion Templating. *Macromolecules*, **2009**, 42, 1627-1633	5.5	54
73	TEM specimen preparation of semiconductor–PMMA–metal interfaces. *Materials Characterization*, **2008**, 59, 1623-1629	3.9	27
72	Bicontinuous hydrogel–hydrophobic polymer systems through emulsion templated simultaneous polymerizations. *Soft Matter*, **2008**, 4, 2475	3.6	68
71	Cross-linker flexibility in porous crystalline polymers synthesized from long side-chain monomers through emulsion templating. *Soft Matter*, **2008**, 4, 1630-1638	3.6	51
70	Porous Polycaprolactone–Polystyrene Semi-interpenetrating Polymer Networks Synthesized within High Internal Phase Emulsions. *Macromolecules*, **2008**, 41, 1469-1474	5.5	70
69	Crystallinity and Cross-Linking in Porous Polymers Synthesized from Long Side Chain Monomers through Emulsion Templating. *Macromolecules*, **2008**, 41, 3930-3938	5.5	59
68	Interconnected Silsesquioxane–Organic Networks in Porous Nanocomposites Synthesized within High Internal Phase Emulsions. *Chemistry of Materials*, **2008**, 20, 1571-1577	9.6	51
67	YBCO nanofibers synthesized by electrospinning a solution of poly(acrylic acid) and metal nitrates. *Journal of Materials Science*, **2008**, 43, 1664-1668	4.3	15
66	Highly porous elastomer-silsesquioxane nanocomposites synthesized within high internal phase emulsions. *Journal of Polymer Science Part A*, **2008**, 46, 2357-2366	2.5	49
65	Porous poly(2-hydroxyethyl methacrylate) hydrogels synthesized within high internal phase emulsions. *Soft Matter*, **2007**, 3, 1525-1529	3.6	116
64	Silsesquioxane-Cross-Linked Porous Nanocomposites Synthesized within High Internal Phase Emulsions. *Macromolecules*, **2007**, 40, 8329-8335	5.5	61
63	Crystallinity in Cross-Linked Porous Polymers from High Internal Phase Emulsions. *Macromolecules*, **2007**, 40, 6349-6354	5.5	55
62	Solvent induced morphologies of poly(methyl methacrylate-b-ethylene oxide-b-methyl methacrylate) triblock copolymers synthesized by atom transfer radical polymerization. *Polymer*, **2007**, 48, 7279-7290	3.9	24
61	Nanocomposites through copolymerization of a polyhedral oligomeric silsesquioxane and methyl methacrylate. *Journal of Polymer Science Part A*, **2007**, 45, 4264-4275	2.5	46
60	Effects of Plasma Exposure on SiCOH and Methyl Silsesquioxane Films. *Plasma Processes and Polymers*, **2007**, 4, 789-796	3.4	10
59	Porous interpenetrating network hybrids synthesized within high internal phase emulsions. *Polymer*, **2007**, 48, 6648-6655	3.9	48
58	SANS and XRR Porosimetry of a Polyphenylene Low-kDielectric. *Macromolecules*, **2006**, 39, 2998-3006	5.5	8

57	Nanoscale structure of SAN□PEO□SAN triblock copolymers synthesized by atom transfer radical polymerization. *Polymer*, **2006**, 47, 6673-6683	3.9	13
56	The degradation of novolak containing metal nitrates and the formation of YBCO. *Journal of Materials Science*, **2006**, 41, 8202-8210	4.3	3
55	Nanopore Formation in a Polyphenylene Low-k Dielectric. *Macromolecules*, **2005**, 38, 4301-4310	5.5	21
54	PolyHIPE: IPNs, hybrids, nanoscale porosity, silica monoliths and ICP-based sensors. *Polymer*, **2005**, 46, 6682-6694	3.9	132
53	Thermal degradation of poly(acrylic acid) containing metal nitrates and the formation of YBa2Cu3O7□. *Journal of Polymer Science, Part B: Polymer Physics*, **2005**, 43, 1168-1176	2.6	17
52	Complex formation and degradation in poly(acrylonitrile-co-vinyl acetate) containing metal nitrates. *Polymer*, **2004**, 45, 937-947	3.9	13
51	Complex formation and degradation in poly(acrylonitrile-co-vinyl acetate) containing copper nitrate. *Journal of Polymer Science, Part B: Polymer Physics*, **2004**, 42, 1023-1032	2.6	13
50	Polymerized high internal phase emulsions containing a porogen: Specific surface area and sorption. *Journal of Applied Polymer Science*, **2004**, 94, 2233-2239	2.9	50
49	Thermal degradation of poly(acrylic acid) containing copper nitrate. *Polymer Degradation and Stability*, **2004**, 86, 171-178	4.7	147
48	PVC modification through polymerization of a monomer absorbed in porous suspension-type PVC particles. *Journal of Vinyl and Additive Technology*, **2004**, 10, 109-120	2	11
47	Thermal degradation of Y□Ba□Cu and Bi□Sr□Ca□Cu precursors for the preparation of high temperature superconductors. *Polymer Degradation and Stability*, **2003**, 81, 57-63	4.7	9
46	Modified suspension-PVC particles as absorbents of ortho-dichlorobenzene from water. *Polymers for Advanced Technologies*, **2003**, 14, 83-95	3.2	4
45	Polymerized high internal-phase emulsions: Properties and interaction with water. *Journal of Applied Polymer Science*, **2002**, 84, 2018-2027	2.9	69
44	Modification of porous suspension-PVC particles by stabilizer-free aqueous dispersion polymerization of absorbed acrylate monomers. *Polymers for Advanced Technologies*, **2002**, 13, 151-161	3.2	9
43	Modification of porous suspension-PVC particles by stabilizer-free aqueous dispersion polymerization of absorbed monomers. *Polymer Engineering and Science*, **2002**, 42, 911-924	2.3	9
42	Plasma polymerized thiophene: molecular structure and electrical properties. *Polymer*, **2002**, 43, 11-20	3.9	81
41	The copper/plasma-polymerized octofluorocyclobutane interface. *Polymer*, **2001**, 42, 4299-4307	3.9	22
40	High internal phase emulsion foams: Copolymers and interpenetrating polymer networks. *Polymer Engineering and Science*, **2001**, 41, 1540-1552	2.3	69

39	Silane-modified PVC pervaporation membranes for bromoform/water separation. *Journal of Applied Polymer Science*, **2001**, 81, 1429-1438	2.9	9
38	Novel semi-IPN through vinyl silane polymerization and crosslinking within PVC films. *Journal of Polymer Science Part A*, **2001**, 39, 8-22	2.5	25
37	Fluorine incorporation in plasma-polymerized octofluorocyclobutane, hexafluoropropylene and trifluoroethylene. *Polymer*, **2001**, 42, 3761-3769	3.9	71
36	Organic-inorganic networks in foams from high internal phase emulsion polymerizations. *Polymer*, **2001**, 42, 4473-4482	3.9	106
35	Wetting of oriented and etched ultrahigh molecular weight polyethylene. *Journal of Applied Polymer Science*, **1999**, 72, 405-418	2.9	10
34	Polyaniline synthesis: influence of powder morphology on conductivity of solution cast blends with polystyrene. *Synthetic Metals*, **1999**, 98, 201-209	3.6	47
33	Percolation of electrical conductivity in solution-cast blends containing polyaniline. *Journal of Macromolecular Science - Physics*, **1999**, 38, 145-161	1.4	17
32	Plasma polymer films for 532 nm laser micromachining. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **1998**, 16, 2957		7
31	Film formation and crack development in plasma polymerized hexamethyldisiloxane. *Polymer Engineering and Science*, **1997**, 37, 1188-1194	2.3	12
30	Plasma copolymerization: Hexafluoropropylene and a nonpolymerizable gas. *Journal of Polymer Science Part A*, **1996**, 34, 207-216	2.5	33
29	Latex interpenetrating polymer networks: From structure to properties. *Polymers for Advanced Technologies*, **1996**, 7, 247-256	3.2	23
28	Organic-inorganic character of plasma-polymerized hexamethyldisiloxane. *Journal of Applied Polymer Science*, **1996**, 62, 2147-2154	2.9	31
27	Hexafluoropropylene plasmas: Polymerization rate-reaction parameter relationships. *Polymer Engineering and Science*, **1996**, 36, 2542-2549	2.3	22
26	A polytetrafluoroethylene filled ultra-high molecular weight polyethylene composite: Mechanical and wear property relationships. *Polymer Engineering and Science*, **1995**, 35, 1785-1794	2.3	5
25	Surface modification of drawn gel-cast ultra-high molecular weight polyethylene films. *Journal of Adhesion Science and Technology*, **1995**, 9, 1193-1208	2	11
24	Plasma polymerization of hexafluoropropylene: Film deposition and structure. *Journal of Applied Polymer Science*, **1995**, 56, 615-623	2.9	36
23	The ductile-to-quasi-brittle transition of particulate-filled thermoplastic polyester. *Journal of Applied Polymer Science*, **1994**, 52, 255-267	2.9	37
22	Blend structure of commingled plastic from recycled polyethylene and polystyrene. *Journal of Applied Polymer Science*, **1994**, 52, 301-314	2.9	4

21	Mechanical properties of commingled plastic from recycled polyethylene and polystyrene. *Journal of Applied Polymer Science*, **1994**, 52, 315-327	2.9	3
20	Surface modification of UHMWPE fibers. *Journal of Applied Polymer Science*, **1994**, 52, 1785-1795	2.9	47
19	Wettability and flotation of etched ultra high molecular weight polyethylene fibres. *Polymer*, **1993**, 34, 3421-3427	3.9	8
18	Adhesive properties and failure of etched UHMW-PE fibres. *Journal of Materials Science*, **1993**, 28, 4718-4724	4.3	18
17	Mechanical properties and failure of etched UHMW-PE fibres. *Journal of Materials Science*, **1993**, 28, 4153-4158	4.3	22
16	Relationship between surface properties and adhesion for etched ultra-high-molecular-weight polyethylene fibers. *Composites Science and Technology*, **1993**, 48, 151-157	8.6	37
15	Morphology and mechanical properties of fibers from blends of a liquid crystalline polymer and poly(ethylene terephthalate). *Journal of Applied Polymer Science*, **1992**, 44, 1531-1542	2.9	28
14	Hierarchical structure in LCP/PET blends. *Journal of Applied Polymer Science*, **1991**, 43, 157-173	2.9	40
13	A water transport model for the creep response of the intervertebral disc. *Journal of Materials Science: Materials in Medicine*, **1990**, 1, 81-89	4.5	17
12	Rubber-modified polystyrene from multistage latexes: Rheological and physical properties. *Journal of Applied Polymer Science*, **1990**, 40, 1583-1599	2.9	6
11	Microstructure of polyacrylate/polystyrene two-stage latices. *Polymer*, **1989**, 30, 416-424	3.9	33
10	Power law relaxation in an interpenetrating polymer network. *Colloid and Polymer Science*, **1989**, 267, 1002-1006	2.4	5
9	Elastomeric latex domain-interpenetrating polymer networks: Physical and rheological properties. *Polymer Engineering and Science*, **1989**, 29, 824-834	2.3	19
8	Elastomeric Multiphase Systems Consisting of IPN-Domain Latex Particles. *Polymer-Plastics Technology and Engineering*, **1987**, 26, 271-311		2
7	Elastomeric domain-type interpenetrating polymer networks. *Journal of Applied Polymer Science*, **1987**, 33, 2529-2547	2.9	23
6	Polymer/Polymer Composites Consisting of Interpenetrating Network-Domain Latex Particles. *Journal of Elastomers and Plastics*, **1986**, 18, 136-146	1.6	3
5	Capillary extrusion of elastomeric emulsion crosslinked interpenetrating networks. *Polymer Engineering and Science*, **1985**, 25, 257-263	2.3	10
4	Properties and structure of elastomeric two-stage emulsion interpenetrating networks. *Polymer*, **1985**, 26, 1359-1364	3.9	22

3	Electron beam radiation damage to organic inclusions in ice as an analytical tool for polymer science. *Journal of Electron Microscopy Technique*, **1985**, 2, 589-596		11
2	Cyclodextrin-based macroporous monoliths: One-pot oil-in-oil emulsion templating and adsorption. *Journal of Polymer Science*,	2.4	3
1	Porous polycaprolactone and polycarbonate poly(urethane urea)s via emulsion templating: Structures, properties, cell growth. *Polymer Chemistry*,	4.9	2